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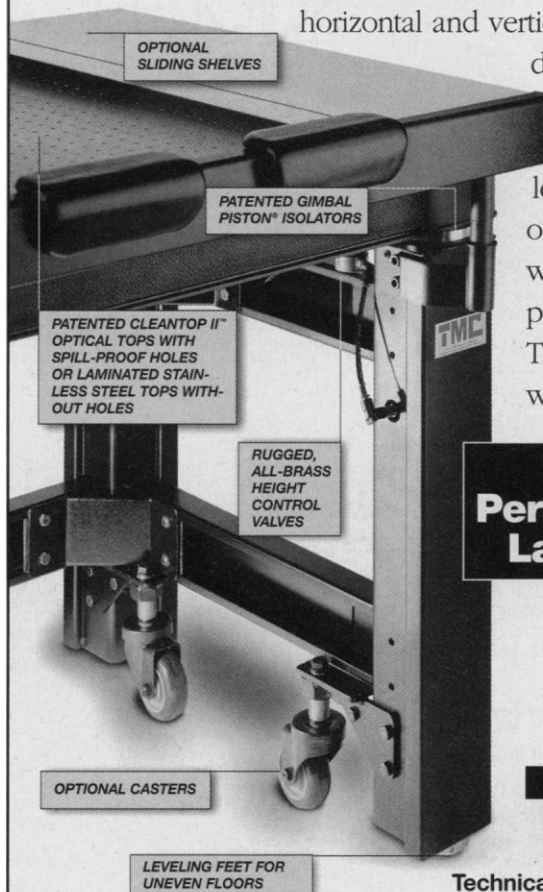
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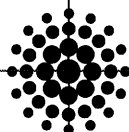
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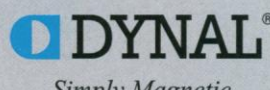
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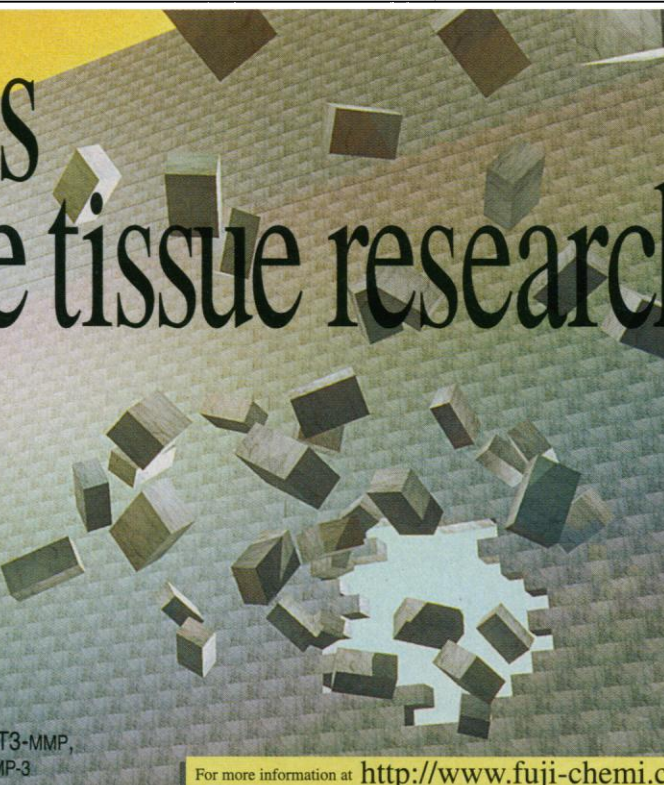
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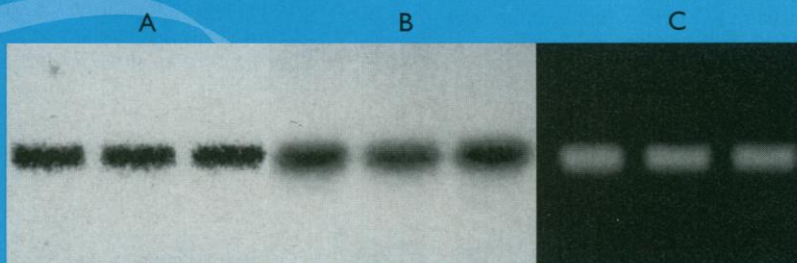
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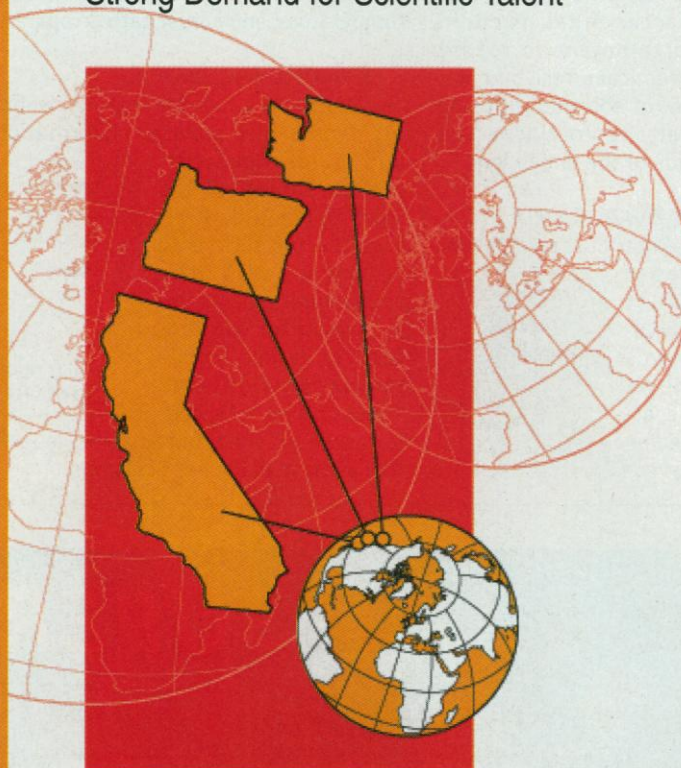
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WEST COAST CAREERS

If you're a life scientist with excellent skills and you like the idea of living on the West Coast, you can expect California corporations to come calling. As a major center of the American biotechnology industry, the state traditionally has a high demand for life scientists. Today, with unemployment at near-record lows in the state, life science firms find it more difficult than ever to fill key positions in research and development. The situation shows no signs of changing soon. Projections by the Labor Market Information Division of California's Employment Development Department suggest that the number of life scientists needed by companies in the state will grow by 28.5 percent between 1996 and 2006. The figures indicate that demand for managers of scientific teams will rise even more, by 56.9 percent over the same period.

Not every life scientist can expect to benefit from the tight labor market in the state. Companies emphasize that they offer positions only to individuals who possess excellent scientific credentials. Skills in bioinformatics and medical informatics have particular cachet with industry. And while firms have a large choice of individuals trained solely in molecular biology, a combination of molecular biology training

with an emphasis on protein chemistry, computational chemistry, or proteomics has strong appeal. Corporations also seek candidates who can demonstrate their ability to participate in projects that involve plenty of teamwork.

When they identify the life scientists they want, California companies are prepared to go the extra kilometer to persuade them to sign them on. Several offer their scientists stock options as soon as they join the firm. Companies often provide relocation help far beyond the usual transportation and moving expenses. Because of the high cost of housing in California, employers frequently refer new hires to real estate agents, steer them to suitable rental properties, or find creative ways to provide assistance for down payments on houses. And increasingly, life science corporations help recruits' spouses or significant others to find jobs, thus overcoming a common barrier to relocating.

Here, we discuss the tight job market for life scientists in California, and the ways in which job seekers can benefit from it. We talk to an academic career guidance officer and to representatives of three companies in the market for highly skilled life science talent.

Strong Demand for Scientific Talent

Low unemployment and high living costs make it difficult for Californian companies to attract life scientists. Here's how job seekers with the best credentials can benefit from the situation.

by Peter Gwynne

Amgen / Élan Pharmaceuticals, Inc. /
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SAN FRANCISCO, California: "The strongest influences for an individual making the choice of a scientific career tend to center on three areas: professional opportunity, geography, and personal relationships," says Michael Alvarez, director of the Career Center at the University of California, San Francisco. So life science companies in California are working hard to emphasize the career benefits that they offer recruits, to highlight the advantages and reduce the disadvantages of living in the state, and to help smooth the way for significant others to remain with recruits.

The Bay Area has plenty to offer life scientists in terms of career opportunities. New companies in the area spun off from academic research departments work at the extreme cutting edge of biotechnology. In addition, says Alvarez, "San Francisco is a wonderful, culturally diverse city." On the other hand, he continues, "it's very difficult to buy a new home. The costs are outrageous. I know a couple of students who turned down solid offers from Bay Area companies to go to other locations with a lower cost of living for roughly the same salary."

Local life science companies are fighting back with canny marketing. "A company is really only as good as the scientific talent and fresh ideas that it can bring in," says Alvarez. "That's why firms are recognizing the value of forming relationships with universities. If companies spend a few thousand dollars to establish a presence on our campus and build brand recognition in the minds of the students, it saves them up to a hundred thousand dollars to hire search firms later to find specific talents." Ambitious science students can take advantage of that corporate presence to make contact with companies of interest to them at early stages in their academic lives.

Despite the tight market for life scientists, Californian companies have tough criteria for their recruits. They insist on scientific aptitude and a well-developed expertise in a specific subdiscipline. They also expect "an appreciation for science as a business," says Alvarez. "To be well-versed in science and the fundamentals of business is the best way to be recognized. Scientists who can only interact within their own world will not be successful in the life science industry."

Michael Alvarez



"...firms are recognizing the value of forming relationships with universities."

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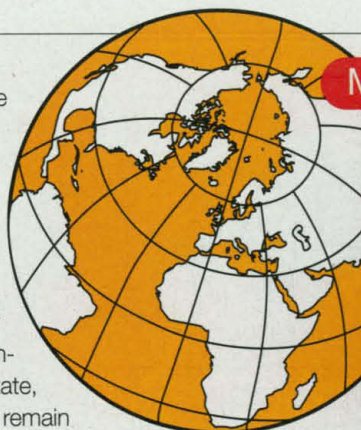


Michael Yoon



"An important personal characteristic sought is the ability and willingness to appreciate a diversity of ideas."

Élan Pharmaceuticals, Inc.



SOUTH SAN FRANCISCO, California: Created in August 1998 when Irish company Élan plc acquired Athena Neurosciences, Neurex Corporation, and Carrick Laboratories, Élan Pharmaceuticals, Inc. aims to discover, develop, and commercialize products related to neurology, acute care, and pain management. "We're a hybrid of a traditional pharma and a biotechnology company. We use biotechnology methods to create therapeutic products," says Michael Yoon, director of strategic staffing and organizational development. "We're about 700 strong in our San Francisco facilities. In the past 14 months we've added on 150 new people."

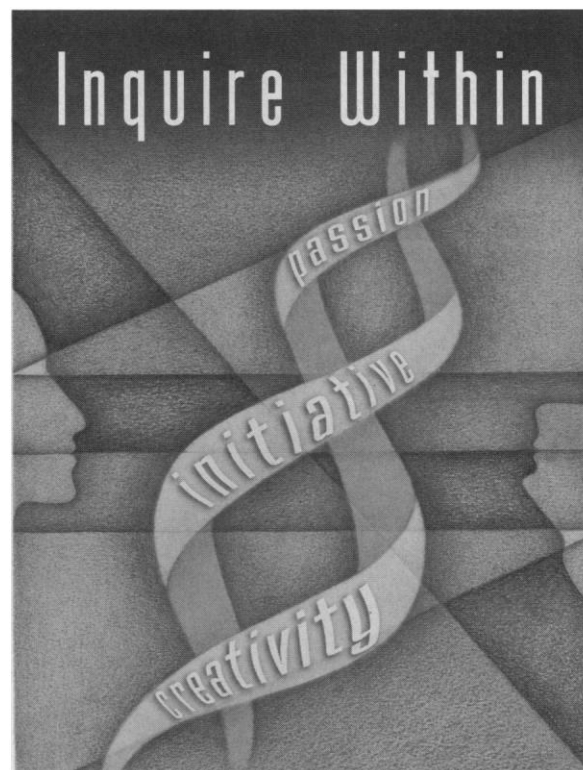
The recruits come from several backgrounds. "For the biotechnology segment of the organization, we look at people who have not just been involved in molecular biology details, but who are oriented toward understanding overall mechanisms. Because of our needs, we consider M.D.'s and Ph.D's at relatively early stages in their careers," says Yoon. "In our recruiting efforts, we pull in scientists who specialize in organic chemistry, cellular and molecular biology, or pharmacology." The company seeks recruits with varying degrees of industrial experience. "In the manufacturing as well as sales and marketing area, we're looking more for the experience level," Yoon continues. "In research, it's more: 'What have you done lately?'"

Élan Pharmaceuticals finds it challenging to attract the scientists it needs. The Bay Area is a hotbed of biotechnology firms. Thus, the company must compete with numerous well-established competitors to attract the best-qualified life scientists to the West Coast. In addition, the high cost of housing and California's extremely low rate of unemployment make the region a difficult sell.

To encourage top talent to sign on, Élan has taken three initiatives. First, it pays scientists competitive salaries and, if appropriate, includes relocation packages to address the Bay Area's high cost of housing, and to help find positions for spouses. Second, it gives all recruits stock options that mean something, says Yoon. "Many smaller biotechnology companies give large stock option grants," he adds. "However the stock value may be questionable." Third, Élan prides itself on a developing corporate culture. It emphasizes individual scientists' responsibilities in multi-functional aspects of their projects. "Scientists don't just do research and throw it over the fence," Yoon explains. "Scientists may be required to participate in business development and project teams. We try to keep the beneficial aspects of the structure of the large pharmas without the bureaucracy."

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A postdoctoral fellowship is available in the area of protein design for tumor targeting in the laboratory,

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Study novel ligands/receptors with therapeutic value and their signaling pathways with specific interest in cytokine receptor biology. The successful candidate will have a background in molecular and cellular biology with a strong publication record. Expertise in ES cell technology would be ideal. *See Nature* 369, 533 (1994); *Science* 265, 1445 (1994); *PNAS* 92 5292(1995); *J. of Experimental Medicine* 183, 651 (1996) and the Hedgehog signaling pathway (see *Nature* 384, 129 (1996), *Nature* 391, 90 (1998); *PNAS* 95:13630 (1998); *Current Biology* 9:76 (1999). **Manager: Dr. Frederic de Sauvage. Job Code: SCI1198**

As part of the Molecular Department team, this postdoctoral fellow will use genomic strategies to study the function of novel secreted proteins and receptors of potential therapeutic value. This will include establishing suitable models for the study of human disease, united with gene expression analysis using DNA microarrays. Experience in molecular biology and/or genomics, and cellular biology would be an advantage. **Manager: Dr. Victoria Smith. Job Code: SCI200**

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Relative to the third initiative, what does the company seek in potential employees? Beyond possessing excellent scientific credentials, "recruits must be collaborative people, and adept at two-way communication," Yoon says. "An important personal characteristic sought is the ability and willingness to appreciate a diversity of ideas. These are aspects of what makes a job fun and different from other environments."

THOUSAND OAKS, California: "There aren't any large pharmaceutical companies on the West Coast," says Sherry Dolkart, manager, staffing at Amgen. "That makes it extremely difficult to recruit scientists, as Amgen has become a biopharmaceutical organization. We are looking to attract people with pharmaceutical experience. So they have to be relocated."

The company, which focuses on genomics, cancer, and neuroscience, has expanded rapidly. "We hired about 900 people last year, to bring our total to over 4,500," says Dolkart. "We still need people. We're mainly looking for scientists with skills in small molecule chemistry, cancer therapy research, neuroscience, and gene therapy. We are targeting multiple hires in our chemistry department. We are also looking for post-docs for this group."

Amgen generally seeks life scientists outside California. And like other life science companies in the Golden State, it has two strikes against it: California's high cost of living, and the fact of dual careers within families. As a result, says Dolkart, "it's a candidate's market across the pharmaceutical industry. If you have good qualifications, you have more than one choice of jobs."

The company has set up several specific tools to attract its highest-rated recruits. "We have on-site day care and a workout facility," Dolkart continues. "We allow everyone in Amgen to participate in our stock option program." The company puts particular emphasis on helping the roughly 50 percent of recruits who arrive with significant others who themselves need to find new jobs. One individual in human resources works on that issue full-time.

At least as important, Amgen emphasizes its more intangible attractions. "We have come up with a very entrepreneurial work environment," says Dolkart. "If you're dedicated to your science, you'll find dedicated scientists to work with." Amgen recruiters also emphasize the opportunity to participate in the company's growth. "We have various late stage drugs in the pipeline," says Dolkart. "I think that candidates who have interviewed with us know that they can make a difference." She adds that Amgen is family friendly and is located in an aesthetically attractive part of Southern California.

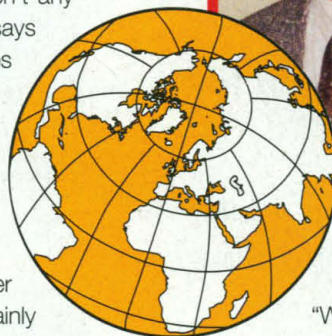
Of course, Amgen has high expectations of the life scientists it recruits. "Be very good at your science," advises Dolkart. "Be prepared to work within a team; don't look to be individually autonomous. Enjoy collaboration. And be clear about your commitment."

Joel Martin



"This is really the hottest place on Earth for creativity and entrepreneurship."

Quantum Dot



PALO ALTO, California: "We've got a pretty eclectic bunch," says Joel Martin, president and CEO of Quantum Dot Corporation. "We have life scientists with experience in immunology, gene chips, and PCR technology, and we have an extensive chemistry department with scientists who have done a lot of diagnostic work, as well as inorganic chemists. We're also applying materials science to biotechnology."

That variety of scientific expertise stems from the technology for which the company is named. Developed at the Lawrence Berkeley Laboratory, M.I.T., and the University of Melbourne, quantum dots are tiny particles, about one ten-millionth of an inch in diameter, that enable simple solutions to biological detection problems in such areas as genetic analysis, drug discovery, and disease diagnosis. Quantum Dot Corp. holds exclusive rights to the particles. It plans to introduce its first products shortly.

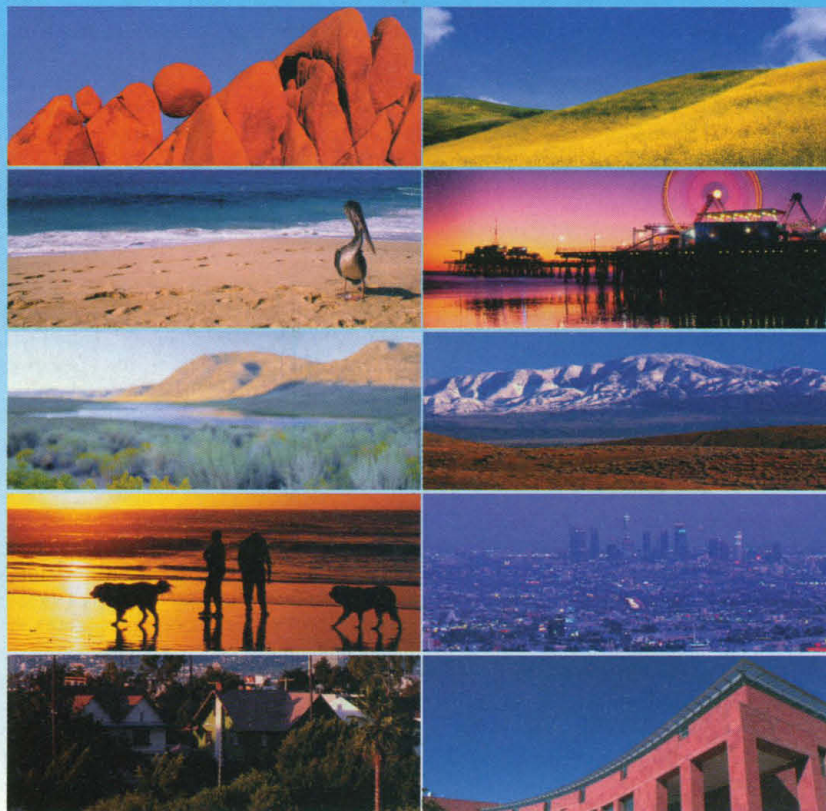
In contrast with the other companies interviewed for this feature, Quantum Dot has relatively little difficulty recruiting the life scientists it needs. "Having a couple of papers on our technology published in *Science* straight away generated a lot of interest among both customers and potential employees," explains Martin. "It's important to have a technology that people can see and say: 'Wow!'"

The company's location in Silicon Valley provides its own attraction for recruits. "This is really the hottest place on Earth for creativity and entrepreneurship," says Martin. "We can do things faster here than anywhere else. All the infrastructure is here. Many of our collaborators are just five minutes away. And the universities are powerhouse drivers." The only disadvantage that Martin sees is the area's high cost of living.

Quantum Dot currently has 23 employees, and plans to double that number in the next few years. It seeks life scientists at the Bachelor's, Master's, and doctoral levels, and takes extreme care over its recruitment. "I'm extremely proud of the team we have here," says Martin. "Taking the time and really putting the effort into getting the right people is important." ■

For further valuable career features, go to www.scienceonline.org, click on **Science Careers**, then click on **Advice and Perspectives**.

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We currently have an opening for a highly motivated **Research Associate** to be involved in cloning and construction of recombinant and baculovirus expression vectors. Responsibilities will include growth/maintenance of insect cell culture, establishing/maintaining a cell culture freezer bank, optimization of expression and development of new expressions technologies.

We require a BS/MS degree in Molecular Biology Life Sciences and 5 years of relevant laboratory experience. Must have background in cloning and expression in baculovirus insect cell systems, familiarity with sequence analysis software (GCG) and oligo design programs and demonstrated expertise in standard Molecular Biology techniques such

as PCR, cloning, Northern, Western, etc. Must also possess strong communication skills, a commitment to research and the ability to work independently. We prefer related industrial experience.

You can also expect the best from the city of Thousand Oaks. Amgen's Southern California location will put you within easy access of everything from sandy beaches to snow-capped mountains, as well as all the cosmopolitan advantages of Los Angeles. Yet you'll be far enough removed so your family can also enjoy quiet residential living in a community that is rated among the safest in America.

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UC DAVIS *Opportunities in genomics*

The University of California, Davis, is establishing the UC Davis Genome Center through a major campuswide initiative in genomics. The new center is part of a broader campus commitment to build on existing strengths in the life sciences and to establish an internationally recognized program in genomics research. The center will:

- involve faculty scientists from the School of Medicine, School of Veterinary Medicine, College of Agricultural and Environmental Sciences, Division of Biological Sciences, Division of Mathematics and Physical Sciences, and College of Engineering
- be co-located with programs in molecular medicine, pharmacology, and biomedical engineering in a new 200,000-sq.-ft. building that includes a modern mouse vivarium, small-animal imaging facility, and genomics research core facility
- provide research space and administrative support for 25 new state-funded faculty positions in genomics (18) and in bioinformatics and computational biology (7). Additional recruitments in these areas are expected in departments throughout the campus.

Director, UC Davis Genome Center

UC Davis invites applications and nominations for the founding director of the UC Davis Genome Center. The director will provide leadership in faculty recruitment in the center as well as in development of academic research and teaching programs in genomics across the entire campus. We seek a director with a vigorous research program and sufficient breadth of experience and interests to provide intellectual leadership for genomics and bioinformatics programs in medicine, veterinary medicine, agriculture, and fundamental life sciences. The director's research could be in any area of genomics, but a focus in functional or comparative genomics is desired. The director will be appointed at the professorial level in an appropriate academic department in one of six schools, colleges, or divisions. The position will remain open until filled. For full consideration, applicants should send a letter of interest, a curriculum vitae, and the names and addresses of at least five references by January 15, 2000, to: Dr. Larry Hjelmeland, Chair, UC Davis Genome Center Director Search Committee, c/o Dean's Office, Division of Biological Sciences, University of California, Davis, CA 95616.

Associate Director for Bioinformatics, UC Davis Genome Center

UC Davis invites applications and nominations for the founding associate director for bioinformatics, under the director of the UC Davis Genome Center. He or she will provide leadership in the recruitment of bioinformatics faculty members, development of a core bioinformatics facility, and development of academic research and teaching programs in bioinformatics across the entire campus. We seek an associate director with a vigorous research program and sufficient breadth of experience and interests to provide intellectual leadership in bioinformatics and computational biology in a wide range of genomics. The associate director's research could be in any area of bioinformatics or computational biology. The associate director will be appointed at the professorial level in an appropriate academic department in one of six schools, colleges, or divisions. The position will remain open until filled. For full consideration, applicants should send a letter of interest, a curriculum vitae, and the names and addresses of at least five references by January 15, 2000, to: Dr. Dan Gusfield, Chair, Associate Director for Bioinformatics Search Committee, c/o Dean's Office, College of Engineering, University of California, Davis, CA 95616.

Chair, Medical Pharmacology and Toxicology

The UC Davis School of Medicine seeks a chair of medical pharmacology and toxicology. The chair will provide prominent leadership in the development and enhancement of educational and research programs. He or she will be responsible for strengthening the Department of Pharmacology and Toxicology with the addition of five new state-funded faculty positions and new research space in close association with the UC Davis Genome Center and the Division of Biomedical Engineering. Preference will be given to candidates who investigate the genomic and molecular basis of therapeutics in cancer, infectious diseases, or neurological disorders, emphasizing the mouse as a model system. The successful candidate will be a recognized scientist at the associate- or full-professor level, or equivalent, and must possess an M.D., Ph.D., M.D./Ph.D., or equivalent. The position includes an FTE in the School of Medicine and a negotiated resource package. The position will remain open until filled. For full consideration, each applicant should send a letter describing his or her administrative, teaching, and research background; a curriculum vitae; and the names and addresses of five references by January 15, 2000, to: Dr. Larry Hjelmeland, Chair, Search Committee for Chair of Pharmacology and Toxicology, c/o Dean's Office, School of Medicine, Medical Sciences 1-C, University of California, Davis, CA 95616.

Faculty Positions in Plant Genomics

The College of Agricultural and Environmental Sciences at UC Davis invites applications for two faculty positions in plant genomics. The campus offers faculty appointees an exceptional research environment and the opportunity to teach highly motivated undergraduate and graduate students in one or more interdepartmental majors and graduate programs. These professorial positions are open at the assistant, associate, and full levels, and the appointments will reside in an appropriate academic department to be determined in consultation with the successful candidate. Professorial positions have responsibilities for teaching, advising, and research (in the Agricultural Experiment Station). Candidates must have a Ph.D. in an appropriate field. Applicants should submit a curriculum vitae, transcripts (if within five years of graduation), a statement of research and teaching experience, and the names and addresses of three to five references to: Chair, Plant Genomics Search Committee, c/o Dean's Office, College of Agricultural and Environmental Sciences, University of California, Davis, CA 95616. The positions will remain open until filled, but to ensure consideration applications must be received by December 1, 1999.

Comparative Genomics California agriculture is characterized by a diverse array of crops. The College seeks a plant geneticist with experience in comparative genomics and the proven ability to utilize information and biological resources from model species to make genetic inferences in crop plants. Possible areas of interest include genome evolution, structural basis of allelic variation within species, or phenotypic consequences of genome rearrangements.

Functional Genomics The availability of vast amounts of genetic information will have a significant impact in understanding fundamental plant biochemistry and the improvement of both quality and agronomic traits in crops. The research challenge will be to elucidate the function of specific genes and the interactions of large numbers of genes to confer phenotype. The College seeks a plant geneticist with experience in functional genomics and the proven ability to utilize genome sequence information to specify and/or manipulate agriculturally important traits. Possible areas of interest include plant/environment or plant/microbe interactions in the rhizosphere, environmental stress responses, and metabolism or reproductive biology, including seed and fruit development.

Further information about genomics at UC Davis is available at <http://genomics.ucdavis.edu>

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- **Product and Packaging Engineering • IE/Manufacturing Process Engineering**
- **Marketing • Mechanical Engineering • Microarray Technology**
- **Microfluidics Design and Development Engineer/Scientist • Microfluidics • Molecular Biology**
- **Organic Chemistry • Process Chemistry • Production Engineering**
- **Robotics/Lab Automation Systems Development • Software Development (VB, C++)**

Motorola BioChip Systems offers highly competitive compensation and significant opportunities for professional growth and recognition, as well as attractive locations in both the Phoenix and Chicago areas. Please apply online at: **employment.motorola.com** (please reference **Science** when applying online). For more information visit **www.motorola.com/biochipsystems**. Motorola is an Equal Opportunity/Affirmative Action Employer.



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SENIOR SCIENTIST

ST-0000*

The U.S. Geological Survey (USGS) is seeking candidates for the full-time position of Senior Scientist. *This position is described as interdisciplinary and may be filled in one of the following series: physical scientist, geophysicist, geologist, hydrologist, chemist, biologist, or cartographer. Salary range for this position is \$108,305 to \$125,900 per annum which includes locality pay. The geographic location and locality pay will be determined when selection for the position is made.

The incumbent serves as a senior scientific leader in formulating and guiding a multi-disciplinary attack on scientific problems in frontier areas of critical importance to major national programs. He/she plans and conducts research studies of such fundamental and widespread interest and extraordinary difficulty that there have been attempts by highly competent scientists to explore the area to gain fundamental understanding of relevant processes and phenomena. Research activities require the development of new hypotheses, concepts and techniques that lead to the major modification of current theory.

Individuals interested in this position should contact the Human Resources Office at (703) 648-6131 to receive a complete vacancy announcement which describes job requirements (including Knowledges, Skills, and Abilities (KSAs) required for the position), an application, and evaluation procedures. Applications (Optional Application for Federal Employment (OF-612), or resume) must be received at the address referenced below by November 30, 1999, and should reference ST-99-01. A Reference and Qualifications Analysis form and a narrative qualifications statement addressing the KSAs should also be submitted by the above date and will be used in the evaluation of candidates.

Applications can be mailed, faxed, or delivered in person. Regardless of the method of delivery, it is your responsibility to insure your application's successful conveyance. Faxed applications must not exceed 10 pages in length and must be received by 12:00 midnight on the closing date of the announcement. Mailed or hand delivered applications must be received by the close of business (4:30pm) on the closing date specified in the announcement.

U.S. Geological Survey, Personnel Staffing Service Branch, 601 National Center, Reston, Virginia 20192
FAX (703)648-4113

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U.S. citizenship is required

U.S. Geological Survey

POSTDOCTORAL BIOINFORMATICS

Two bioinformatics postdoctoral positions are available to analyze genomic sequence and develop software tools for genome process informatics and annotation.

The first position involves analysis of genomic sequence from several model genomes. The ideal candidate possesses a Ph.D. in molecular biology or biochemistry with 0-3 years of post-graduate experience and possesses the skills to use GCG as well as the outputs from blast searches and gene modeling algorithms. A working knowledge of UNIX is necessary and programming experience in Perl is desirable. The sequence analyses will be used to describe the features (genes, transposon, repeat elements, etc) of the sequence in comprehensive reports submitted to the Genbank and WWW.

The second position involves creating software tools for annotation of genomic sequence and extending an existing workflow information system. The candidate will also support and extend the existing suite of scripts used by the sequencing center. The ideal candidate will possess a Ph.D. in biology or computer science with 0-3 years post-graduate experience and significant cross-field experience (i.e. biologists must have done some programming, computer scientists must have some knowledge of biology). A working knowledge of UNIX, Perl, relational database fundamentals, and SQL is necessary.

For both positions we will consider outstanding motivated candidates with limited specific previous training. Please send CV and 3 letters of recommendation to:
Human Resources Department/BPDMC,



Cold Spring Harbor Laboratory
1 Bungtown Road,
Cold Spring Harbor, NY 11724
or e-mail: jobline@cshl.org

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Research Scientist III

In this challenging position, you'll design and execute experiments related to cell culture, virus infection, and protein expression, focusing on media development, lot consistency, infection conditions, cell scale-up, cell bank preparation, implementation of new technology for process monitoring/production, and preseed development. Additional responsibilities include providing support to GMP operations and technical training, and supervising junior team members.

The successful candidate will possess a BS/MS in Cell Biology, Virology, Chemical Engineering or a related field with a minimum of 11 years' experience, or a Ph.D. with 0-2 years' experience, including process development experience in cell culture, virus infection, and protein expression systems. In addition, we require hands-on laboratory experience in cell culture and virology, a proven process optimization track record, and the ability to independently design and execute experiments. You also must be able to multitask under time constraints and have excellent communication skills. Supervision experience and knowledge of GMPs preferred.

Wyeth-Ayerst offers competitive compensation and benefits programs including stock options, child-care subsidies, flex time, business casual Fridays, educational assistance and professional development programs. Please forward your resume with salary requirements to: **Wyeth-Ayerst, Reference OPSCI, P.O. Box 7886, Philadelphia, PA 19101-7886. Fax in fine mode to: (610) 989-4854. E-mail: jobs@RAMAIL1.wyeth.com (ASCII format, no attachments, subject: resume). Principals only. Equal Opportunity Employer, M/F/D/V.**

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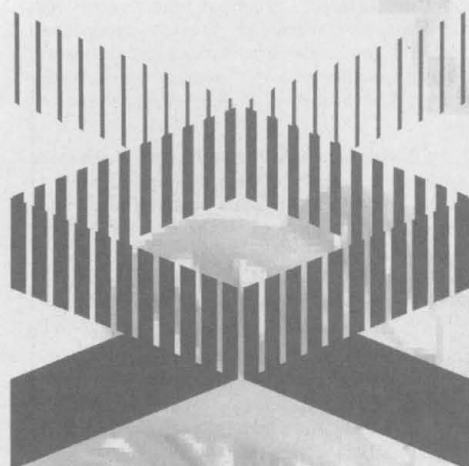
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Tenure-Track Investigator Positions in the National Human Genome Research Institute

The Intramural Research Program of the National Human Genome Research Institute (NHGRI) at the National Institutes of Health (NIH) in Bethesda, Maryland, announces an unparalleled opportunity to recruit a series of new tenure-track investigators. Five positions in four Branches are available for tenure-track scientists in any of the following broad areas of research:



- *Bench-to-bedside investigation of heritable disease*
- *Bioinformatics*
- *Developmental and regulatory pathways in the immune system*
- *Disease gene discovery among special and minority populations*
- *Genome analysis*
- *Genomic approaches to development*
- *Genetic analysis of complex biological systems in model organisms*
- *Molecular genetics of human disease*
- *Proteomics*

Successful applicants will join one or more of the following Branches:

- Genetic Diseases Research Branch (Robert Nussbaum, M.D., Chief)
- Genome Technology Branch (Eric Green, M.D., Ph.D., Chief)
- Genetics and Molecular Biology Branch (Jennifer Puck, M.D., Chief)
- Cancer Genetics Branch (Jeffrey Trent, Ph.D., Chief)

We seek to recruit outstanding scientists who are ready to pursue independent and multidisciplinary research programs and can take advantage of interactions with the highly collegial group of scientists within the NHGRI, the NIH Clinical Center, and the NIH campus as a whole. Investigators will be given space and resources needed to pursue a vigorous research program and will have access to core facilities that provide support for transgenesis and gene-targeting in mice, DNA microarray studies, FACS, confocal microscopy, computational genomics, and large-scale DNA sequencing. Extensive opportunities for patient-oriented research are also available.

Candidates must have a Ph.D. and/or M.D. or V.M.D. as well as comprehensive, advanced training and accomplishment in one of the targeted areas listed. Competitive salary and benefit packages are available. To initiate the application process, please send your curriculum vitae and an outline of your future research plans. Your application will not be considered complete until we also receive three letters of reference.

All materials should be sent to:

NHGRI Joint Search Committee
c/o Ms. Dana Jordan
NHGRI/NIH
49 Convent Drive, MSC 4431
Building 49, Room 2C72
Bethesda, MD 20892

Closing Date: December 1, 1999

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For more information, see: http://www.nhgri.nih.gov/Intramural_research

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CELL BIOLOGIST

The Discovery Research Division is seeking a Cell Biologist with at least two years of post-doctoral experience, to help determine the functions of newly identified genes. The initial focus will be in the areas of mucosal biology and inflammation. The qualified candidate should be familiar with current concepts in cell: matrix interactions, cell: cell adhesion, signal transduction, protein trafficking, subcellular structure, and gene expression. We seek an individual with initiative and independent thinking who can work in a collaborative, multi-disciplinary environment. Experience with confocal microscopy, epithelial cell biology, protein chemistry, or molecular biology would be advantageous. Ph.D. with two plus years of post graduate research in Cell Biology, Protein Chemistry, or Molecular Biology is essential. Industry or Pharmaceutical experience is preferred.

Job Number 99-0333

PHAGE DISPLAY/ ANTIBODY ENGINEERING

Immunex Corporation is seeking a research scientist to participate in the creation and development of therapeutic monoclonal antibodies. The successful candidate will possess a Ph.D. and several years of postdoctoral experience in the creation and screening of combinatorial phage display libraries, specifically in the area of affinity optimization and engineering of antibodies. An established publication record, the ability to work cooperatively in a group situation and excellent communication skills are required. **Job Number 99-0337**

CHEMINFORMATICS PROGRAMMER

The Department of Bioinformatics is seeking an experienced chemical information systems programmer to join our team in drug discovery. This individual will work closely with Bio-informatics, Biomolecular Screening and Discovery Research scientists to design and develop databases and query applications that will facilitate data capture and analysis from automated assay systems. Other duties include developing web-based and NT client query interfaces to general assay data repositories that will be used by the Discovery Research scientific staff. To meet these challenges, candidates will have had experience in computer programming, database design and administration, with experience in a chem-informatics environment required. Excellent written and oral communication skills are a must. Requires a professional possessing B.A. through Ph.D. in the physical sciences, computational biology, or related field. Exceptional programming skills (C, C++, Java, VB) and Oracle database programming experience is essential. Demonstrated experience with NT and UNIX operating systems, prefer familiarity with current cheminformatics packages is required.

Job Number 99-0336

In addition to the tremendously rewarding environment, you'll enjoy an exceptional compensation and benefits package. Please submit a resume (Immunex utilizes scanning technology) specifying the appropriate Job Number to: **Immunex Corporation, 51 University Street, Seattle, WA 98101. Fax: 206-621-1399 or e-mail: job-info@immunex.com.** For more information about Immunex, visit our Web site at:

www.immunex.com

Immunex is an equal opportunity employer committed to diversity.

UNIVERSITY OF CALIFORNIA, BERKELEY: BIOENGINEERING

THE UNIVERSITY OF CALIFORNIA, BERKELEY invites applications for tenure-track positions in BIOENGINEERING beginning 2000-01, at the ASSISTANT, ASSOCIATE, OR FULL PROFESSOR LEVELS. The positions are in the new Department of Bioengineering on the Berkeley campus, which has a joint graduate program at Berkeley and the University of California, San Francisco (UCSF), and plans a joint, inter-campus department between the two UC campuses.

Applicants should have (or be about to receive) a doctoral degree in engineering, or the biological or physical sciences with a clear relationship to bioengineering. The academic and research programs seeking faculty are tissue bioengineering with cell and molecular biology emphases, and bioinformatics with functional genomics and computational biology emphases. The positions include opportunities for involvement in relevant programs at UCSF and the Lawrence Berkeley National Laboratory (LBNL). Principal requirements for these positions are demonstrated excellence in research, and potential for excellence in teaching and leadership. Successful applicants will be expected to establish a quality research program and to teach both graduate and undergraduate courses in their general area of bioengineering specialty.

Applicants should send, by November 30, 1999, a resume, a selected group of publication reprints (5 or less), a short description of past research, a two- to three-page statement of future research plans and interests, and the names of three references to the address below. **APPLICANTS SHOULD REQUEST THEIR REFERENCES FORWARD LETTERS OF REFERENCE DIRECTLY TO THE SAME ADDRESS.** These letters will NOT be requested directly by the department.

Send materials to: Thomas F. Budinger, M.D., Ph.D., Chair, Department of Bioengineering, 459 Evans Hall #1762, University of California, Berkeley, CA 94720-1762. Applications postmarked after the deadline will not be considered. The University of California is an Equal Opportunity, Affirmative Action Employer.

CORVAS, a fast-paced biopharmaceutical company, is engaged in the design and development of next-generation therapeutic agents for the prevention and treatment of major cardiovascular, inflammatory and neoplastic diseases.

SENIOR MOLECULAR BIOLOGIST/cDNA CLONING

This position requires a PhD in molecular biology or biochemistry and extensive experience isolating cDNA clones using conventional, PCR-based, expression-based, or phage display methodologies. The successful candidate will be adept in a wide variety of molecular biology techniques. Experience with subtractive cloning technologies is preferred. Supervisory experience is desired.

SENIOR MOLECULAR BIOLOGIST/PHAGE DISPLAY

The successful candidate will have a PhD in molecular biology, biochemistry, or a related field with extensive experience using phage display technologies. Supervisory experience is a plus. Additional experience with ribosome display and/or nucleic acid libraries, as well as *in vitro* evolution methods, is preferred.

We also have positions available in the following areas:

Molecular Modeling/Computational Chemist – requires PhD.

QC Analyst – requires BS/MS plus HPLC & GMP experience.

Biochemist – requires BS/MS plus ELISA experience.

Molecular Biologist – requires BS/MS plus PCR & cDNA cloning experience.

We offer an attractive compensation package, equity participation, and a highly interactive and stimulating scientific environment. Please send/fax CV to Corvas, 3030 Science Park Road, San Diego, CA 92121, Attn: HR; Fax: (858) 455-0457. www.corvas.com EOE

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■ Senior Research Scientist II, Purification

This position in our Purification Development department will require that you apply your expertise in downstream processing to the purification of a wide variety of human vaccine intermediates with a focus on bacterial proteins and polysaccharides. You will also supervise and conduct process development, amenable to large-scale manufacturing, from the pre-clinical stage through clinical phases I, II and III. Experience and success in downstream processing of biologicals including a variety of modes of column chromatography and ultrafiltration is required. Considerable experience in purification and characterization of biologicals is essential, while knowledge of cGMPs, supervisory experience and characterization of macromolecules using techniques such as Western blot analysis, SDS-PAGE and HPLC is an asset. You must be able to work in a multi-disciplinary team and operate efficiently under the aggressive pace of new product development. A Ph.D. in Biochemical/Chemical Engineering, Biochemistry or related discipline and 5 years of post-doctoral experience is required.

■ Research Scientist I, Fermentation

This position will develop reproducible fermentation processes with limited supervision which can be scaled up and performed at pilot scale under GMP conditions. Develop and provide data and documentation to support process parameters. Evaluate and optimize growth parameters to maximize bacterial growth and productivity for vaccine candidates. Perform assays to characterize the fermentation process. Produce oral and written reports for both internal staff and for review by external regulatory agencies as required. Requirements include a BS in Microbiology or related field and 7 years of relevant experience or MS and 5 years of relevant experience; experience in colorimetric assays, SDS-PAGE, glucose analyzer, electrophoresis, sterile techniques, fermentation downstream process development and operating bench top and pilot scale fermenters and experience with BL-2 organisms.

■ Research Scientist I, Purification

As Scientist I in Purification Development you will report directly to the Purification Pilot Plant Supervisor and apply your expertise in downstream processing to the purification of a wide variety of human vaccine intermediates with a focus on bacterial proteins and polysaccharides. Experience and demonstrated success in downstream processing of biologicals using column chromatography and ultrafiltration at pilot or manufacturing scale is essential. Knowledge of cGMPs and familiarity with lab techniques for routine characterization of proteins are assets. Involvement with projects at various phases of development will require that you work effectively in multi-disciplinary teams and that you operate effectively under the aggressive pace of new product development. Requirements include a BS (plus 7 years' experience) or MS (plus 5 years' experience) in Biochemical/Chemical Engineering, Biochemistry, Chemistry or a related discipline.

■ Molecular Biology Research Scientist III

This person will apply molecular biology techniques in order to produce recombinant protein products at commercial scale using bacterial expression systems and will characterize recombinant strains in compliance with regulatory guidelines. Specifically, they will create new recombinant strains and improve existing strains for dependable, large-scale manufacturing of vaccine antigens, comparing and optimizing growth and expression of these strains in small-scale fermenters. Additional job responsibilities include characterizing vaccine antigen production strains at the molecular level utilizing existing assays and by creating new, molecular-based assays for more thorough analysis; documenting and validating new molecular assays for compliance with regulatory guidelines; producing oral and written reports for both internal staff and for review by external regulatory agencies as required. Experience and demonstrated success in the areas of recombinant DNA techniques in bacterial systems, strain construction and improvement in *E. coli* expression systems, molecular-based assay development, and small-scale fermentations are required. Communication skills and a cooperative, team-oriented spirit are required; this position will interface with fermentation and purification process development and the off-site research groups. Post-doctoral or industrial internship experience and familiarity with cGMPs are assets, and a solid understanding of microbial physiology is also desirable. A Ph.D. in Molecular Biology (or related discipline with a thesis in Molecular Biology) is required.

Wyeth-Lederle is located 30 minutes south of Raleigh, North Carolina, selected by Money magazine as one of the best places to live in America. Within a few hours drive, residents can enjoy the beautiful coast of North Carolina, or the majestic Blue Ridge Mountains. You'll also find great value in our generous compensation and benefits package, and we offer a non-smoking environment. Please send your resume, cover letter and salary history to: **Wyeth-Lederle Vaccines and Pediatrics, Human Resources Department, 4300 Oak Park, Sanford, NC 27330.** An Equal Opportunity Employer.



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Andrew and Caitlyn, pictured above, are the children of one of our employees.

Scientist Analytical Protein Chemistry

Tularik Inc. is a privately-held biopharmaceutical company dedicated to the discovery and development of novel therapeutic agents that regulate gene expression. The recent completion of our second, state-of-the-art research building on our campus in the San Francisco Bay Area has further increased our capacity to carry out leading-edge research and creative drug discovery. Our continued growth has created an excellent opportunity in our Biology department for a dedicated Scientist to make significant contributions to our drug discovery programs.

As the lead Protein Chemistry Scientist, you will be a member of our Biology Department and work in a highly collaborative environment with researchers in Biology, Drug Discovery and Structural Biology. Candidates must possess demonstrated experience utilizing analytical protein chemistry techniques along with hands-on experience using mass spectrometry to characterize protein sequence, post-translational modifications, and interactions of small molecules with proteins and peptides. You would run a fully-equipped, protein/peptide analytical laboratory with microbore HPLCs, peptide sequencers and an electrospray ion-trap mass spectrometer. A Ph.D. and post-doctoral experience is preferred.

Tularik offers productive and experienced leadership, employee stock options, a competitive salary and benefits package, and a collaborative and stimulating research environment that recognizes achievement. If you have expertise in Analytical Protein Chemistry, please submit your CV or resume to:

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Human Resources
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Research Scientist

We are expanding our research efforts within the cardiovascular area to include studies designed to gain a better understanding of the effects of pharmaceutical agents on renal physiology and function in various animal models. We are seeking a research scientist with a Ph.D. in Physiology, Pharmacology or a related discipline and 2+ years of postdoctoral experience in the area of renal physiology. Responsibilities include planning and executing animal studies to determine the effect of various agents on renal function and to identify the biochemical mechanisms underlying observed changes.

The successful candidate will be highly self-motivated, independent and possess a strong background in techniques used to study in vivo renal physiology. The ability to work with other scientists within an interactive/multi-disciplinary team environment and to contribute new ideas to the study of renal function and cardiovascular diseases across the life sciences effort is essential. Critical thinking, innovation and strong technical and communication skills are all required for this position. A record of prior accomplishments in the area of in vivo renal physiology is required.

Searle is the pharmaceutical sector of the Monsanto Company. This position is based in St. Louis. We offer a competitive salary and benefits package including tuition reimbursement and 401(k). For fastest consideration, please submit your resume to: **Staffing 99-1870, 700 Chesterfield Parkway, Mail zone: BB5B, Chesterfield, MO 63198.** EEO/AA Employer M/F/D/V. Please visit our website at www.searle-ican.com

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SEARLE



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Difference.**

DIRECTOR

STRUCTURAL BIOLOGY NMR FACILITY

The Wadsworth Center invites applications for Director of its Structural Biology NMR facility.

We seek an established scientist with an outstanding research program applying NMR to fundamental problems of biomolecular structure and function. The NMR facility is equipped with Bruker 500 and 600 MHz Avance spectrometers. The successful candidate will join an existing group of structural biologists in the fields of NMR, x-ray crystallography, and cryo-electron microscopy.

The Wadsworth Center is a participating institution in the New York Center for Structural Biology, a state-of-the-art facility with multiple high-field instruments scheduled to open in 2000 in New York City. Interested candidates should submit a resume, summary of past work and a research plan, and the names of three references by December 15, 1999 to:

Dr. Joachim Frank
NMR Search Committee
Wadsworth Center
Empire State Plaza, Box 509
Albany, NY 12201-0509

The Wadsworth Center is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.

PHARMACOLOGIST

*Chemopreventive Agent Development
Research Group
Division of Cancer Prevention, National
Cancer Institute, NIH*

**GS-0405-14; Vacancy
Announcement #: NCI-99-2730**

The Chemopreventive Agent Development Research Group, DCP, NCI plans, develops, and directs an extramural preclinical agent discovery, efficacy, and safety testing program and a clinical testing program for the chemoprevention of cancer, which can be defined as the use of natural or synthetic agents administered to prevent, inhibit, or reverse one or more stages of carcinogenesis. The Pharmacologist in the Chemopreventive Agent Development Research Group will be responsible for: (1) managing and directing pharmaceutical support contracts related to agent acquisition, synthesis, formulation, characterization, and supply of preclinical and clinical finished agents, (2) chemistry, manufacturing, and control issues related to Investigational New Drug applications to the FDA, (3) other preclinical and clinical agent development activities in his/her additional areas of professional competence, such as in the areas of preclinical toxicology and clinical phase 1 pharmacokinetics, and (4) liaison management with the pharmaceutical industry. Candidates for this position are required to have a Ph.D., Pharm.D., D.V.M., Sc.D. or equivalent training and general knowledge and experience in the field of pharmacology, medicinal chemistry, or pharmaceutical science and specific knowledge and experience in research in one or more areas of pharmacology, pharmaceutical science, regulatory affairs, toxicology, drug development, carcinogenesis, and/or other relevant scientific disciplines that included at least 30 semester hours in chemistry and physiology, and 12 semester hours in pharmacology. The salary range will be from \$68,570 to \$89,142.

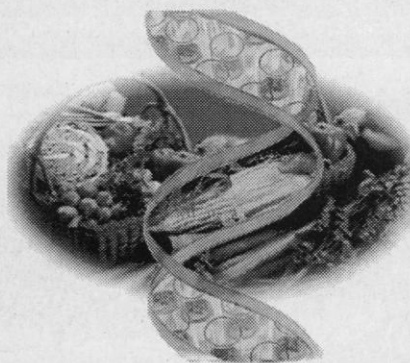
To apply for this position, please address the following rating criteria: (1) Knowledge of pharmacology and the scientific disciplines appropriate for the position; (2) Ability to communicate orally and in writing; (3) Ability to plan and manage research programs involving complex administrative and scientific issues; (4) Ability to review and evaluate scientific studies related to program objectives; (5) Ability to interact productively with other scientists.

Please submit your application/resume to: NIH/National Cancer Institute, Human Resource Management & Consulting Branch, EPS, Suite 550, 6120 Executive Blvd., Rockville, MD 20852-7211. For further information regarding application procedures, you may call the staffing office at 301-402-2789. Applications must be postmarked no later than December 3, 1999.

*NIH is an Equal Opportunity Employer.
Applicants must be US Citizens.*

Novartis Agricultural Discovery Institute Inc. (NADII)

is one of the largest single fully funded research endeavors dedicated to agricultural genomics. We apply cutting-edge biotechnology to match genes with traits and provide advanced technologies that can be used widely in agricultural research for the development of gene-based products. We currently seek a number of exceptional individuals to join NADII's growing team:



Natural Products Biochemistry

The successful candidate will be an expert in secondary metabolism. Experience in discovering, purifying, and elucidating the structure of secondary metabolites with biological activity is desired. An understanding of genomic approaches to identify genes that control the synthesis, compartmentation, and conjugation of secondary metabolites is expected. Candidates must have a Ph.D. and 2+ years' postdoctoral experience. Job Code: NPB/SB-SCI

Plant Genomics

Postdoctoral Position

A postdoctoral position is available immediately in the area of integrated, microfabricated device technology based analysis of biopolymers with an application focus in plant genomics. Work involves development of microfluidics platforms, lab-on-a-chip technology, system integration and chemistries. The laboratory is equipped with state-of-the-art facilities and provides a highly challenging and supportive environment. Enthusiastic candidates with strong background in separation science, especially in capillary electrophoresis and microfabrication/microfluidics technology are encouraged to apply. Experience in molecular biology is a plus. Job Code: PDOC/AG-SCI

Genome Mapping

Research Associate

Research Associate position in genome mapping requiring a BS or MS degree in related field. Candidates should be knowledgeable in genetic and physical mapping. Besides routine molecular biology lab skills, experience is required in most of the following areas: molecular markers, positional cloning, construction of large insert libraries (YAC, BAC, or PAC), and library clone fingerprinting. Experience in genomics data analysis is highly desirable. Qualified applicants outside plant sciences will be considered. Job Code: RA/RW-SCI

Promoter & Gene Discovery Research Associate

Successful candidate will have a strong interest in promoter and gene discovery in plants. Requires BS or MS in molecular biology with 2+ years' experience in RNA/cDNA techniques. Background in plant molecular biology preferred. Job Code: RA/PB-SCI

Functional Genomics

Postdoctoral Associate

Postdoctoral positions are available, along with positions at the BS and MS levels, which focus on the application of genomics technologies (sequence analysis, gene deletion, differential gene expression, proteomics, metabolomics, etc.) to understanding the molecular mechanisms underlying complex developmental processes in filamentous fungi of economic importance. The initial focus will be on the processes of pathogenesis and reproduction (both sexual and asexual). Job Code: PDOC/OY-SCI

Virology

Postdoctoral Associate

A postdoctoral position is available to study host-virus interactions and to develop vectors to study plant gene function. Studies of host-virus interactions will use integrated genetic and reverse genetic approaches to identify host genes involved in plant viral pathogenesis. Analysis of plant gene function will utilize plant viruses or other methods to overexpress or silence plant genes. This position requires a Ph.D. with an emphasis on plant virology, gene silencing, recombination or related research. Job Code: PDOC/SW-SCI

NADII operates in a highly collaborative manner with strong resources in structural genomics, RNA dynamics, protein dynamics, metabolite dynamics, bioinformatics, engineering, imaging, structural biology, and molecular interactions.

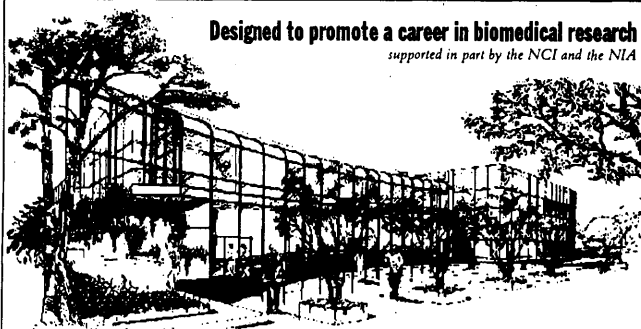
All positions indicated above require excellent computer, communication and organizational skills and the ability to work in a team environment.

NADII offers excellent compensation and a great benefits package, including a 401(k) plan. For immediate and confidential consideration, please send curriculum vitae, names of three references, salary history and requirements to: Novartis Agricultural Discovery Institute, Inc., HR Dept/(Job Code), 3115 Merryfield Row, Suite 100, San Diego, CA 92121-1102. Fax: (858) 812-1096. For additional information, please visit our website at www.nadii.com. EOE

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The Department of Plant and Microbial Biology at the University of California, Berkeley,

has an opening for an
Assistant Professor (tenure track)
or **Associate Professor (tenured)** position
(nine-month appointment)
starting July 1, 2000.

Applications are invited from outstanding individuals whose research focuses on study of the biology of bacteria or archaea. A variety of research approaches including molecular biology, physiology, biochemistry, and phylogenetics are appropriate. Teaching responsibilities will include a microbial biology lecture or laboratory course. The successful candidate, who will hold a faculty position in the University of California as well as an appointment in the Agricultural Experiment Station, is expected to establish a strong and independent research program. Applicants must have a Ph.D. degree and suitable postdoctoral or academic experience. A curriculum vitae, a statement of current and future research interests, a statement of teaching experience and/or goals and names of three references should be sent by **January 15, 2000** to:

Chair,
Microbial Biologist Search Committee
Department of Plant & Microbial Biology
111 Koshland Hall
University of California
Berkeley, CA 94720-3102

Applications submitted after the deadline will not be accepted.

The University of California is an Equal Opportunity/Affirmative Action Employer



Assistant Professor

Morehead State University is seeking applications for a tenure track, Assistant Professor with teaching/research expertise in Molecular Genetics.

Responsibilities: Teach undergraduate and graduate courses in genetics, vertebrate development, and general biology for majors and non-majors; supervise graduate research projects; advise and mentor biology majors; participate in seminars and special programs; and provide support for recruitment and retention efforts.

Qualifications: Ph.D. in Biology from an accredited institution with expertise in Molecular Genetics and Vertebrate Development. ABDs by August 1, 2000 may be considered. Evidence of good verbal communication skills and scientific writing ability. To ensure consideration, submit letter of application, CV, statements of teaching philosophy and research interests, official transcripts, and three letters of recommendation by December 10, 1999, to: Office of Human Resources, Attn: Genetics #335, Morehead State University, HM 101, Morehead, KY 40351.

MSU is an EO/AA employer.

Manager of Regulatory Affairs

A Nashville, Tennessee based company dedicated to serving the needs of agriculture has a position immediately available for a Manager of Regulatory Affairs. The candidate will be required to oversee all regulatory aspects of an international agriculture-based business in a changing and challenging environment. The successful candidate will have a Ph.D. or MBA and at least 3 to 5 years experience in a relevant discipline (biochemistry, cellular biology, genetics, or molecular biology). Pharmaceutical or agricultural industrial experience or familiarity with agricultural scientific research, laboratory safety regulations, and regulations pertaining to testing and commercialization of new plant products is highly desired. The candidate must have an appreciation of cultural diversity as well as exhibit excellent communication skills in both technical and business circles. They will also be expected to interact with internal and external scientists as well as with federal, state, local and international agencies that impact our business. Domestic and international travel will be required. Interested candidates should send their resume with the names of three references to:

Science
Attn: Room 911, Box 86
1200 New York Avenue, NW
Washington, DC 20005
EEO/M/F/V/D

NEUROBIOLOGY

THE ALBERT EINSTEIN COLLEGE OF MEDICINE

The Department of Psychiatry and Behavioral Sciences invites applications for a TENURE TRACK, faculty position in neuroscience research. Applicants must have a Ph.D. and relevant postdoctoral experience. All research emphases in this area are welcome, but preference will be given to candidates with a primary research interest in areas related to the neurobiology of addictive disorders, neuroimaging studies in addiction, or genetic mechanisms in addiction, psychiatric disorders, or drug metabolism. The successful applicant will join the Division of Basic Science, establish an extramurally funded research program, interact and collaborate with other neuroscientists and faculty within the college, and provide teaching and mentoring to trainees including graduate and medical students and postdoctoral fellows. Current research includes medications development for cocaine dependence, effects of drugs of abuse on CNS development, genetics of bipolar disorder, and genetic and molecular basis of nicotine dependence. Resources available to support research include a MRI Center for human and animal research studies and a Genetic and Translational Medicine Center.

Please send a curriculum vitae, description of a proposed research program, and 3 letters of reference to: **Elmore F. McCance-Katz, M.D., Ph.D.** Deputy Chair, Dept. of Psychiatry and Behavioral Sciences, Albert Einstein College of Medicine, Jack & Pearl Resnick Campus, 1300 Morris Park Ave., Belfer 403, Bronx, NY 10461. Review of applications will continue until a suitable candidate is identified. Academic rank will be determined based on qualifications of the successful applicant. EOE



ALBERT EINSTEIN COLLEGE OF MEDICINE

Advancing science, building careers



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"A mind is a terrible thing to waste"



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- 15 Awards Annually
- Scholarships up to \$25,000
- Two Summer Internships at a Merck Research Facility

An applicant must:

- Be a full-time student at any four-year college or university
- Have junior year academic status
- Major in a life or physical science (first professional degrees excluded)
- Have a minimum cumulative GPA of 3.3 (4.0 point scale)

GRADUATE

SCIENCE RESEARCH
DISSERTATION FELLOWSHIPS

- 12 Fellowships Annually
- Fellowship Stipends up to \$30,000
- Department Grants of \$10,000
- Support for 12-24 months

An applicant must:

- Be enrolled full-time in a Ph.D. or equivalent doctoral program in a biomedical life or physical science
- Be engaged in and within 1-3 years of completing dissertation research

POSTDOCTORAL

SCIENCE RESEARCH
FELLOWSHIPS

- 10 Fellowships Annually
- Fellowship Stipends up to \$55,000
- Department Grants of \$15,000
- Support for 12-24 months

An applicant must:

- Hold a Ph.D. or equivalent degree in a biomedical life or physical science
- Be appointed as a postdoctoral fellow during the 2000 calendar year at an academic or non-academic research institution (private industrial laboratories are excluded)

Applicants must be African American (Black, non-Hispanic), U.S. citizens or permanent residents and at an institution in the U.S.A. Applications must be postmarked by January 31, 2000

For application forms and more information, please contact your department chairperson or Jerry L. Bryant, Ph.D., by mail at *The College Fund/UNCF*, 8260 Willow Oaks Corporate Drive, P.O. Box 10444, Fairfax, VA 22031-4511, by fax (703) 205-3574, or by E-mail: uncfmerck@uncf.org

Visit our web site: www.uncf.org



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POSTDOCTORAL POSITION

A postdoctoral position is available to participate in an established research program addressing the regulation of key enzymes in fatty acid and membrane phospholipid synthesis. Candidates with a recent Ph.D. degree interested in utilizing contemporary molecular biology, genetics, structural biology and biochemistry to problems related to gene expression and the regulation of membrane phospholipid biogenesis in bacteria are encouraged to apply. The research focuses on understanding enzyme structure/function and the biochemical mechanism of action of novel antibacterial drugs that target lipid biosynthesis. Applicants should submit their curriculum vitae, reprints and names of three references to: **Dr. Charles O. Rock, Biochemistry Department, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis TN 38105-2794. E-mail: charles.rock@stjude.org. An Equal Opportunity/Affirmative Action Employer.**



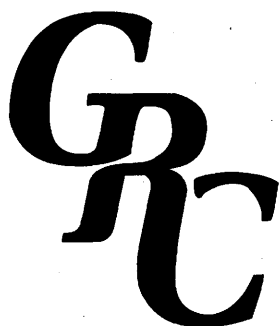
Two Faculty Positions Syracuse University Department of Biology Fall, 2000

The Department of Biology, Syracuse University invites applications for two tenure track positions at the rank of Assistant or Associate Professor. Outstanding candidates at the rank of Professor will also be considered. Successful candidates for both positions will be expected to develop and/or maintain an externally funded research program. Both positions will carry teaching responsibilities for undergraduate and graduate students that will be commensurate with maintenance of a successful research program. Biology at Syracuse is a scientifically diverse department with significant strengths in developmental genetics, cell/molecular biology, evolutionary biology and ecosystem biology. The department is embarking on an exciting program of renovation over the next several years. This includes the addition of several more faculty (in addition to the two described here) as well as the design and occupation of new laboratory and teaching space. For further information about the department, visit the website <http://www-hl.syr.edu/depts/biograd/>. Interested candidates are urged to send a complete curriculum vitae, a summary of their research interests plus future research plans and three letters of recommendation to the appropriate search committee listed below. Applications received by January 15, 2000 will be given full consideration.

Biochemist: We seek an outstanding individual trained in biochemistry whose research is focused on problems relating to areas such as, but not limited to structural biology, RNA function, protein folding, protein synthesis, or signal transduction. **Contact Dr. Richard Hallberg, Chair, Biochemist Search Committee, Department of Biology, 122 Lynman Hall, Syracuse University, Syracuse, NY 13244. Email: hallberg@mailbox.syr.edu.**

Developmental Biologist: We seek outstanding candidates who will use modern genetic and/or cell/molecular approaches to study developmental processes in multicellular model systems. **Contact Dr. John Belote, Chair, Developmental Biologist Search Committee, Department of Biology, Biological Research Laboratories, Syracuse University, 130 University Place, Syracuse, NY 13244. Email: jbelote@mailbox.syr.edu.**

Qualified women and minorities are strongly encouraged to apply.



GORDON RESEARCH CONFERENCES

Conferences at the Frontiers of the Biological, Chemical and Physical Sciences

- The preliminary 2000 Summer GRC schedule will appear in the November 26, 1999 issue of **SCIENCE**.
- The full 2000 Summer and Fall GRC schedule will appear in the February 18, 2000 issue of **SCIENCE**.

visit the *frontiers of science* at:

WWW.GRC.URI.EDU

Our web site contains the complete schedule of current and upcoming Conferences. Apply directly from the web! Check it out now, Conferences fill up fast!

The Endowment for
SCHOLARS

in

Biomedical Research

at

The University of Texas Southwestern Medical Center

UT Southwestern is pleased to announce the continuation of the Endowed Program for Scholars in Biomedical Research. The Program, which is fully funded from private endowment, will provide \$600,000 over four years to support the research activities of each new **Assistant Professor** (tenure track) appointed to the Program; five will be appointed annually. In addition, regular funding for salary, as well as research space, will be provided by the medical school department or research center offering the appointment. Positions in both **basic science** and **clinical departments** are available. The goal of the program is to assure a successful beginning of the research careers of an ever-growing cadre of outstanding young investigators at UT Southwestern.

For detailed information about currently available faculty positions, please access our web page: <http://www.swmed.edu>

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Deputy Director, Science
NASA/Marshall Space Flight Center (MSFC)
Huntsville, AL

The Science Directorate, NASA/MSFC seeks to fill the above Senior Executive Service (SES) position to provide scientific and engineering leadership and management in the generation and communication of new knowledge in areas of biotechnology, materials science, space science, earth science, and space optics manufacturing technology. The Directorate conducts basic and applied research, develops enabling technologies, and administers assigned NASA programs and projects. It is in process of implementing the National Center for Space Science and Technology (NSSTC) in cooperation with other Government agencies, academia, and industry. Preference will be given to applicants who have successful peer-reviewed publications and/or who have experience in leading state-of-the-art research and technology development.

An overview of current research can be found at <http://www.science.nasa.gov>

Inquiries: Dr. M. Franklin Rose, Director, Science Directorate, NASA MSFC, Huntsville, AL 35812; 256-544-7721 or frank.rose@msfc.nasa.gov.

Application: Apply under vacancy announcement MSFC ES-11-99. A full text job announcement and filing instructions are available at <http://hrd.msfc.nasa.gov/JOBS/ses.html> or by calling Sue Payne at 256-544-7530.

PENNSTATE



College of Medicine
University Hospital • Children's Hospital
The Milton S. Hershey Medical Center

TISSUE ENGINEERING FACULTY POSITION

The Biomedical Engineering Institute and the Department of Orthopaedics and Rehabilitation at the Pennsylvania State University, College of Medicine, announce an opening for an Assistant Professor (tenure track) in the area of Tissue Engineering. The successful candidate will hold a doctoral or equivalent degree in engineering, physics, or a related technical field. The Institute is a part of the Penn State Bioengineering Program and is located on the Medical College campus in Hershey, Pennsylvania.

The successful applicant will be expected to establish an independent research program with strong extramural grant support. He/she will also be expected to develop bioengineering courses. Applicants should have a demonstrated record of research activity in the area of musculoskeletal, cardiovascular, or nervous system Tissue Engineering. This is a unique opportunity to join a highly interactive research group focusing on musculoskeletal and cardiovascular research, artificial organ development and biomaterials. A joint academic appointment will include a primary appointment in the College of Medicine (Orthopaedics and Rehabilitation or Surgery) and a secondary appointment in the School of Engineering (Bioengineering).

Please send a curriculum vitae, three letters of reference, and a brief description of research interests by February 1, 2000, to:

Henry J. Donahue, Ph.D., Chair,
Tissue Engineering Search Committee, Department of Orthopaedics and
Rehabilitation, The Pennsylvania State University, College of Medicine,
M.C. H089, P.O. Box 850,
Hershey, PA 17033-0850 hdonahue@psu.edu

Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.

TENURE TRACK FACULTY POSITIONS NEUROSCIENCE

As the first step in a major initiative in the neurosciences, the Department of Neuroscience at Albert Einstein College of Medicine invites applications for up to five tenure-track faculty positions. The successful candidates should be capable of establishing and maintaining strong research programs in areas related to the mechanisms, regulation and plasticity of synaptic transmission. Appointments may be at the level of Assistant, Associate and Professor levels. Applicants must have a Ph.D. or M.D. and research experience in relevant areas.

The Department has a strong tradition of research in the neurobiology and is located within the Kennedy Center for Research in Mental Retardation, a multi-disciplinary center dedicated to the neurosciences, thereby providing excellent opportunities for active collaborations. The College provides nationally competitive start-up packages for new faculty.

Applicants should send a CV, a 1-2 page statement of research interests, and arrange to have three letters of reference sent to: **Dr. Donald S. Faber, Chair, Department of Neuroscience, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Ave., Bronx, NY 10461. EOE**



**ALBERT EINSTEIN
COLLEGE OF
MEDICINE**

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UNIVERSITY OF
CALGARY

ANIMAL DEVELOPMENTAL BIOLOGIST

On the edge and leading the way.

The University of Calgary is a contemporary university that builds a spirit of discovery and inquiry while delivering a dynamic life and quality learning experience.

The **Department of Biological Sciences** invites applications for a tenure-track faculty position at the Assistant or Associate Professor level. The position is available July 1, 2000 and is open to applicants with a strong background in animal developmental biology (Ph.D. degree, at least three years of postdoctoral experience and a record of productive high-quality research). The successful candidate should establish an active, externally funded research program in contemporary developmental biology and be committed to excellence in teaching at the undergraduate and graduate levels. The major teaching responsibilities will fall in the area of developmental biology. Potential applicants are invited to visit the web site of the Department at www.ucalgary.ca/UofC/faculties/SC/BI/. Calgary is a dynamic city (pop. 800,000) with a lively cultural life and many recreational opportunities. It is located only an hour from the Rocky Mountains and 80 minutes from Banff.

A complete application should include the following: a curriculum vitae with an e-mail address, a concise outline of research plans including copies of maximally three publications, and a statement of teaching interest and philosophy. Candidates should also arrange to have three letters of reference sent under separate cover. Closing date for receipt of the complete application package and reference letters is January 26, 2000. Send to: **Dr. David M. Reid**, Head, Department of Biological Sciences, University of Calgary, 2500 University Drive NW, Calgary, Alberta T2N 1N4. Fax: (403) 289-9311.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary respects, appreciates and encourages diversity.

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PRINCIPAL RESEARCH SCIENTIST

Utilizing your scientific expertise, you will lead a research staff utilizing molecular biology, genetics and genomics technology. We will rely on you to interpret, evaluate and publish research results and maintain communication with management. To qualify, you must possess a PhD and 7+ years experience in Molecular Biology, Genetics and/or Genomics, as well as strong leadership, problem-solving and project management skills.

Roche Bioscience is proud to offer competitive salaries and a full benefits package, including incentive bonuses, 401(k) and pension plans. For consideration, please send your resume, indicating Job Code SC11101GF, to: Roche Bioscience, Professional Staffing, 3401 Hillview Avenue, A2-HR, Palo Alto, CA 94304. Fax 650/424-8159. We are an equal opportunity employer committed to workforce diversity.

www.roche.com/bioscience

Rapid Access to Intervention Development

"RAID"

The NATIONAL CANCER INSTITUTE is requesting applications for the following initiative: Rapid Access to Intervention Development (RAID). RAID will make available to academic investigators, on a competitive basis, the preclinical development contract resources of NCI's Developmental Therapeutics Program. RAID is not a grant program to originating investigators. The goal of RAID is the rapid movement of novel molecules and concepts from the laboratory to the clinic for proof-of-principle clinical trials, using NCI's contract research mechanisms. RAID will assist investigators who submit successful applications by providing any (or all) of the preclinical development steps that may be obstacles to clinical translation. These may include, for example, production, bulk supply, GMP manufacturing, formulation, and toxicology. Suitable agents for RAID will include small molecules, biologics, or vaccines. *There are two receipt dates for proposals per year, February 1 and August 1. Current applications must be received by February 1, with all materials submitted directly to the office listed below.* For information on process and procedure, visit the web site, <http://dtp.nci.nih.gov>. Inquiries are encouraged, and the opportunity to clarify issues or questions is welcome. Academic investigators may have collaborations with small-business partners and still qualify for RAID funding. Please note that a maximum of two distinct proposals per investigator can be submitted, for each application review date. Please contact:

RAID, Office of Associate Director
Developmental Therapeutics Program, NCI
Executive Plaza North, Suite 843
6130 Executive Blvd., Rockville, MD 20852
Tel: 301.496.8720; Fax: 301.402.0831
Email: sausville@nih.gov

NATIONAL INSTITUTES OF HEALTH NATIONAL EYE INSTITUTE

Job Opportunities

The National Eye Institute Intramural Program at the NIH campus, Bethesda, MD., is seeking highly qualified Postdoctoral Fellows, Research Associates and Staff Scientists in the following areas:

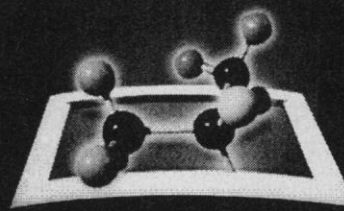
- Molecular Biology
- Cell Biology
- Immunology
- Psychophysics
- Biochemistry

Salaries range from \$27,500 to \$118,400 per annum, based on experience and type of appointment.

NEI offers an extensive benefits package that you may be eligible for, depending on the appointment mechanisms: Health Benefits, Life Insurance, Retirement Benefits, Annual and Sick Leave, Formal Training Program, Recruitment Bonus, Retention Allowance, Relocation Allowance, Loan Repayment Program, and Travel Benefits.

Candidates interested in specific job opportunities at the NEI may visit the NEI web site at <http://www.nei.nih.gov> listing the most current positions available.

NIH/NEI is an Equal Opportunity Employer



Advancing science through research.

Your unique talents are of critical importance at Parke-Davis Pharmaceutical Research, a Division of Warner-Lambert Company. We are devoted to discovering, developing, manufacturing and marketing quality pharmaceutical products. This can only be achieved through the work of the finest scientific talent and dedication.

Currently, we seek an independently motivated scientist to participate in a newly initiated effort in tumor profiling at the Parke-Davis/University of Michigan Genomics Laboratory.

Postdoctoral Fellow – Job Code: HS/99-1637SC

You will gain broad exposure to multiple areas within drug discovery and development while investigating basic elements of cancer biology using cutting-edge technologies, including gene arrays and proteomic methods.

Our approach will use the simultaneous evaluation of DNA, RNA and protein expression in well-characterized human tissues. In addition, clinical and morphologic information will be integrated with the molecular profile for a comprehensive understanding of malignancy. The knowledge derived from this integrated approach will be applied to the development of animal models of tumor growth and susceptibility. Other potential biomedical applications include target identification, comparative pathology of tumors in different species, and patient stratification and selection in clinical trials. The program will involve collaborative activity with multiple departments at both institutions, including pathology and experimental toxicology, cancer research, bioinformatics, molecular biology, clinical oncology and chemistry.

To qualify, you must have a Ph.D, MD or DVM degree with experience in cancer biology, hands-on familiarity with molecular biology/pathology methods, and interest in developing skills in bioinformatics. Morphologic knowledge of cancer pathology is highly desirable. Participation in the diagnostic activities of the University of Michigan Pathology Department can be arranged as part of the fellowship for MD pathologists.

We offer competitive salaries, outstanding benefits, and an environment that's conducive to professional growth. We have the above opportunity in **ANN ARBOR, MI**. For confidential consideration, please forward your resume indicating Job Code, to: **Parke-Davis, Warner-Lambert Processing Center, P.O. Box 549231-Suite 24, Waltham, MA 02454-9231. Fax: 877-663-2497 (Toll-free).** Equal opportunity in action. Smoke-free environment.

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www.warner-lambert.com



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NEUROCRINE BIOSCIENCES, INC. is a leading neuroscience company focused on the discovery and development of novel therapeutics to treat diseases and disorders of the central nervous system (CNS) and immune systems. We have exceptional opportunities at our state-of-the-art research facility in San Diego for the following individuals.

BIOLOGIST

You will direct 2-4 research staff, work closely with medicinal chemists, and be involved in an effort to generate small molecule antagonist against GPCR's for the treatment of autoimmune diseases (e.g. neurodegeneration). Requires PhD in Biology with at least 3 years postdoctoral experience in the area of G-protein coupled receptors and their ligands; experience in the drug discovery process, as evidenced by publications in peer-reviewed journals. A background in biology, immunology, or cellular pharmacology, and ability to work within a multi-disciplinary environment is highly desired.

MOLECULAR BIOLOGIST

Requires PhD with a minimum of 2 years postdoctoral experience and strong publication record; experience in G-protein coupled receptors, cloning of ligand and receptor genes, pharmacological characterization of expressed receptors, signal transduction pathways and the identification of novel antagonists. Selected individual will have a strong background in molecular biology and protein expression.

Located in coastal San Diego adjacent to world-class academic institutions, we offer competitive compensation and excellent benefits. Please send resume, specifying position, to: Neurocrine Biosciences, Inc., Attn: HR, 10555 Science Center Dr., San Diego, CA 92121; Fax: (858) 623-3397, or Email: hr@neurocrine.com EOE.

www.neurocrine.com



POST-DOCTORAL FELLOWSHIPS IN CELLULAR AND MOLECULAR IMMUNOLOGY NATIONAL CANCER INSTITUTE

Immediate openings exist for full-time Post-Doctoral Fellowships in the Tumor Immunology Section, Surgery Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, to study the immune response to tumors in humans.

We seek candidates with experience in cellular or molecular immunology. A background in immunology is essential. Ongoing projects include the identification of new tumor-associated antigens, the study of immune tolerance to tumor-associated differentiation antigens and the development of synthetic and recombinant anti-cancer vaccines. Another project aims to study immune responses in breast cancer and requires a background in culture of fresh human breast cancers.

Selections of these positions will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation or membership or non-membership in an employee organization.

Send cover letter, resume, and statement of research interests to:

Steven A. Rosenberg, M.D., Ph.D.
Chief of Surgery
National Cancer Institute
National Institutes of Health
Building 10, Room 2B42
Bethesda, Maryland 20892-1502
EMAIL: SAR@nih.gov

NIH IS AN EQUAL OPPORTUNITY EMPLOYER



Microgravity Research, Program Manager NASA/Marshall Space Flight Center Huntsville, Alabama

The Science Directorate, NASA/MSFC seeks to fill the above Senior Executive Service (SES) position to provide scientific, engineering, and management leadership in the implementation of multi-disciplinary scientific and commercial Microgravity Research. Research areas include biotechnology, combustion science, fluid physics and transport phenomena, fundamental physics and materials science. Research topics involve basic and applied ground-based and space-based investigations. The position requires skills in the management of basic and applied research, enabling technologies, and administration of assigned NASA programs and projects. Preference will be given to applicants who have a general understanding of physical and biological sciences and have experience in leading state-of-the-art research and technology development.

Information on microgravity research can be found at <http://microgravity.msfc.nasa.gov>, <http://mgnews.msfc.nasa.gov>, <http://commercial.nasa.gov>

Inquiries: **Dr. M. Franklin Rose, Director,
Science Directorate,
NASA MSFC, Huntsville, AL 35812;
256-544-7721 or frank.rose@msfc.nasa.gov**

Application: Apply under vacancy announcement MSFC ES-12-99. A full text job announcement and filing instructions are available at <http://hrd.msfc.nasa.gov/JOBS/ses.html> or by calling Sue Payne at 256-544-7530.



DIRECTOR NIH Undergraduate Scholarship Program for Individuals from Disadvantaged Backgrounds (UGSP)

The National Institutes of Health (NIH), located in Bethesda, Maryland, is the world's largest biomedical research facility. The Office of Loan Repayment and Scholarship, a program office within the Office of Intramural Research, Office of the Director, NIH, is seeking an experienced individual to direct the NIH Undergraduate Scholarship Program (UGSP). The UGSP is a competitive scholarship program for students from disadvantaged backgrounds who are committed to careers in biomedical research. The program is designed to improve access to education leading to biomedical research careers for those who have had fewer opportunities than others, and to provide an incentive for exceptional scholars to pursue biomedical research careers at NIH. Additional information regarding this program is available on the Internet at <http://ugsp.info.nih.gov>.

We are seeking candidates who have a Ph.D. (or equivalent degree) in the life sciences and at least 2 years of college-level teaching experience. Experience working with students from populations who are under-represented in the life sciences or from disadvantaged backgrounds is required. Candidates must have the ability to work effectively with proven outcomes with members of the educational and scientific communities, proven organizational and time management skills, strong oral and written communication skills, and a strong commitment to the success of students from underrepresented and disadvantaged backgrounds. Experience at the bench in biomedical research and/or biomedical research training is highly desirable.

This position is classified as a Health Scientist Administrator, GS-601. The starting salary for GS-12 is \$48,796 (includes locality pay). The starting salary for GS-13 is \$58,027 (includes locality pay). The starting salary for GS-14 is \$68,570 (includes locality pay). Relocation expenses to cover shipment of household goods up to a maximum of \$3,000 may be provided to individuals outside of the commuting area. Application materials will be available on November 1 on the Internet at <http://careerhere.nih.gov/CHPublic/hrvacmenu.taf> or via facsimile by calling 301-402-4111. Completed applications must be received or postmarked no later than 11/22/99. This is vacancy announcement OD-99-7103, fax ID # 97103.

NIH is an Equal Opportunity Employer, dedicated to building a diverse community in its training and employment programs.

POSITIONS OPEN

VISION RESEARCH TENURE-TRACK FACULTY POSITION

The Eye Research Institute of Oakland University and the Department of Ophthalmology at William Beaumont Hospital invite applications for a tenure-track faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** rank. Individuals with research interests in diabetic retinopathy, age-related macular degeneration, retinal vasculature/proliferation or ocular growth factors are particularly encouraged to apply. The successful candidate will be granted a primary academic appointment in the Eye Research Institute and a secondary appointment in the hospital, and will interact directly with an outstanding group of basic researchers, clinical retinal specialists, and vitreoretinal fellows. Salary and set-up funds are commensurate with experience and competitive with national levels; laboratory space will be available in both the Institute and the Hospital. Applicants should have a strong commitment to excellence in research and are expected to develop (or bring) a vigorous research program that attracts NIH funding. The Eye Research Institute consists of nine full-time faculty whose research is focused on the biochemistry, physiology, cell biology and molecular biology of the cornea, lens and retina. Research facilities are supported, in part, by a Core Grant for Vision Research from the National Eye Institute, and include EM/histology, tissue culture, and a state-of-the-art animal care facility. All applicants should submit a curriculum vitae, a statement of their scientific accomplishments and future research directions, and arrange to have three letters of reference sent on their behalf to: **Professor Barry S. Winkler, Eye Research Institute, Oakland University, Rochester, MI 48309**. The committee will begin to consider applications on January 15, 2000. *Oakland University is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION PHARMACOLOGY AND TOXICOLOGY

A tenure-track faculty position at the **ASSISTANT PROFESSOR** level is available in the Department of Medical Pharmacology and Toxicology, College of Medicine, Texas A&M University System Health Science Center. The successful candidate is expected to develop a strong, independent research program and participate in medical and graduate teaching. The position will be available in the spring of 2000. We invite candidates that can address tobacco-related problems, although all areas of pharmacology will be considered. Program strengths within the department include: ocular, neuropharmacology, as well as toxicology. **Website:** <http://medicine.tamu.edu/pharm>. Applications should include curriculum vitae, selected reprints, statement of research interests, and three letters of reference. Review of applications will begin February 1, 2000, and will continue until the position is filled. Please send your application to: **Dr. William H. Griffith, Chair, Search Committee, Department of Medical Pharmacology and Toxicology, Texas A&M University System Health Science Center, College Station, TX 77843-1114**. *Equal Opportunity Employer.*

FACULTY POSITION BIOCHEMISTRY

Case Western Reserve University (CWRU)

The Department of Biochemistry invites applications and nominations for a tenure-track position at the **ASSISTANT PROFESSOR** level. Applicants should have vigorous research interest in the application of structural and biophysical methods to protein chemistry, protein/nucleic acid interactions, virology, cell biology, or the regulation of gene expression. Applicants should send curriculum vitae and statement of research plans, and have three reference letters sent to: **Michael A. Weiss, Chairman, Department of Biochemistry, School of Medicine, Case Western Reserve University, Cleveland, OH 44106-4935**.

Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer and encourages the applications of qualified women and minorities.

POSITIONS OPEN

FACULTY POSITION NEUROSCIENCE OF PSYCHIATRIC DISEASE

The Nathan Kline Institute (NKI), a State-funded research institute closely affiliated with the Department of Psychiatry of New York University Medical School, invites applications for tenure-track faculty positions at the **ASSISTANT to FULL PROFESSOR** level, with a possible dual appointment at NKI and the NYU School of Medicine, from applicants with interests in basic and clinical neuroscience relevant to Alzheimer's, schizophrenia, and major neuropsychiatric diseases. NKI, located on the 200-acre campus of the Rockland Psychiatric Center 15 miles from downtown Manhattan, has completed a major expansion, which includes newly constructed facilities, and additional staff for basic research, neuroimaging, clinical investigation, and services research. Candidates with a Ph.D., M.D., or both should have a strong background in approaching nervous system function using molecular, genetic, and/or neurophysiological techniques. Applications are encouraged from candidates with interests in psychiatric genetics, molecular biology and neuropathology, transgenic modeling of neuropsychiatric disease, neurophysiology, and molecular pharmacology. Successful candidates should be able to establish an externally-funded program of research and collaborations with a large, multidisciplinary faculty who cooperate in investigating disease pathogenesis at the molecular, preclinical, and clinical levels. Salary and recruitment packages offered will be commensurate with qualifications and experience. Applicants should send a curriculum vitae, a statement of research interests, and a list of references to: **Abel Lajtha, Ph.D., Chair, Search Committee, Nathan Kline Institute, 140 Old Orangeburg Road, Orangeburg, NY 10962**. *Equal Opportunity Employer/Affirmative Action.*

FACULTY POSITION MOLECULAR BIOLOGY North Dakota State University

The Department of Botany/Biology invites applications for a nine-month, full-time, tenure-track assistant professor in molecular biology, with responsibilities in teaching and research. The candidate will develop a strong, externally-funded research program using molecular approaches to address fundamental questions in molecular, cellular, or developmental biology. Individuals working in areas such as cell-cell communication, signal transduction mechanisms, plant developmental biology, and molecular genetics are particularly encouraged to apply. More details are available at **website: www.ndsu.nodak.edu/ndsu/holbrook/nonclass.stm#sm**. Applicants should submit curriculum vitae, transcripts, statement of teaching philosophy and research interests, representative publications, and three letters of reference (sent separately) to: **Dr. Marvin W. Fawley, Chair, Molecular Biology Search Committee, Department of Botany/Biology, North Dakota State University, Fargo, ND 58105-5517** by 7 January 2000 to assure full consideration. *North Dakota State University is an Equal Opportunity Institution.*

UNIVERSITY RESEARCH ASSOCIATE. The Mass Spectrometry Facility is seeking an operator/manager of a mass spectrometry laboratory, which provides analytical chemistry services, interpretation of resulting scientific data, and communication of results to university researchers. Requires Ph.D. in Chemistry with at least two years postdoctoral experience in biological mass spectrometry as stated in the following. Hands-on experience with protein fingerprinting using mass spectrometry, use of electrospray mass spectrometry, liquid chromatography mass spectrometry (LC/MS), matrix-assisted laser desorption/ionization mass spectrometry (MALDI) for research and analysis of various compounds, High Performance Liquid Chromatography (HPLC) analysis, mass spectrometer maintenance and troubleshooting. Salary: \$45,000. Send résumés to: **Department of Workforce Services, Attn: Pat Redington, Job Order # 3060905, 140 East 300 South-1st Floor, Salt Lake City, UT 84111**.

POSITIONS OPEN

TWO FACULTY POSITIONS FIELD STATION DIRECTOR COMPARATIVE ANIMAL PHYSIOLOGIST

The Department of Biology at the University of Memphis invites applications for two positions: Director of the Meeman Biological Station (Associate level) and Comparative Animal Physiologist (Assistant level). The areas of research are open for both positions. Applicants must have a Ph.D., established research credentials, and teaching and postdoctoral experience. For the Director position, some experience in administration, fund-raising, and operation of a field station are desirable. The Director position is half-time administration and half-time teaching/research. Duties for the Director include organizing a teaching program, establishing extramurally funded research, raising funds for developing housing and research facilities, and supervising staff and station maintenance. Candidates will be expected to develop strong, extramurally funded research programs, direct M.S. and Ph.D. students, and teach effectively at graduate and undergraduate levels. Applicants should submit a letter of application, curriculum vitae, a concise description of research and teaching interests, administrative and field station experience (for the Director position), and names, telephone numbers and e-mail addresses of at least four references to: **Search Committee (for each position), Department of Biology, The University of Memphis, Memphis, TN 38152-6081**. Contacts for more information: **Telephone: 901-678-2581, FAX: 901-678-4746, E-mail: jwolf@memphis.edu**. Deadline for receipt of applications in our office is December 6, 1999, and may continue until the positions are filled.

Women and minority candidates are encouraged to apply. The University of Memphis is an Affirmative Action/Equal Opportunity Employer.

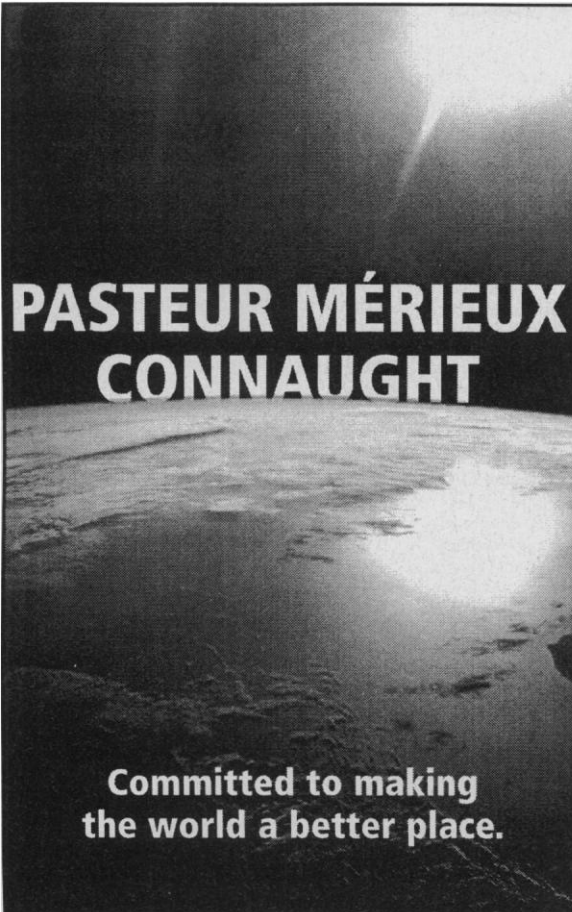
PHYSICAL CHEMISTRY, BIOPHYSICS, BIOLOGY AND PHYSICS EXPERIMENTALISTS POSTDOCTORAL AND RESEARCH FACULTY

The Wilson-Squier Group, at the University of California, San Diego, Department of Chemistry and Biochemistry, has positions available for exceptionally talented experimental scientists in the following areas: ultrafast x-ray diffraction and absorption applied to chemical and biochemical dynamics and function, and new techniques in optical microscopy for spatially and temporally resolved imaging as applied to the understanding of dynamics of cellular and intercellular biomolecular and biological processes (including inter-neuronal communication and function).

For more information about these positions and the Group, or to receive application process information, visit our **website: <http://www.wilson.ucsd.edu>** or **e-mail: wgiobops@ucsd.edu**. Positions commensurate with experience and qualifications, with salaries based on University of California pay scales. *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION AQUATIC MICROBIAL ECOLOGY

The Department of Biology at Western Carolina University invites applications for a tenure-track **ASSISTANT PROFESSOR** position. The candidate should hold a Ph.D. with postdoctoral experience. Applicants should have a strong background in ecology and microbiology with an emphasis in freshwater systems. Responsibilities will include teaching aquatic ecology, microbiology, and biostatistics. The candidate will be expected to maintain an externally funded research program involving undergraduates and Master's students. Please send a curriculum vitae, a brief description of research interests and teaching philosophy, three letters of reference and official transcripts of all undergraduate and graduate work to: **Chair of the Search Committee, Department of Biology, Western Carolina University, Cullowhee, NC 28723**. Deadline for application is January 15, 2000. *Western Carolina University is an Equal Opportunity Employer.*



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Pasteur Mérieux Connaught, owned by the Rhône Poulenc Group (headquartered in Paris, France), is the world's largest vaccine company. Pasteur Mérieux Connaught USA is the nation's premier researcher, developer, manufacturer and supplier of vaccines for use in humans, providing the broadest range of vaccines and biologicals commercially available from any single U.S. vaccine company. We currently have the following outstanding opportunity.

Director of Technology Development

In this highly visible position, you will manage the effective transfer of new technologies and processes from R&D, related to, manufacturing and testing of new biological products; support the monitoring, managing and continuous improvement of all manufacturing and analytical processes' teams; proactively seek new technologies aimed at improving product quality, production efficiency and business process efficiency; support the training effort with Industrial Operations; and participate in the strategic planning and development of Industrial Operations' systems, processes, technologies, facilities and practices. An MS degree in Biological Sciences and/or Engineering required. Ph.D. preferred.

PMC is located in a campus-like setting in a beautiful area of Northeastern Pennsylvania. As a member of the Rhône-Poulenc Group, we offer an attractive salary/benefits package, a drug-free work environment and ongoing opportunities for continuing education and professional development.

Please submit your resume and cover letter indicating position of interest, job code, and salary requirements to: Pasteur Mérieux Connaught, Human Resources, Job Code: DTD/BD Discovery Drive, Swiftwater, PA 18370. Fax: (570) 839-0561. E-mail: resumes@us.pmc-vacc.com

Please visit our web site www.us.pmc-vacc.com

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FACULTY POSITIONS MOLECULAR NEUROSCIENCE THE UNIVERSITY OF IOWA

The Department of Physiology and Biophysics at The University of Iowa invites applications for one or more tenure-track faculty positions in the area of molecular neuroscience. Applicants with interests in the areas of neurodevelopment, neurogenetics, and neuroendocrinology that complement current departmental strengths in signal transduction, gene regulation, and membrane trafficking are encouraged to apply. Although applications will be considered for positions at all levels, preference will be given to those for Assistant Professor. Applicants should have a Ph.D. and/or M.D. degree, at least two years of relevant postdoctoral training, and a strong record of research accomplishment supported by publication. Excellent salary and start-up support is provided. The Department has broad strengths in molecular, cellular and integrative physiology and participates in many productive interdisciplinary research activities throughout the University. For more information, visit our website at www.physiology.uiowa.edu.

To apply, please send a curriculum vitae, a statement of research plans, representative publications, and names of three or more references to: Neuroscience Search Committee, Department of Physiology and Biophysics, The University of Iowa College of Medicine, Iowa City, IA 52242.

*The University of Iowa is an Equal
Opportunity/Affirmative Action Employer.
Women and minorities are strongly
encouraged to apply.*

Another day. Another **BREAKTHROUGH.**

At Schering-Plough Animal Health, we're turning our commitment to animal health into the most remarkable innovations veterinary care has experienced in decades. We can offer an exciting opportunity to advance your career at our Biological Research facility in **San Diego, CA**.

Director Biological Research

In this position, you will be responsible for research and development of genetically engineered vaccines for the animal health market. You will have managerial responsibilities for the scientific staff, including the formulation, recommendation and implementation of research programs, budgets and project schedules. You will also interact closely with our other research sites to exchange information, to acquire resources necessary to accomplish division goals and to ensure smooth transition of research projects toward product launch.

Selected individual will be a Ph.D. or D.V.M. with strong management skills and demonstrated expertise/peer recognition in vaccine development for the animal health market. The ideal candidate has 10+ years of post-Ph.D. work experience and is highly regarded in the field of vaccine development with a proven track record of scientific accomplishments and a demonstrated ability to achieve results.

We offer an excellent compensation package including a competitive salary, a cash incentive bonus program, a long-term incentive program, and comprehensive benefits including group insurance, retirement program, profit sharing and 401(k).

To learn more about this challenging position with a worldclass corporation, send your resume detailing education, experience and salary history to: **Human Resources, Schering-Plough Animal Health, 3525 John Hopkins Court, San Diego, CA 92121; E-mail: hresandiego@spcorp.com** We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



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POSITIONS OPEN

EMORY UNIVERSITY FACULTY POSITIONS ENVIRONMENTAL STUDIES

The Department of Environmental Studies at Emory University invites applications for two tenure-track positions at the rank of Assistant Professor. We seek to fill one position in ecological economics, and another in mathematical ecology. For the ecological economist, we seek candidates with training in natural science (ecology, biology), and a Ph.D. in economics or ecological economics. For the ecologist, we seek candidates who blend theory with field studies and mathematical modeling and hold a Ph.D. in ecology or related field.

Successful candidates will develop rigorous programs in teaching and research. Candidates must be committed to quality teaching of undergraduates, in an interdisciplinary environment of integrated field courses.

Applicants should send a one-page statement of research and teaching interests, a curriculum vitae, and the names and contact information of three references. Applications must be postmarked no later than 15 December 1999, and should be sent to: **Chair, Search Committee, Department of Environmental Studies, Emory University, 1715 North Decatur Road, Atlanta, GA 30322. Telephone: 404-727-2429.**

Emory University is an Equal Opportunity/Affirmative Action Employer. Members of underrepresented groups are encouraged to apply.

CHAIR, Division of Rheumatology, Allergy and Immunology, in the Department of Internal Medicine at Virginia Commonwealth University's Medical College of Virginia. Candidates should be nationally recognized for achievement in basic or clinical research, have demonstrated ability to attract funding, possess strong leadership skills, and have at least three (3) years significant administrative leadership experience at the divisional or departmental level in an academic medical center. The successful candidate for this tenure-eligible **ASSOCIATE PROFESSOR/PROFESSOR** position will direct a vigorous and well-endowed academic program encompassing research, teaching, and patient care. Candidates must possess an M.D. or M.D./Ph.D. degree, be board-certified in Internal Medicine and Rheumatology, Allergy and Immunology and possess a distinguished record of scholarship manifested by a strong publication record in peer-reviewed journals. Send letter of interest and curriculum vitae to: **John Nestler, M.D., Chairman, Search Committee, Division of Endocrinology and Metabolism, P.O. Box 980111, Richmond, VA 23298-0111.** This position will close January 31, 2000. *Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disability are encouraged to apply.*

SENIOR FACULTY POSITION CONDENSED MATTER PHYSICS Michigan State University

The Department of Physics and Astronomy at Michigan State University, **website: www.pa.msu.edu**, is seeking candidates for a Senior faculty position in experimental condensed matter physics. The Department is seeking to broaden its research scope to include nontraditional subjects with potential for interdisciplinary interactions with other departments, such as the biological sciences, chemistry, and materials science. The new Senior faculty member will have substantial input in the hiring of two Junior faculty to strengthen the initiative. University support for this new initiative is strong. A new science building scheduled for completion in 2001 will house the Departments of Microbiology, Physiology, and Physics and Astronomy, and will be connected to the Chemistry and Biochemistry buildings. Applicants should send a résumé, publication list, and the names of at least three references to: **Chairperson, Department of Physics and Astronomy, Michigan State University, East Lansing, MI 48824-1116.** *Michigan State University is an Affirmative Action/Equal Opportunity Institution.*

POSITIONS OPEN



NEUROSCIENCE CENTER University of California, Berkeley Systems and/or Cognitive Neuroscience

The Neuroscience Center at University of California, Berkeley invites applications for an open-level faculty position beginning July 1, 2000. Candidates must have a strong research program in systems or cognitive neuroscience. Position is available at either the non-tenured or tenured level. Applications for the position must be postmarked by January 10, 2000, and are to include a curriculum vitae and selected reprints. Candidates should also arrange to have at least three letters of recommendation sent to the same address. Address to: **Neuroscience Center, Search Committee, University of California, Berkeley, 498 Life Sciences Addition #3190, Berkeley, CA 94720-3190**, postmarked by Monday January 10, 2000. Applications postmarked after the deadline will not be considered. *All qualified applicants including minorities and women are encouraged to apply. The University of California is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION COMPARATIVE GENOMICS

ASSISTANT PROFESSOR of Comparative Genomics at the University of California at Davis. Ph.D. with advanced training in comparative genomics. D.V.M. or equivalent degree desirable. Demonstrated aptitude/experience in teaching. Documented research record or potential to develop independent research program in companion animal genomics, especially dogs and cats. Must possess excellent interpersonal and communication skills and a demonstrated ability to work with others in a collegial team atmosphere. Teaching responsibilities include participation in lectures and laboratories in the D.V.M. professional curriculum including a role in the development and delivery of a new course in veterinary genetics; participation in the graduate academic programs (M.S. and Ph.D.) of the campus. Applications will be accepted through December 31, 1999, or until a candidate is identified. Qualified applicants should submit a letter of intent outlining special interest in the position, overall related qualifications, experience and career goals, curriculum vitae, and the names and addresses of three professional references to: **Robert H. BonDurant, Chair, Department of Population Health and Reproduction, University of California, Davis, CA 95616.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION APPLIED PHYSICS California Institute of Technology

The Applied Physics program at Caltech invites applications for a tenure-track position as **ASSISTANT PROFESSOR**. We are interested in highly qualified candidates who are committed to research and teaching in areas in which fundamental physical principles are applied to important technological problems. The initial term of appointment is normally for four years, and appointment in contingent upon completion of a Ph.D. Interested candidates should submit a résumé, publication list, and a less-than-five-page research prospectus via electronic submission. Please attach your résumé/prospectus file in an e-mail addressed to: **haa@daedalus.caltech.edu**—make the e-mail subject "aphcit search" and use your name as the résumé/prospectus file name. Submission of Adobe *.pdf files is encouraged, however, Word 5.x, 6.x, 98 for Mac or Word 95, 6.x and 7.x for Windows will be accepted. Applicants should also complete the registration form at the **URL website: http://www.cco.caltech.edu/~aphhome/register.html**.

Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans and disabled persons are encouraged to apply.

POSITIONS OPEN

FACULTY POSITION DEPARTMENT OF MICROBIOLOGY- IMMUNOLOGY

Northwestern University Medical School

Qualified candidates are sought for a full-time, tenure-track faculty position in the area of bacterial or fungal pathogenesis at the **ASSISTANT PROFESSOR** level. Candidates are expected to have completed appropriate postdoctoral training, to have a demonstrated record of significant research accomplishments, and to be able to effectively develop an outstanding research program with extramural support. Northwestern University Medical School features interactive laboratories that study bacterial, viral, and protozoan pathogenesis and immune responses to infectious agents, in addition to numerous other aspects of immunity and autoimmune responses. There is a strong collaborative environment at Northwestern University Medical School that bridges traditional departmental lines. There are also very strong Ph.D. and M.D.-Ph.D. programs that attract excellent students and Postdoctoral Fellows. Applicants should send a statement of research goals, a complete curriculum vitae, and the names, addresses, telephone numbers, and e-mail addresses of three references to: **Microbiology Faculty Search, Department of Microbiology-Immunology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611-3008.** The proposed starting date is September 1, 2000. Salary is negotiable. Applications will be reviewed upon receipt and, to ensure full consideration, should be received by January 31, 2000. *Northwestern University Medical School is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.*

TENURE-TRACK FACULTY POSITIONS BIOENGINEERING RICE UNIVERSITY

The Department of Bioengineering at Rice University invites applications for two tenure-track faculty positions. One position is in the area of computational bioengineering. The second position is in the area of cellular and molecular bioengineering. Applicants should have a strong multidisciplinary background in their respective field and substantial experience in independent research and in obtaining competitive funding. For both positions, we are particularly interested in researchers with exceptionally strong research expertise and interest in working at both the macro level of tissues and micro/nanoscale level of cells, organelles and molecules.

The successful applicant would establish research collaborations with institutions at the adjacent Texas Medical Center, groups at the Institute of Biosciences and Bioengineering at Rice University, and with the Keck Center for Computational Biology in Houston. Applicants would be expected to develop and teach courses in the areas of biomedical engineering at the undergraduate and graduate levels. Applicants should send a curriculum vitae which includes a list of publications, a statement describing their proposed research and names of at least three references to:

**Professor Larry V. McIntire
Chair, Department of Bioengineering MS 142
Rice University
P.O. Box 1892
Houston, TX 77251-1892**

For full consideration, applications should be received by January 1, 2000.

Rice University is an Equal Opportunity Employer.

EXTENSION AGRONOMIST, ASSISTANT PROFESSOR, tenure-track (70 percent extension, 30 percent research) position at Utah State University. Provide leadership in scientific and technical education; plan, implement, evaluate, and publish results of field demonstrations and applied research. See #2-153 at **website: personnel.usu.edu**, or call **Telephone: 435-797-0124** for information. Review begins December 31, 1999. *Affirmative Action/Equal Opportunity Employer.*



**Assistant/Associate Professor
Tenure Track
Molecular Genetic Mechanisms of
Development**

Applications are invited for two tenure track faculty positions, at either the Assistant or Associate Professor level, in the area of molecular genetics or functional genomics. Successful candidates will have had a productive postdoctoral experience and an active research program focusing on molecular/molecular genetic mechanisms of normal or abnormal vertebrate embryonic development. Successful applicants will be responsible for developing an active research program supported by external funding. Teaching requirements are minimal. Opportunities exist to participate in the Birth Defects Center, and collaborate with other existing research programs in the Health Sciences Center (e.g., the Center for Genetics and Molecular Medicine). Applicants should send a curriculum vitae, a statement of current research interests, and names of three references to: **Dr. Douglas Darling, Search Committee, Department of Molecular, Cellular and Craniofacial Biology, ULSD, 501 S. Preston St., University of Louisville Health Sciences Center, Louisville, KY 40292.** *The University of Louisville is an EEO/AA employer. Women and minorities are encouraged to apply.*

**FRANK SMATHERS, Jr.,
CHAIR IN TROPICAL TREE BIOLOGY
UNIVERSITY OF MIAMI**

The Department of Biology invites applications from and nominations of distinguished scientists to fill a newly endowed chair at the rank of full professor. We seek an internationally recognized botanist whose research concerns the biology of tropical trees. The candidate must have a Ph.D. or equivalent degree, a strong record of obtaining external funds, and demonstrated ability to attract and supervise outstanding graduate and postdoctoral students. We seek a colleague who will direct a vigorous research program, and who will teach at graduate and undergraduate levels. Departmental strengths lie in Tropical Biology, Evolution, Ecology, and Behavior. The Department has a cooperative relationship with Fairchild Tropical Garden, and is a founding member of the Organization for Tropical Studies.

Applications will be reviewed beginning January 15, 2000. Applicants should send a statement of research interests and plans, curriculum vitae, three representative publications, and the names and addresses of three referees to:

**Dr. David P. Janos,
Tropical Tree Biology Search
Department of Biology
University of Miami
P.O. Box 249118
Coral Gables, FL 33124**

The University of Miami is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

**NATIONALAERONAUTICS & SPACE ADMINISTRATION
Office of Earth Science—Applications, Commercialization & Education Division
Washington, DC**

Announcement #DA-00-14
AST-Earth Science Program Management
GS-1301-15, Manager, Water Applications Program

OPENING DATE: October 26, 1999
CLOSING DATE: November 24, 1999

Area of Consideration: All Sources
Relocation expenses will be paid

DUTIES:

The function of this position is to serve as manager of the Water Applications Program in the Applications, Commercialization and Education (ACE) Division in the NASA Office of Earth Science (OES). ACE is working to accelerate the access to and use of Earth Science Enterprise (ESE) remote sensing data, information, science, and technologies for addressing important practical applications such as weather and climate, disaster management, agriculture, floods, natural resources management, urban and regional planning, drought mitigation, and transportation planning. This position will encompass the water resources applications aspects of all ESE related applications and science issues.

The Water Applications Program Manager will have the responsibility to develop the program together with the related scientific research program carried out in the Research Division of OES. The manager will be responsible for all programmatic and funding aspects associated with research and applications tasks under his/her direction. The specific program elements will evolve over time depending on budget and programmatic direction. The incumbent will serve as a recognized expert in the applied use of water availability and water quality derived from environmental satellite and airborne observations. Efforts are directed to planning, development, and execution of a broad program in applications of water availability and water quality for practical purposes. The incumbent will define program goals and objectives for relevant research and applications programs; establish priorities; determine funding and manpower requirements and allocates resources to meet them; manages center, university, other governmental or non-governmental organization projects and assesses results. The incumbent will work closely with members of the ESE Research Division and the Commercial Remote Sensing Program on related water-oriented programs to ensure consistency and continuity between the basic research program and the practical applications program in this area.

For additional information on application procedures, contact Ann Delo (202) 358-0750.

**NATIONALAERONAUTICS & SPACE ADMINISTRATION
Office of Earth Science—Applications, Commercialization & Education Division
Washington, DC**

Announcement #DA-99-24
AST-Earth Science Program Management
GS-1301-15, Manager, Land Resources Applications Program

OPENING DATE: October 26, 1999
CLOSING DATE: November 24, 1999

Area of Consideration: All Sources
Relocation expenses will be paid

DUTIES:

The function of this position is to serve as manager of the Land Resources Applications Program in the Applications, Commercialization and Education (ACE) Division in the NASA Office of Earth Science (OES). ACE is working to accelerate the access to and use of Earth Science Enterprise (ESE) remote sensing data, information, science, and technologies for addressing important practical applications such as weather and climate, disaster management, agriculture, floods, natural resources management, urban and regional planning, drought mitigation, and transportation planning. This position will encompass the land resources applications aspects of all ESE-related applications and science issues.

The Land Resources Applications Program Manager will have the responsibility to develop the program together with the related scientific research program carried out in the Research Division of OES. The manager will be responsible for all programmatic and funding aspects associated with research and applications tasks under his/her direction. The specific program elements will evolve over time depending on budget and programmatic direction. The incumbent will serve as a recognized expert in the applied use of land resources information derived from environmental satellite and airborne observations. Efforts are directed to planning, development, and execution of a broad program in applications of land resources for practical purposes. The incumbent will define program goals and objectives for relevant research and applications programs; establish priorities; determine funding and manpower requirements and allocates resources to meet them; manages center, university, other governmental or non-governmental organization projects and assesses results. The incumbent will work closely with members of the ESE Research Division and the Commercial Remote Sensing Program on related land applications-oriented programs to ensure consistency and continuity between the basic research program and the practical applications program in this area.

For additional information on application procedures, contact Ann Delo (202) 358-0750.

POSITIONS OPEN

FACULTY POSITION GENETICALLY ENGINEERED MICE

The Department of Pathobiology and the Program in Comparative Genomics and Biotechnology invites applications for an approximately 70 percent research/30 percent service, tenure- or non-tenure track, faculty position. Individuals should have strong expertise in supervising a transgenic mouse core facility to produce overexpressed and gene ablated mice for campus investigators. For a tenure-track position, outstanding research potential and/or accomplishments in a suitable area of research is expected. Strength in infectious disease or cardiovascular research is preferable. A non-tenure track position would focus on collaborative research with faculty in the College of Veterinary Medicine, College of Medicine, and the College of Agriculture/Texas Agricultural Experiment Station, and scholarly development of techniques associated with genetic engineering. The successful individual may also contribute to the undergraduate, professional and/or graduate teaching programs in his/her area of expertise. A Ph.D. or D.V.M./Ph.D. and postdoctoral training is expected of a tenure-track individual, while an M.S. or Ph.D. or D.V.M. will be considered for a non-tenure track faculty member. A letter of application with curriculum vitae, statement of research and service goals, reprints of three publications, and contact information for three references should be sent to: **Dr. Ann Kier, Head, Department of Pathobiology, College of Veterinary Medicine, Texas A&M University, College Station, TX 77843-4467.** The Departmental website can be viewed at [website: http://vtpb-www.cvm.tamu.edu](http://vtpb-www.cvm.tamu.edu). Applications will be received until the position is filled. *Texas A&M University is an Equal Opportunity Employer committed to excellence through diversity.*

ASSISTANT PROFESSOR OF CONSERVATION GENETICS, tenure-track, nine-month, in the Department of Environmental Science, Policy, and Management, Division of Ecosystem Sciences and the Agricultural Experiment Station at the University of California, Berkeley, available July 1, 2000. Candidates should have a strong background in the application of molecular techniques and population genetics to conservation and natural resource management. We are interested in candidates who apply molecular and analytical methods to identify stocks, populations, and management units, to determine the impacts of habitat loss and fragmentation on genetic structure, to understand the role of genetics in population viability, and to study other processes associated with the creation and loss of genetic diversity. Applicants should submit a curriculum vitae, statement of research and teaching interests, and names and addresses of three references to: **Chair, Conservation Genetics Search Committee, Ecosystem Sciences Division, 151 Hilgard Hall MC 3110, University of California, Berkeley, Berkeley, CA 94720-3110, Telephone: 510-642-2210.** Applications must be received by 14 January 2000.

The University of California is an Equal Opportunity/Affirmative Action Employer.

Risk Analysis and Policy Analysis: Interdisciplinary Environmental Studies Department in the College of Public Affairs and Administration seeks a tenure-track **ASSISTANT PROFESSOR**, beginning August 15, 2000. Candidates must have a Ph.D. in appropriate field, evidence of research potential, and the ability to teach courses in human and environmental risk assessment and analysis and in policy and policy analysis with expertise in air, land, or water.

Send letter of application describing teaching and research interests, curriculum vitae, transcripts, and the names and addresses of at least three references to: **Search Committee, Department of Environmental Studies, University of Illinois at Springfield, P.O. Box 19243, Springfield, Illinois 62794-9243.**

Review of applications will begin December 1, 1999 and continue until the position is filled.

The University of Illinois at Springfield is an Affirmative Action/Equal Employment Opportunity Employer. Persons with disability, women, and minorities are encouraged to apply.

POSITIONS OPEN

FACULTY POSITION MATERIALS SCIENCE/BIOMATERIALS Brown University

The Division of Engineering at Brown University announces the opening of a tenure-track position in materials science in the area of biomaterials. The appointment may be made at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level, depending on the qualifications of the candidate selected. Candidates for the associate rank should have substantial research experience beyond their doctoral dissertation. The appointment is expected to begin on September 1, 2000.

The appointee will be expected to establish a strong research program in the field of biomaterials. Candidates in all areas of biomaterials are encouraged to apply. Research topics of particular interest include interfacial phenomena, functionalized and self organized systems, bio-sensors, and tissue engineering. The appointee will also be expected to teach undergraduate and graduate courses in materials science and biomaterials, as well as contribute to the undergraduate core curriculum of the Division of Engineering. In addition, this person will be expected to make significant contributions to the development of the new Biomedical Engineering initiative at Brown.

Qualifications include a Ph.D. or equivalent degree, a background in materials science, and demonstrated research accomplishments in the field of biomaterials. Applicants should have the ability to make clear and effective presentations. Interested persons should send a complete résumé, including the names of at least three references to:

**Professor Clyde L. Briant
Search Committee Chair
Division of Engineering
Box D
Brown University
Providence, RI 02912**

Brooklyn College/The City University of New York, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in the Department of Biology beginning September 2000. We seek a broadly-trained microbiologist who uses cell and molecular biology approaches. The faculty member is required to develop a research program that generates external funding and trains undergraduate and graduate research students. Applicants must have a Ph.D. degree, postdoctoral training, publications, and a strong commitment to undergraduate education. A complete application consists of: curriculum vitae, a statement of research plans, and three letters of recommendation (to be sent directly from three referees). Review of applications will begin on November 15, 1999, and continue until position is filled. Apply to: **Dr. Joan Rome, Office of Personnel Services, Brooklyn College, 2900 Bedford Avenue, Brooklyn, NY 11210.** *An Affirmative Action/Equal Employment Opportunity/IRCA/Americans with Disabilities Act Employer.*

George Mason University, Chemistry Department, invites applications for a tenure-track position at the rank of **ASSISTANT PROFESSOR** in the sub-discipline of biochemistry beginning September 2000. Any specialization in biochemistry will be considered, but preference will be given to candidates who can establish interdepartmental collaborations and complement existing graduate programs. A commitment to effective undergraduate and graduate teaching and the development of a funded and active research program during the first two years of employment is expected. Submit curriculum vitae, summary of teaching and research interests, copies of two recent papers, and three letters of recommendation to: **Gregory D. Foster (Search Committee), Chemistry Department, MSN 3E2, George Mason University, Fairfax, VA 22030.** Applications must be received by January 7, 2000, to have full consideration. *George Mason University values diversity and is committed to providing equal opportunities for all individuals.*

POSITIONS OPEN

FACULTY POSITIONS IN NEUROBIOLOGY Oregon Health Sciences University

As part of an ongoing expansion, which has added five full-time faculty members in the last four years, the Center for Research on Occupational and Environmental Toxicology (CROET) ([website: http://www.ohsu.edu/croet](http://www.ohsu.edu/croet)) invites applications for faculty positions at the equivalent of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. We seek individuals using molecular, cellular, animal, or human models to define the causal basis of neurological disease, including the role of environmental and genetics factors. The ability to develop and sustain a vigorous, independent research program is of paramount importance, as is a commitment to graduate and postdoctoral training. CROET, with facilities occupying 45,000 square feet in the CROET/Basic Science Building, is a multidisciplinary, neuroscience-focused institute dedicated to promoting health in the Oregon workplace. Its activities extend from laboratory-based, applied, and clinical research to community outreach and education. The neuroscience community at Oregon Health Sciences University (OHSU) includes nearly 100 faculty members representing great depth and diversity in molecular, cellular, systems-based, developmental, and behavioral research. Applicants should submit a curriculum vitae and a statement of research plans, and have three letters of reference sent to: **Faculty Search, Center for Research on Occupational and Environmental Toxicology, L606, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201.**

OHSU is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS BIOCHEMISTRY

Southwest Texas State University

The Department of Chemistry has expanded and extended its current search. We are now seeking two tenure-track **ASSISTANT PROFESSORS** to complement the development of undergraduate and graduate programs in biochemistry. A Ph.D. in an appropriate field is required and postdoctoral experience preferred. Expectations include quality teaching at both the graduate and undergraduate level with the development of a successful research program benefiting undergraduates and Masters' students. The first position is open to all areas of biochemical research. The second position is open to individuals with research interests in the application of molecular genetic studies using the *Xiphophorus* fish model. Additional information is available at our [website: http://www.swt.edu/~ji02](http://www.swt.edu/~ji02). Submit a curriculum vitae, outline of research and teaching plans, plus the names of three references to: **Dr. James D. Irvin, Department of Chemistry, Southwest Texas State University, 601 University Drive, San Marcos, TX 78666.** Applications will be reviewed as received until the positions are filled. *Southwest Texas State University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR CHEMICAL ENGINEERING MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Applicants are sought for a Junior-level, tenure-track faculty position in the Department of Chemical Engineering at the Massachusetts Institute of Technology. Applicants should have a Ph.D. in chemical engineering or a closely related field, should have demonstrated excellence in academic research, and should have a strong interest in teaching graduate and undergraduate chemical engineering students. Send résumé including the names of at least three references, graduate transcripts, and a description of research interests to: **Dr. Robert C. Armstrong, Head, Department of Chemical Engineering, Massachusetts Institute of Technology, 66-350, Cambridge, MA 02139.** Material should be received by January 1, 2000.

MIT is an Equal Opportunity/Affirmative Action Employer.



The University of Georgia

**ASSISTANT PROFESSOR
UNIVERSITY OF GEORGIA
DEPARTMENT OF MICROBIOLOGY**

The Department of Microbiology, at the University of Georgia, invites applications for a new tenure track Assistant Professor faculty position in cellular/molecular aspects of microbial physiology or microbial pathogenesis. Qualifications for this position include a doctoral degree and a minimum of two years of postdoctoral experience, a strong record of research productivity, and a commitment to excellence in classroom instruction. Women and minorities are especially encouraged to apply. Responsibilities will include the development of an independent, externally funded program of research and graduate training, as well as teaching in undergraduate and graduate level courses within the Department. Applicants should submit a statement of research and teaching interests and a curriculum vitae. Applicants should arrange to have three letters of reference sent prior to the closing deadline. All applications must be received by January 10, 2000. The target date for filling this position is August 15, 2000. Salary will be commensurate with qualifications and experience. Submit applications to: Search Committee, Department of Microbiology, The University of Georgia, Athens, GA 30602.

*The University of Georgia is an Equal Opportunity/
Affirmative Action Institution.*

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medicine**

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These are full-time positions with an established editorial team based in New York City.

Applicants should have a strong research background in the biomedical sciences, a broad understanding and interest in biomedical research, excellent literary skills and a commitment to the communication of science.

This is an exciting opportunity to play an essential part in a top-ranked science journal while staying at the forefront of modern research. Although the successful candidate will focus on research manuscript selection and communication with authors and referees, they will participate in all aspects of the editorial process, including commissioning articles, writing and attending conferences.

We offer a highly competitive salary and excellent working conditions within a dynamic editing and publishing group that is also responsible for *Nature Genetics*, *Nature Structural Biology*, *Nature Biotechnology* and *Nature Neuroscience*.

Please submit a CV (with names of three references), a concise letter outlining your credentials, and a 500-word News & Views-style article on a recent exciting and newsworthy development in any area of biomedical research to: The Editor, *Nature Medicine*; 345 Park Avenue South, New York, NY 10010-1707 (FAX 212-683-5751; e-mail medicine@natureny.com), to arrive as soon as possible and **no later than 30 November 1999**.



Nature America Inc.

Nature America, Inc.
345 Park Ave. South
New York, NY 10010

**UNIVERSITY OF MISSOURI-COLUMBIA
FACULTY POSITION**

Molecular Biology/Physiology

The University of Missouri is accepting applications for a tenured or tenure track *mid/senior level investigator* with research achievements/interests in molecular biology and its application to understanding mechanisms involved in neurohumoral control of physiological systems. Desirable research interests include synaptic transmission, sensory processing, or receptor systems in central autonomic pathways. Outstanding candidates in related areas also are encouraged to apply. The primary research focus may vary, but the individual should have an active interest in applying information gained in molecular studies to functional aspects of neurohumoral control of the cardiovascular system. The successful candidate will exhibit an active, well established, nationally recognized research program. A desire to lead research and training initiatives to integrate molecular biological with functional approaches related to neurohumoral control of the circulation is essential. This position is a Mission Enhancement Initiative of the University in support of the existing excellence in neurohumoral control of the circulation on campus. The successful candidate will participate in the Mission Enhancement Initiative for recruitment of a junior level investigator with complementary research interests. Teaching requirements will be commensurate with the expertise of the individual. The appointment is in Biomedical Sciences, College of Veterinary Medicine, with joint appointments in the College of Medicine (e.g., Physiology) and the Dalton Cardiovascular Research Center, as appropriate. Applications should include a curriculum vitae, names of three references, and a letter stating professional goals. Review of applications will begin on February 1, 2000, and continue until the position is filled.

Interested individuals should send a curriculum vitae, statement of research interests, and three references to:

Eileen M. Hasser, Ph.D.
Dalton Cardiovascular Research Center
134 Research Park
University of Missouri
Columbia, MO 65211-3300
Telephone: 573-882-6125
e-mail: HasserE@missouri.edu

Equal Opportunity/Affirmative Action Employer

**Chair
Department of Biochemistry and
Molecular Pharmacology
University of Massachusetts Medical School**

The University of Massachusetts Medical School invites applications for the position of Chair of the Department of Biochemistry and Molecular Pharmacology. We are seeking candidates with an outstanding research program. The successful candidate must have the vision and leadership qualities to develop a multidisciplinary department. The mission will be to define the future direction of the department by building on the excellence of well established research and teaching programs. The position is an exceptional opportunity and will include resources for numerous tenure track faculty positions with generous start-up funds and substantial space in a new state-of-the-art research building. Interested candidates should send a curriculum vitae to Dr. Gary S. Stein, Chairperson, Biochemistry and Molecular Pharmacology Search Committee, University of Massachusetts Medical School, Department of Cell Biology, 55 Lake Avenue North, Worcester, MA 01655. The University of Massachusetts is an Equal Opportunity/Affirmative Action Employer.



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POSITIONS OPEN

FACULTY POSITION NEUROSCIENCE

The Department of Neurobiology and Anatomy and The W. M. Keck Center for the Neurobiology of Learning and Memory
The University of Texas-Houston
Medical School

The Department of Neurobiology and Anatomy, University of Texas-Houston invites applicants for a tenure-track faculty position. We are seeking a colleague who uses modern cellular or molecular approaches to examine fundamental questions in neurobiology. He/she will complement the existing research strengths in the areas of synaptic transmission, synaptic plasticity, and signal transduction. Applicants must hold a Ph.D. or M.D. degree and have at least two years of postdoctoral training. The successful candidate will be expected to develop a strong independent research program and teach at the medical and graduate school levels. Exceptional resources are available, and the rank of appointment is open, however, preference will be given to applicants at the Assistant Professor level. Applicants should submit a curriculum vitae, a brief description of research interests, and the name and address of three references.

This material should be submitted to:

Dr. Neal Waxham
Chairman, Search Committee
Department of Neurobiology and Anatomy and
W. M. Keck Center for the Neurobiology of
Learning and Memory
University of Texas-Houston
P.O. Box 20708
Houston, TX 77225

The University of Texas-Houston is an Equal Opportunity Employer/smoke-free environment. Women and minorities are encouraged to apply.

FACULTY POSITION MICROBIOLOGIST

The College of William and Mary invites applicants for a tenure-track position at the **ASSISTANT PROFESSOR** level in microbiology. Desirable areas of expertise include classical and molecular bacteriology, biotechnology, prokaryotic genetics, prokaryotic biochemistry, and virology. Applicants should consider whether their research is appropriate for work in a primarily undergraduate institution, with biosafety levels not to exceed BSL-2. Candidates must demonstrate the potential and motivation to achieve excellence in teaching while maintaining an active research program with both undergraduate and Master-level students and are expected to obtain extramural funding to support their research. Previous experience teaching at an undergraduate liberal arts college would be advantageous, and postdoctoral experience is expected. Teaching responsibilities will include one upper-level microbiology course with laboratories and another course in an area of expertise. Information on The College of William and Mary may be obtained at [website: www.wm.edu](http://www.wm.edu). Review begins on January 2, 2000, and will continue until an appointment is made. Submit a letter of application, curriculum vitae, statements of research plans and teaching interests, and three names of references to: **Microbiology Search Committee, Department of Biology, Millington Hall, The College of William and Mary, Williamsburg, VA 23187-8795.** *The College of William and Mary is an Equal Opportunity/Affirmative Action University. Members of under-represented groups (including people of color, persons with disability, Vietnam veterans and women) are encouraged to apply.*

DEVELOPMENT BIOLOGY UNIVERSITY OF PENNSYLVANIA

A postdoctoral position is available to study the transcriptional regulation of heart and muscle development using transgenic and targeted mice (*Development* 126:1665-1674; *Development* 126:2495-2503). Permanent residents and citizens with molecular biology and cloning experience should send a curriculum vitae to: **Jonathan Epstein, 954 BRB II, 421 Curie Boulevard, Philadelphia, PA 19104.** E-mail: epsteinj@mail.med.upenn.edu.

POSITIONS OPEN

FACULTY POSITIONS HOST-PATHOGEN INTERACTIONS

The Department of Pathobiology at Texas A&M University invites applications for three, approximately 75 percent research/25 percent teaching, tenure-track faculty positions. Assistant, Associate or Full Professor levels will be considered. Individuals should have outstanding research potential and/or accomplishments in the study of the molecular and genetic basis of host-pathogen interactions involving enteric, respiratory or zoonotic pathogens. Positions are anticipated in molecular bacteriology, preferably enteric; molecular virology, preferably in DNA virology; and/or molecular parasitology, preferably in protozoan parasitology. The successful candidates will be expected to maintain vigorous, extramurally funded research programs and will have the opportunity to interact with and complement numerous other research faculty whose research is focused on infectious diseases and food safety in the College of Veterinary Medicine, College of Medicine, and the College of Agriculture/Texas Agricultural Experiment Station. The individuals will be expected to contribute to the undergraduate, professional or graduate teaching programs in their area of expertise. A Ph.D. or D.V.M./Ph.D. and postdoctoral training in infectious diseases (microbiology, parasitology, or virology) are required. A letter of application with curriculum vitae, statement of research goals, reprints of three publications, and contact information for three references should be sent to: **Chair, Search Committee, Department of Pathobiology, Texas Veterinary Medical Center, Texas A&M University, College Station, TX 77843-4467.** The Departmental website can be viewed at [website: http://vtpb-www.cvm.tamu.edu](http://vtpb-www.cvm.tamu.edu). Applications will be received until positions are filled. *Texas A&M University is an Equal Opportunity Employer committed to excellence through diversity.*

SENIOR PROFESSOR NEUROBIOLOGY DEPARTMENT OF NEUROBIOLOGY AND BEHAVIOR University of California, Irvine

The Department of Neurobiology and Behavior is seeking outstanding candidates in the field of neurobiology with an emphasis on neuronal plasticity. Preference will be given to applicants whose research includes the application of neuroimaging techniques in the analysis of problems ranging from cognitive processing to structure/function relationships in neurons. Current departmental research themes include learning and memory, integrative neuroscience, and development and neuronal reorganization following injury and disease. Please submit by January 10, 2000, a curriculum vitae, research plans, and the names and addresses of three potential referees to: **Chair, Department of Neurobiology and Behavior, University of California, 2205 Bio Sci II, Irvine, CA 92697-4550.** Website: <http://darwin.bio.uci.edu/neurobio/>.

The University of California, Irvine is an Equal Opportunity Employer committed to excellence through diversity.

EARTH SCIENCE

Our Environmental Studies program seeks candidates for a tenure-track **ASSISTANT PROFESSOR** position to support our environmental studies major by teaching primarily earth science courses and establishing an earth science research program engaging undergraduates. Research specialty may be in any area of environmental earth science. Earth science Ph.D., e.g., geology, geochemistry, or geophysics, required. Postdoctoral research experience preferred. Details at [website: http://www.lclark.edu/~esm](http://www.lclark.edu/~esm).

Submit curriculum vitae, graduate and undergraduate transcripts, statement of research experience/interests, and teaching interests/philosophy. Have recommendation letters sent by at least three referees to: **Professor Evan Williams, Chair, Environmental Studies, Lewis & Clark College, 0615 Southwest Palatine Hill Road, Portland, OR 97219.** *Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITIONS ASSISTANT PROFESSOR ASSOCIATE PROFESSOR

The Department of Biomedical Sciences is seeking two tenure-track Assistant/Associate Professor faculty positions to teach anatomy and/or physiology to veterinary students. The departmental focus is neuroscience, and successful candidates will be expected to conduct independent research in an area of neuroscience. Applicants with a wide range of research skills relevant to neuroscience are encouraged to apply. Research collaboration is available and expected. Salary is negotiable, depending on the experience, training, and accomplishments of the candidate. D.V.M. (or equivalent) qualifications and a Ph.D. are required. A strong publication record and demonstrated ability to attract federal grants are preferred.

Applications will be processed as received, and review of candidates will begin January 10, 2000. E-mail applications cannot be accepted. Send: 1) signed letter of application, 2) curriculum vitae, 3) copy of college transcripts, 4) statement of career goals, and 5) names of three references to:

Dr. Richard J. Martin
Professor and Chair
Department of Biomedical Sciences
College of Veterinary Medicine
Iowa State University
Ames, IA 50011-1250
Telephone: 515-294-2470
E-mail: rjmartin@iastate.edu

Iowa State University is an Affirmative Action/Equal Opportunity Employer.

EVOLUTIONARY BIOLOGIST UNIVERSITY OF CALIFORNIA RIVERSIDE

The Department of Biology invites applications for a faculty position at the Junior (tenure-track **ASSISTANT PROFESSOR**) or Senior (tenured **ASSOCIATE** or **FULL PROFESSOR**) level. We seek an evolutionary biologist working at the interface between the individual and the environment; relevant areas of interest include evolutionary physiology, functional morphology, and ecological genetics. The successful candidate will establish a vigorous research program, contribute to undergraduate and graduate training, and participate in our interdepartmental graduate research unit in evolution and ecology. Applicants must have a Ph.D. degree and a strong record of research accomplishment. Junior-level applicants must have two or more years of postdoctoral training; senior applicants must have an excellent research and teaching record. A curriculum vitae, statement of research interests, and three to five letters (as well as names and addresses of references for senior applicants) should be sent to: **Chair, Evolution Search Committee, Department of Biology, University of California, Riverside, CA 92521.** Review of applications will begin January 21, 2000. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

PHYSIOLOGIST-ASSISTANT PROFESSOR, Tenure-track, Ph.D. September 1, 2000, teach animal physiology, graduate courses in area of specialty, lower-level biology courses, and advise medical technology students. The candidate's potential as a teacher and as a director of undergraduate and graduate research are essential criteria. Preference given to individuals with research background in physiology, health science background, and a record of publications in refereed journals. The application deadline is January 15, 2000. **Midwestern State University** is a liberal arts university with an enrollment of 5,800 students. The biology department offers both the B.S. and M.S. degrees in biology. Submit curriculum vitae, description of proposed research, copy of transcripts, a statement of educational philosophy, and a list of three references with their addresses and phone numbers who are familiar with your teaching and research to: **Dr. William Cook, Chair, Biology Program, Faculty Search Committee, Midwestern State University, 3410 Taft, Wichita Falls, TX 76308-2099.** *Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE POSITIONS

CARDINAL BERNARDIN CANCER CENTER

Due to our continued growth and the success of our research faculty, the Cardinal Bernardin Cancer Center of Loyola University Medical Center has several positions available for highly qualified, motivated Research Associates/Post-Doctoral Fellows. Opportunities exist in each of the four basic science research programs located in the Cancer Center's 125,000 square foot research and clinic facility: Cancer Immunology, Lymphoma Biology, Molecular Oncology, and Skin Cancer Research.

Ph.D. or M.D. candidates with research interests in apoptosis, cell cycle regulation, dendritic cells and the immunotherapy of cancer, leukemia research, lymphoma biology, oncogenic viruses, regulation of gene expression and other areas of cancer biology can review the specific research opportunities available via our website at: www.lumc.edu/depts/oncology/resjobs.htm.

Inquiries may be directed to the specific faculty investigators via the email addresses listed on the website, or may be mailed to:

LOYOLA
UNIVERSITY
CHICAGO



Cardinal Bernardin Cancer Center
Loyola University Medical Center
2160 South First Avenue
Maywood, IL 60153

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MODELING OF BIOLOGICAL SYSTEMS AN INTERDISCIPLINARY COURSE FOR BIOLOGISTS AND NON-BIOLOGISTS

MARCH 25 – MAY 4, 2000

Modeling of Biological Systems (MOBS) is an intensive, multi-disciplinary, residential lecture & laboratory course designed to train biologists and non-biologists to apply and adapt successful modeling approaches in biology to their own research. MOBS is for students in the biological, chemical and physical sciences, mathematics and engineering. The course is organized into thematic cassettes that focus on particular broad areas of biology.

The MOBS curriculum is geared to advanced graduate students and above. Students require at least a working knowledge of college mathematics, preferably including a facility with calculus. Successful applicants will receive pre-course assignments to help with their Course activities. The Course represents an innovative approach to education of modeling of biological systems in its thematic organization, modularity of content, interdisciplinary teaming, and multi-year involvement by both students and faculty.

The faculty will introduce students to successful approaches to modeling used to address contemporary biological questions in a quantitative fashion. With faculty tutelage, students will have hands-on opportunity to work with these models, and to learn to apply these approaches to their own scientific questions.

Additional information is available at <http://courses.mbl.edu>.

Funding support for the MOBS Course is provided by the Burroughs Wellcome Fund and the National Science Foundation.

Course Director: Robert B. Silver, Marine Biological Laboratory

Faculty: Robert Eisenberg, Rush University; Judith Herzfeld, Brandeis University; John Hummel, Argonne National Laboratory; Peter Kollman, UCSF; Stephen Leibholz, Chesapeake TechLabs; John Pearson, Los Alamos National Laboratory; Silvina Ponce-Dawson, Univ. of Buenos Aires; Gregory Petsko, Brandeis Univ.; Robert Silver, Marine Biological Laboratory; Merle Wastney, Georgetown Univ.; and others to be announced.

Application Deadline: December 30, 1999.

Course Fee: \$3,750 (room & board is provided).

Scholarship assistance is available.



MARINE
BIOLOGICAL
LABORATORY

For More Information or Application Contact:
Admissions Coordinator, Marine Biological Laboratory
7 MBL Street, Woods Hole, MA 02543
(508) 289-7401 / email: admissions@mbi.edu

The MBL is an EEO Affirmative Action Institution

Scientists

www.corr.com

COR Therapeutics, Inc. is a publicly-held biopharmaceutical company focused on the discovery & development of novel therapeutics for the treatment of severe cardiovascular disease. We currently have opportunities in our South San Francisco facility for experienced scientists to join our Research team.

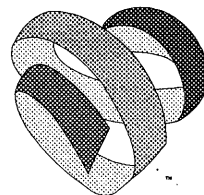
Molecular Biology

In this key role, you will conduct independent studies directed at understanding the mechanisms of signal transduction; create/validate novel systems to evaluate and screen selected signaling targets for agonists/antagonists; collaborate with groups involved in functional genomics efforts in the area of vascular disease; and develop/analyze novel transgenic models. The position requires a Ph.D. in molecular biology or related discipline; at least 2 years of relevant postdoctoral experience; and demonstrated experience with molecular biological techniques, including mammalian cell transfection, reporter gene analysis, and preparation/analysis of protein expression systems. Candidates must possess experience with transgenic models, cDNA cloning and analysis/functional characterization of novel genes. Experience with state-of-the-art signal transduction research highly desirable. (Job# 99067-SCI)

Histology

You will be responsible for the operation of our Histology core lab, including tissue preparation, immunohistochemistry, insitu hybridization and interpretation/troubleshooting data. You will also coordinate experimental design and data analysis with scientists from multiple distinct functional groups, as well as maintain the histologic data base and tissue sample bank. The position requires a Ph.D. or equivalent experience; experience with histologic techniques listed above; proficiency with light & fluorescent microscopic techniques; and the ability to work independently on multiple projects. Formal training or experience in experimental pathology or related discipline is highly desired. (Job# 99066-SCI)

COR Therapeutics, Inc. offers competitive salaries & benefits, and attractive equity positions. To apply, please send resume to: COR Therapeutics, Inc., Human Resources, Attn: (Job#), 256 East Grand Ave, South San Francisco, CA 94080; Fax: (650) 615-9639; Email: hr@corr.com. COR is an equal opportunity employer. For more detailed job descriptions, please visit our website.



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POSITIONS OPEN

FACULTY POSITION INTEGRATIVE BIOLOGY

The Department of Biological Sciences, University of Cincinnati, announces a tenure-track position to be filled at the **ASSISTANT** or **ASSOCIATE** rank by September 2000. We seek an individual using quantitative and/or molecular approaches to integrate various biological sub-disciplines with ecology and evolution, such as physiological ecology, evolutionary developmental biology, computational biology, behavioral endocrinology, and neuroethology. The individual is expected to develop a rigorous, externally funded research program, and to participate in training of graduate students (M.S. and Ph.D.). Teaching duties may include participation in undergraduate/graduate courses in the area of ecology/evolutionary biology, cellular and molecular biology, data analysis, and the candidate's specialty. Applicants must have a Ph.D. or equivalent degree; postdoctoral experience will be advantageous. This position is offered pending final administrative approval. Applicants should submit a curriculum vitae, statement of research and teaching interests, and three letters of recommendation by December 1, 1999, to: **Search Committee, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006.** *The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans and persons with disability are encouraged to apply.*

Tenure-track faculty position in biology: Penn State Erie, The Behrend College. The School of Science invites applications for an **ASSISTANT PROFESSOR** position to begin August 2000. Applicants must have a strong commitment to undergraduate teaching. We seek an animal physiologist or a microbiologist, with teaching capabilities that will contribute to a developing interdisciplinary environmental science program. The successful candidate will teach core biology courses and upper-division courses in his/her area of expertise, and will be expected to develop an externally funded research program involving undergraduates. The growing biology program consists of eight faculty members who conduct research in aquatic ecology, molecular biology, biochemistry, developmental biology, and genetics. See **website:** <http://vibrio.bd.psu.edu>. Ph.D. required, postdoctoral experience preferred. Send curriculum vitae, graduate and undergraduate transcripts, teaching statement, research statement explaining the suitability of the research at an undergraduate institution of 3,600 students; and arrange that three letters of reference be sent to: **Dr. Roger Knacke, School of Science, Department BIOL-A, Penn State Erie, Station Road, Erie, PA 16563-0203.** Application deadline is January 3, 2000, or until the position is filled. *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR ECOLOGY BIOLOGY DEPARTMENT Williams College

Tenure-track position at the rank of Assistant Professor beginning July 2000, for an Ecologist to teach courses in community/ecosystem ecology, conservation biology, evolution, and, on occasion, introductory biology. A senior appointment is possible in exceptional circumstances. The course load in the department is one course and two laboratory sections, or an equivalent load, per semester. Faculty members are expected to establish an independent research program that attracts external funding and involves undergraduates. Ph.D., postdoctoral experience, and a strong academic record are required. Please send curriculum vitae, one-page statements of teaching and research interests, and three letters of recommendation by November 15, 1999, to: **Dan Lynch, Department of Biology, Williams College, Williamstown, MA 01267.** *An Equal Opportunity/Affirmative Action Employer, Williams College especially welcomes applications from women and minority candidates.*

POSITIONS OPEN

ASSOCIATE PROFESSOR University of Minnesota Cancer Center and the Department of Laboratory Medicine and Pathology in the University of Minnesota Medical School

The University of Minnesota Cancer Center and the Department of Laboratory Medicine and Pathology in the University of Minnesota Medical School announce a new Associate Professor tenure-track position. Essential qualifications include an M.D. or Ph.D. degree and a minimum of five years postdoctoral experience. The successful applicant will have an independently-funded research program focused on molecular mechanisms of carcinogenesis, tumor promotion, and cancer chemoprevention. Appropriate research areas could include, but are not limited to, the role of signal transduction and transcription factors in tumor promotion and chemoprevention and molecular consequences of DNA adduct formation. The applicant will teach in the Department of Laboratory Medicine and Pathology professional program.

Interested individuals should submit a curriculum vitae, a summary of long-term research goals and three reference letters to: **Stephen S. Hecht, Ph.D., Search Committee Chair, University of Minnesota Cancer Center, Box 806 Mayo, 420 Delaware Street Southeast, Minneapolis, MN 55455. ATTN: Jacqueline Sterling.** Review of applications will commence on January 17, 2000, and continue until the position is filled. For full consideration, applications should be postmarked by January 15, 2000.

The University of Minnesota is an Equal Opportunity Educator and Employer.

DEVELOPMENTAL BIOLOGY AND/OR MICROBIOLOGY Clarkson University

The Biology Department invites applications for one or two tenure-track positions at the **ASSISTANT to FULL PROFESSOR** level, starting fall 2000. Responsibilities include teaching one to two courses/semester and maintaining an externally funded research program that includes undergraduates. We seek broadly-trained faculty in the areas of 1) developmental biology and/or 2) microbiology, with teaching skills in both general and environmental microbiology. We are especially interested in candidates who will contribute to our health science or environmental programs, and those whose research bridges molecular and organismal biology. Clarkson is a private technological university whose mission balances high quality undergraduate and graduate education with excellence in research. Clarkson is located in a rural setting just outside the Adirondack Park with year-round outdoor recreational opportunities. Clarkson lies within minutes of two other universities and within two hours of Montreal, Ottawa, and Lake Placid. Candidates should submit a curriculum vitae, research and teaching statements, sample reprints/preprints, and the names of three references (with postal/e-mail addresses) to: **Search Committee, Department of Biology, Clarkson University, Potsdam, NY 13699-5825.** Additional details on the position and Clarkson can be found at **website:** <http://www.clarkson.edu/~biologyc>. *Clarkson is an Equal Opportunity/Affirmative Action Employer.*

GENETIC MODIFICATION OF HEART FUNCTION

RESEARCH FACULTY AND POSTDOCTORAL POSITIONS are available, contingent on experience, to investigate cardiac function utilizing transgenesis and DNA viral vector delivery systems (see *PNAS* 96:11982, 1999; *JCI* 103:1459, 1999; *Nature Medicine*, Nov:1999). Individuals are sought with demonstrated interests in heart or skeletal muscle, and with expertise in the molecular, biochemical, biophysical, or physiological sciences, to join our research group. Send 1) one page summary of research accomplishments and career goals, 2) curriculum vitae, and 3) names of three references to: **Dr. Joseph M. Metzger, Department of Physiology, 7730 Medical Science II, University of Michigan, Ann Arbor, MI 48109-0622. E-mail: metzgerj@umich.edu.**

POSITIONS OPEN

ASSISTANT PROFESSOR Department of Cell Biology Yale University School of Medicine

Outstanding candidates whose research interests involve molecular and genetic approaches to any area of cell biology are encouraged to apply. Special consideration will be given to research programs which interface with the field of membrane traffic, a traditional strength of the Department. These would include the cytoskeleton and membrane-cytoskeleton interactions. The successful candidate will be expected to develop an independently funded research program and to participate in the teaching activities of the Department for graduate and medical students.

The candidate must hold a M.D. and/or a Ph.D. degree(s).

A curriculum vitae together with a brief statement of current and future research should be submitted by December 15, 1999. The application should include the names of three individuals who have agreed to send recommendation letters independently.

Applications and recommendations should be sent to:

**Faculty Search Committee
Department of Cell Biology
Yale University School of Medicine
333 Cedar Street
P.O. Box 208002
New Haven, CT 06520-8002**

Website: <http://info.med.yale.edu/cellbio/>

Yale University is an Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL BIOLOGIST

Canisius College, an independent, co-educational, medium-sized institution of higher education conducted in the Catholic and Jesuit tradition, has a tenure-track opening for an **ASSISTANT PROFESSOR** in Developmental Biology. The area of expertise is open, however the candidate will complement, not duplicate, the existing expertise which includes: environmental physiology, behavioral neuroscience, immunology, physiology, endocrinology, cellular neurobiology, ecology, microbiology, aquatic toxicology, and plant biochemistry/molecular biology. The candidate should be able to teach general biology and upper-level courses in his/her area of expertise. The development of a research program involving undergraduates is expected. Submit curriculum vitae, transcripts, teaching philosophy, plan of proposed research, and the names and contact information for three references to: **Dr. Paula Dehn, Chair, Biology Department, Canisius College, 2001 Main Street, Buffalo, NY 14208, by January 5, 2000.** For additional information e-mail: Dehn@canisius.edu; Telephone: 716-888-2550 or visit website: www.canisius.edu/canhp/departments/biology. *Canisius College is an Equal Opportunity Institution and encourages applications from women and minorities.*

MICROBIOLOGIST—ASSISTANT PROFESSOR, tenure-track, Ph.D., September 2000; teach bacteriology, graduate courses in area of a specialty, microbiology for health science students, and lower-level biology courses. The candidate's potential as a teacher and as a director of undergraduate and graduate research are essential criteria. Preference is given to individuals with research background in microbiology and a record of publications in refereed journals. Application deadline is January 15, 2000. Midwestern State University is a liberal arts university with an enrollment of 5,800 students. The biology department offers both the B.S. and M.S. degrees in biology. Submit curriculum vitae, summary of past research and statement of proposed research, a copy of transcripts, a statement of educational philosophy, and a list of three references with their addresses and telephone numbers who are familiar with your teaching and research to: **Dr. William Cook, Chair, Biology Program, Faculty Search Committee, Midwestern State University, 3410 Taft, Wichita Falls, TX 76308-2099.** *Equal Opportunity/Affirmative Action Employer.*



Yale UNIVERSITY

Department of Molecular, Cellular, and Developmental Biology

The Department of Molecular, Cellular, and Developmental Biology at Yale University invites applications for a faculty appointment at the level of Assistant or Associate Professor (non-tenured). Individuals working in any area of molecular, cellular, or developmental biology are invited to apply. The department in particular seeks to strengthen its faculty in the areas of Neurobiology, Cell Biology, Vertebrate Development, and Microbiology. It is expected that the successful candidate will develop an active research group, interact with the department's faculty, and participate in interdisciplinary research and training opportunities. In addition, the successful candidate should demonstrate excellence in teaching at both the undergraduate and graduate levels.

Additional information on the Department of Molecular, Cellular and Developmental Biology and the research interests of its faculty can be found on our web site: <http://www.biology.yale.edu/>. Please send curriculum vitae, description of research interests and at least three recommendation letters by January 18, 2000, to: Search Committee, c/o Chairperson, Department of Molecular, Cellular and Developmental Biology, Yale University, P.O. Box 208103, New Haven, CT 06520-8103. Yale University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are especially encouraged to apply.

ENVIRONMENTAL SCIENCE AND POLICY AT U.C. BERKELEY



The Goldman School of Public Policy and the Energy and Resources Group at UC Berkeley seek a colleague for a joint appointment in the interdisciplinary area of Science, Technology, Environment, Resources, and Public Policy.

The successful candidate will have

- (1) Conducted academic research of the highest quality on policy issues related to science and technology, the environment, resource management, or related fields
- (2) formal training or extensive experience in both science (or engineering) and social science,
- (3) demonstrated engagement with a breadth of policy issues, and
- (4) enthusiasm for teaching demanding students accustomed to interactive and reflective pedagogy.

See the full position description at:

<http://socrates.berkeley.edu/~gspp/adf1.pdf>

or contact: Michael O'Hare, Search Chair
GSPP/2607 Hearst Ave.
Berkeley, CA 94720-7320

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Must have proven experience in assay development for infectious disease and taking products from concept to market launch. Participate in evaluating new technologies and new markers for infectious diseases. Proven technical leader experience a plus.

HEMATOLOGY

Experience in the development, manufacturing and/or support of diagnostic reagents.

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Minimum BS with 5+ years experience in Medical Diagnostics Industry

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- Hematology
- Urine Analysis Automation
- Automated Workflow Analysis
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Business Group
Diagnostics

POSITIONS OPEN

NEUROBIOLOGIST ASSISTANT PROFESSOR

Tenure-track opening for Neurobiologist in the Department of Biological Sciences at DePaul University starting September 2000. Successful candidate will be broadly trained in neurobiology with a strong commitment to undergraduate education. All sub-disciplines and animal model systems (invertebrate or vertebrate) considered. Ph.D. required; postdoctoral and previous teaching experience preferred. Teaching responsibilities to include some combination of: biology courses with laboratory for non-majors; co-teaching introductory biology sequence for majors; intermediate-level undergraduate course(s) in neurobiology; and graduate/advanced undergraduate course in candidate's area of expertise. Applicant should also exhibit willingness to participate in interdisciplinary programs. Modest research support and start-up funds available. The Department is housed in a new Biology and Environmental Sciences building that includes modern laboratory space and ample animal care facilities. Review of applications will begin December 15, 1999 and will continue until position is filled.

Please send: curriculum vitae; three letters of reference; statement of teaching and research interests; statement of your educational philosophy; and list of equipment and supply needs with cost estimates to: **Neurobiology Search Committee, Department of Biological Sciences, DePaul University, 2325 North Clifton Avenue, Chicago, IL 60614.** Additional inquiries to above address, or FAX: 773-325-7596; e-mail: jdean@wppost.depaul.edu. The Department of Biological Sciences seeks diversity in its faculty. We encourage applications from women, people of color, and the members of other historically underrepresented groups. DePaul University is committed to diversity and equality in education and employment.

The Biology Department at Coastal Carolina University invites applications for an **ASSISTANT PROFESSOR** in Developmental Biology, tenure-track position, beginning August 2000. Candidates are expected to have a Ph.D. in an appropriate biological discipline. In addition to developmental, molecular, and cell biology courses, teaching responsibilities will include introductory lectures and laboratories. Candidates for this position will be evaluated on experience and commitment to both teaching and involving undergraduates in research. The School of Natural and Applied Sciences at Coastal Carolina University has been recently recognized for excellence in undergraduate teaching and research by receiving a National Science Foundation AIRE Grant.

Each applicant should send a letter of recommendation, curriculum vitae, statements of teaching and research interest, and three (3) letters of reference to: **Dr. Joseph N. Pinson, Chair, Department of Biology, Coastal Carolina University, P.O. Box 261954, Conway, SC 29528-6054.** Consult our website: <http://www.coastal.edu/science/biology/bio.htm>, for more information about the department. Deadline for applications is January 15, 2000, or until position is filled. Coastal Carolina University is committed to Equal Employment Opportunity and is eager to identify minority persons and/or women with appropriate qualifications.

ASSISTANT PROFESSOR GENE THERAPY RESEARCH

Newly-established Musculoskeletal Disease Center is seeking individual with a strong background in experimental hematology and gene transfer technology to fill immediate opening for an Assistant Professor in gene therapy. Successful candidate will have an analytical and critical thinking skills and ability to work well in a large team of investigators. Experience in grant writing and a strong publication record is also an asset. Salary and benefits competitive; possibility exists for long-term position. Please send curriculum vitae, cover letter, and names of three references to: **David J. Baylink, M.D., Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.** Loma Linda University is an Equal Opportunity Employer.

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION MOLECULAR TOXICOLOGY Oregon State University

The Department of Environmental and Molecular Toxicology invites applications for a 12-month **ASSISTANT or ASSOCIATE PROFESSOR** position: 0.75 research, 0.25 teaching. The individual appointed will be expected to develop and maintain a strong externally funded independent research program, focused on molecular mechanisms of cellular responses to xenobiotics such as environmental chemicals or drugs, in a biological system relevant to human health; carcinogenesis is of high interest. Signal transduction and gene regulation related to cell-cycle checkpoints, apoptosis, or metabolic processing are of particular interest. Research approaches involving cancer genetics, transgenic animals, and genomics and bioinformatics are encouraged. Academic responsibilities include teaching one 10-week course in the departmental curriculum and mentoring M.S. and Ph.D. students. Candidates should have a doctorate in toxicology, biochemistry, molecular biology, or a closely related discipline, and at least two years postdoctoral experience. They should be qualified to participate in the unique constellation of NIEHS-supported activities at Oregon State University—the Environmental Health Sciences Center, the Marine/Freshwater Biomedical Sciences Center, and the Toxicology Training Grant—and to interact with colleagues in the Oregon State University Center for Gene Research. These centers maintain a wide range of research support cores, from cell culture, flow cytometry, pathology, and fish carcinogenesis to mass spectrometry and DNA analysis and synthesis. Candidates should send curriculum vitae, an outline of research plans and two to three reprints/preprints of their best representative publications, and arrange sending three letters of recommendation to:

**Professor Larry Curtis, Department Head
Department of Environmental
and Molecular Toxicology
Oregon State University—ALS 1007
Corvallis, Oregon 97331-7301**

Review of applications will begin on November 29, 1999, but applications will be accepted until the position is filled.

Oregon State University is an Affirmative Action/Equal Opportunity Employer, with a policy of being responsive to dual-career needs.

CELL BIOLOGY

The Department of Cell Biology at the University of Virginia has available a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. The department seeks candidates whose research will complement existing strengths in cellular, reproductive, and developmental biology. Candidates are expected to develop and maintain independent programs of investigation and to participate in graduate education. Applications are welcome from junior investigators as well as from mid-level investigators with established research laboratories. A program of training and reduced initial responsibility is available for medical teaching in cell biology/histology or anatomy. Opportunities for productive collegial interactions include interdisciplinary programs in cell and molecular biology, reproduction, development, neuroscience, cancer, signal transduction, cardiovascular biology, cell-matrix biology, biophysics, and structural biology, as well as participation in translational research with clinical faculty. Additional information about the department is available on-line at website: www.med.virginia.edu/medicine/basic-sci/cellbio. Candidates should submit curriculum vitae and description of research, and request that three letters of recommendation be sent by December 15, 1999; however, the position will remain open to applications until filled. Please send materials to: **Dr. Charles J. Flickinger, Chair, University of Virginia Health System, Department of Cell Biology, School of Medicine, P.O. Box 800732, Charlottesville, VA 22908-0732.** An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

BIOLOGY CHAIR UNIVERSITY OF NORTH FLORIDA

The University of North Florida seeks applications and nominations for the position of Professor and Chair of the Department of Biology. The successful candidate will have the responsibility of leading a growing biology program, currently composed of ten faculty and approximately 300 undergraduate majors. He/she will have the opportunity to provide visionary leadership for a newly structured Department of Biology in a dynamic urban environment. Candidates should have a Ph.D. in biology and should have experience in and a strong commitment to excellence in undergraduate education, scholarship, and external research funding. A strong desire to lead the development of a relatively young faculty is also essential. The successful candidate will have the opportunity to implement a new Bachelors program in environmental biology during the first year and develop a Master's degree program within the next five years. Full professors with experience in the above areas or associate professors with demonstrated potential in the above areas will be considered. This is a 12-month position with a starting date of August 7, 2000. A letter of interest, a curriculum vitae, and three letters of recommendation should be mailed to: **Biology Chair Search Committee, Department of Natural Sciences, University of North Florida, 4567 St. John's Bluff Road, South, Jacksonville, FL 32224.** Application deadline is December 31, 1999. *University of North Florida is an Equal Opportunity/Equal Access/Affirmative Action Institution.*

ASSISTANT PROFESSORS: The Department of Physiology invites applications from outstanding scientists with a Ph.D., M.D. or equivalent degrees for three tenure-track assistant professor positions. Of particular interest are candidates who will develop independent research programs in integrative biology using genetic engineering approaches to study physiological processes in tissues and whole animals. Additional areas of interest include molecular and biophysical approaches to cell physiology involving the fields of motility and the cytoskeleton in addition to transport and ion channels. However, the excellence of the successful candidates is more important than the particular area of research. These positions are part of the continuing growth of the Department at one of the country's leading academic medical centers and will be supported by significant laboratory space, competitive salaries and exceptional start-up packages. The University of Texas Southwestern faculty includes four Nobel Prize winners and 11 members of the National Academy of Sciences, and supports more than 1,900 research projects annually totaling more than \$160 million. Applicants should submit a curriculum vitae, a brief statement of research plans, and arrange to have three letters of reference sent to: **James T. Stull, Ph.D., Department of Physiology, The University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9040.** An Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK POSITION BIOLOGY

The Department of Biology in the College of Arts and Sciences at Virginia Tech invites applications for a tenure-track position in ecology, physiology, or evolution, beginning August 2000. Candidates with training and interest in plant/animal interaction are especially sought. Application details and a complete position description can be found at website: www.biology.vt.edu or by contacting **Dr. E. T. Nilsen**. Individuals with disability desiring accommodations in the application process should notify **Dr. E. T. Nilsen**, Biology Department, e-mail: enilsen@vt.edu, Telephone: 540-231-5674, TTY 1-800-828-1120 by the application deadline. Applications are due January 7, 2000. *The College of Arts and Sciences is deeply committed to recruiting, selecting, promoting, and retaining women, persons of color, and persons with disability. We strongly value diversity in the college community, and seek to assure equality in education and employment.*

Northwest Biotherapeutics, Inc.



Group Leader

Northwest Biotherapeutics is committed to developing cutting-edge, cell-based therapies against a range of cancers including prostate and brain.

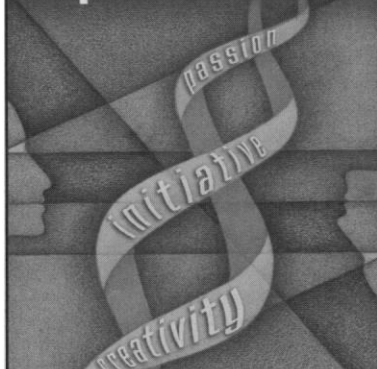
The ideal candidate will have a Ph.D. in Cellular Immunology or related field, and 6+ years of post-doctoral experience. Requirements include an extensive background and training in translational/applied cancer research. Must have supervisory experience and be highly self-motivated.

You will have a wide range of responsibilities, including designing, coordinating, and implementing scientific projects. You and your team will conduct research involving the immune response of patients being treated with our innovative therapies, as well as the development of novel vaccines.

If you are interested in joining a growing and successful team of excellent scientists dedicated to the improvement of cancer treatment, this is a great opportunity. Benefit from the high degree of responsibility and input available only in a dynamic organization that affords a great opportunity for travel and collaboration with both industrial and academic partners. If you are up to the challenge of truly making a difference, please submit a vitae and list of three references to: **Human Resources Department, Northwest Biotherapeutics, Inc., 120 Northgate Plaza, Suite 200, Seattle, WA 98125, Fax: 206-368-3009, mcdonal@nwbio.com**

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Working within the Cardiovascular Research Group, you will study the re-activation of the gamma-globin gene in erythroblast. To qualify, you must possess a PhD in Cellular or Molecular Biology or related area along with 2-3 years relevant post doc experience. A background in setting up and running cell-based assays is preferred, as is a broad understanding of hematology. A thorough understanding of hematopoiesis would be a plus. Job Code SCI1195

Senior Director-Structural Chemistry

Reporting to the Senior Vice President of Research, this senior management position will oversee the current BioOrganic Chemistry and Protein Engineering groups and will be key to expansion in these areas. We will rely on this individual to work collaboratively with other senior research managers in charting overall research strategies. This position requires an extensive background in medicinal and pharmaceutical development, as well as small molecule discovery. Experience managing scientists and determining research and project priorities is required, as are excellent communication skills. Demonstrated technical innovation is highly preferred. Job Code SCI1218

We offer industry leading benefits and a dynamic environment dedicated to scientific progress. To apply for any of the above positions, send your resume, indicating appropriate Job Code, to: Genentech, Inc., Human Resources, PO Box 1950, South San Francisco, CA 94083-1950 (plain typefaces, please) or email your resume to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). We cannot accept faxed resumes. EOE.

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ROBERT C. BYRD HEALTH SCIENCES CENTER

OF WEST VIRGINIA UNIVERSITY

TENURE-TRACK FACULTY POSITION SIGNAL TRANSDUCTION

The School of Medicine invites applications for a tenure-track ASSISTANT or ASSOCIATE PROFESSOR position available Summer 2000. We seek a scientist investigating intracellular signaling events relevant to development, regeneration, normal cell biology or pathology of any of the neurosensory systems. This individual will join an interactive, multidisciplinary group studying fundamental questions in **sensory neuroscience**. The successful candidate is expected to establish a vigorous, independent research program and contribute to the teaching mission of the Neuroscience Graduate Program, which is expanding as part of a major initiative in Neurosciences. The successful candidate will receive a competitive startup package and salary and newly renovated laboratory space. Outstanding applicants that hold Ph.D. or M.D. degrees with established records of research productivity are invited to send a statement of research interests and professional goals, a curriculum vitae, reprints of publications, and arrange to have three letters of recommendation sent by January 10, 2000 to George Spirou, Ph.D., Search Committee Chair, Department of Otolaryngology, West Virginia University HSC, Morgantown, WV, 26506-9200.

West Virginia University is an Equal Opportunity/Affirmative Action Employer

DEPARTMENT OF MATH, SCIENCE AND TECHNOLOGY

SCIENCE EDUCATION

Position: Science educator with expertise in chemistry education and preferably a research and/or teaching interest in educational technology. Preference will be given to candidates with experience in secondary school teaching and clear evidence of success or promise as a productive researcher and outstanding teacher. The Program stresses the preparation of leaders in education to be both successful scholars in their discipline as well as theoretically and practically based educators.

Responsibilities: Assume major responsibility for the teacher education preservice program in science education and will be expected to collaborate with other teacher educators in the College's professional development schools. Teach graduate courses in science and science education; advise students; supervise student teaching and interns; conduct research in science teaching or learning; and, supervise doctoral students.

Qualifications: Earned doctorate in science or science education. Extensive elementary/secondary/college teaching experience. Evidence of research and professional productivity, including promise of obtaining extramural funding. Commitment to excellence in teaching.

Rank: Assistant/Associate Professor, Tenure Track.

Send CV, a letter of intent including a statement of research and teaching interests, recent representative publications and three letters of reference to Professor O. Roger Anderson, Search Committee Chair, Box 210.

Review of applications will begin immediately and continue until the search is completed.

This position has been authorized at the rank listed above. However, a very distinguished nationally known senior scholar will also be considered if there is a particularly good fit between Teachers College's needs and the candidate.

TEACHERS COLLEGE as an institution is committed to a policy of equal opportunity in employment. In offering education, psychology, and health studies, the College is committed to providing expanding employment opportunities to minorities, women, and persons with disabilities in its own activities and in society. Candidates whose qualifications and experience are directly relevant to College priorities (e.g., urban and minority concerns) may be considered for higher rank than advertised.

**TEACHERS COLLEGE
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525 West 120th Street, New York, NY 10027

<http://www.tc.columbia.edu>

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF PHYSIOLOGY University of Florida College of Medicine

The Department of Physiology invites outstanding applicants for a tenure-track Faculty position at the Assistant Professor level. The successful candidate will be expected to develop a strong, extramurally supported, independent research program in the field of cardiovascular genomics. The department is ranked ninth nationally in research dollars/faculty and excels in teaching professional and graduate students. The position will complement current departmental strengths in gene therapy for hypertension and cardiovascular disease. The college has a Mammalian Genetics Center, Hypertension Center, and Gene Therapy Center. Salary is negotiable based on qualifications and experience. An excellent start-up package includes initial support from the Howard Hughes Medical Institute Research Resources Program for Medical Schools grant to the College of Medicine. Applicants must have a Ph.D., M.D., or their equivalents, postdoctoral experience, and an excellent record of research productivity and quality. Submit a curriculum vitae, including a statement of research plans, and names of at least three references to: **Mohan K. Raizada, Ph.D., Professor of Physiology and Chair of Search Committee, P.O. Box 100274, University of Florida College of Medicine, Gainesville, FL 32610-0274.** Application deadline: December 31, 1999. Anticipated start date: July 1, 2000. *The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

ASSOCIATE/ASSISTANT PROFESSOR WILMER OPHTHALMOLOGICAL INSTITUTE Laboratory of Corneal Immunology and Infectious Disease

The Wilmer Ophthalmological Institute of the Johns Hopkins University School of Medicine seeks a highly qualified candidate to fill the position of a research scientist at the level of Associate/Assistant Professor in the Laboratory of Corneal Immunology and Infectious Disease. Candidates should have a Ph.D. or equivalent with an outstanding research record. The successful candidate will be expected to help develop an independent, extramurally funded research program. The focus of the research will be on the molecular and cellular pathways involved in various infections and immunological diseases of the anterior segment of the eye. Applicants are invited to submit a curriculum vitae, representative reprints, names of at least three references and a statement of career goals to:

Terrence P. O'Brien, M.D.
Maumenee 313
Wilmer Ophthalmological Institute
Johns Hopkins Hospital
600 North Wolfe Street
Baltimore, MD 21287
E-mail: jgotts@jhmi.edu

Applications should be received by January 1, 2000. The search will continue until the position is filled. *Johns Hopkins University is an Affirmative Action/Equal Opportunity Employer.*

The University of Virginia, Department of Psychology, is searching for two tenure-track **ASSISTANT PROFESSORS** to begin August, 2000. We are interested in applicants with a Ph.D. degree and with outstanding research programs in any area of psychology or cognitive psychology. To apply, send a curriculum vitae, three or more letters of recommendation, and copies of relevant publications to the **Chair of either the Psychobiology Search Committee or Cognitive Search Committee, c/o the Department of Psychology, 102 Gilmer Hall, University of Virginia, Charlottesville, VA 22903-2477.** Deadline for receipt of applications is November 15, 1999. Applications and supporting materials must be complete by the deadline. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged.*

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR DEVELOPMENTAL BIOLOGY

The Department of Biological Sciences, Ohio University, Athens, Ohio, invites applications for a full-time, tenure-track molecular developmental biology position at the Assistant Professor level beginning fall 2000.

Candidates with a specific interest in molecular mechanisms of development and research expertise in developmental genetics and gene expression are invited to apply. An earned doctorate in developmental biology or some related field of biology, at least two years of postdoctoral experience, and evidence of scholarly research activity are required. Candidates are expected to develop an independent, fundable research program. Current strengths of the Biological Sciences Department include physiology, evolutionary biology and ecology, and neuroscience. The individual filling this position will teach genetics and develop an upper-division and a graduate course in developmental biology. Salary and start-up funds are competitive; benefits package is excellent. Please submit a letter of application, curriculum vitae, summary of research program and teaching experience, and three letters of recommendation to: **Ms. Jean Witkowski, Search Committee, Molecular Developmental Biology, Department of Biological Sciences, Ohio University, 107A Irvine Hall, Athens, OH 45701-2979; website: www.cats.ohiou.edu/~biosdept/index.html.** Please include contact information for the three referees (address, telephone number, and e-mail address) in your letter of application. Review of applications will begin on December 20, 1999.

Ohio University is an Affirmative Action/Equal Opportunity Employer.

BIOLOGY—One-year, full-time VISITING ASSISTANT PROFESSOR to teach genetics, human inheritance, part of an introductory biology course (Biology of Cells), and to direct undergraduate research in the College's Independent Study Program. Ph.D. is required. Postdoctoral research and/or teaching experience is preferred. Send applications to: **Dr. Michael Kern, Biology Department, 931 College Street, Wooster, OH 44691.** Applications should include transcripts and curriculum vitae. Applicants should arrange to have three letters of recommendation sent as well. Closing date: January 15, 2000.

The College of Wooster is an independent college of the liberal arts and sciences with a commitment to excellence in undergraduate education. The College values diversity, strives to attract qualified women and minority candidates, and encourages individuals belonging to these groups to apply. Wooster seeks to ensure diversity by its policy of making appointments without regard to age, sex, race, creed, national origin, disability, handicap, sexual orientation, or political affiliation. The College is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR MOLECULAR NEUROBIOLOGY DEPARTMENT OF NEUROBIOLOGY AND BEHAVIOR University of California, Irvine

Applications are invited for a tenure-track position at the level of **ASSISTANT PROFESSOR** in molecular neurobiology. The Department of Neurobiology and Behavior emphasizes interdisciplinary approaches to the study of neural plasticity and behavior. Preference will be given to applicants whose research interests integrate with current Departmental research themes, which include learning and memory, integrative neuroscience, and development and neuronal reorganization following injury or disease. Please submit by January 10, 2000, a curriculum vitae, description of research interests, and the names and addresses of three potential referees to: **Chair, Department of Neurobiology and Behavior, University of California, 2205 Bio Sci II, Irvine, CA 92697-4550. Website: <http://darwin.bio.uci.edu/neurobio/>.**

The University of California, Irvine is an Equal Opportunity Employer committed to excellence through diversity.

POSITIONS OPEN

THE CITADEL BIOLOGY FACULTY POSITIONS

DEPARTMENT HEAD: The Department of Biology at The Citadel consists of nine permanent faculty who provide strong programs for approximately 100 undergraduate majors and 20 graduate students working toward the Master of Arts in Education and Master of Arts in Teaching degrees. Candidates should have the Ph.D. in biology or a subdivision, experience in undergraduate and graduate teaching, demonstrated ability to obtain grants, published research, and a collegial attitude toward administration and leadership. (Job #F99-17).

ASSISTANT PROFESSOR: Tenure-track position. Candidates should have a Ph.D. in biology or a subdivision and be committed to teaching and research in a comprehensive college setting. Primary teaching responsibilities will include the upper-level animal physiology and human anatomy sequences and participation in the department's introductory biology courses. (Job #F99-19).

Letter of application, transcripts, curriculum vitae, and names of at least three references must be received no later than 5:00 p.m. on 10 January 2000. Send all applications and materials to: **Human Resources, The Citadel, 171 Moultrie Street, Charleston, SC 29409. FAX: 843-953-5228.** You may also submit application and materials online at website: <http://hrweb.citadel.edu/jobs.cfm>. Please reference job number and position in application. *The Citadel is an Affirmative Action/Equal Employment Opportunity Employer, dedicated to multi-cultural diversity in campus leadership positions.*

ASSISTANT PROFESSOR DEPARTMENT OF NEUROSCIENCE University of California, Riverside

A tenure-track position available beginning July 1, 2000, in the Department of Neuroscience, University of California, Riverside. We seek an outstanding individual using cellular/molecular/genetic approaches to address basic questions in the broad area of neuroscience, particularly but not limited to developmental questions. Ph.D. or equivalent is required; postdoctoral experience is strongly preferred. It is expected that the successful candidate will establish an independent, externally-funded research program, participate in the Interdepartmental Graduate Programs in Neuroscience and Cell, Molecular and Developmental Biology, and teach neuroscience courses at graduate and undergraduate levels. Application deadline: December 10, 1999. Send curriculum vitae, copies of publications, statements of research and teaching interests, and name, address, telephone and FAX numbers for at least three potential references to: **Chair, Faculty Search Committee, Department of Neuroscience, University of California, Riverside, CA 92521.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT, ASSOCIATE, OR FULL PROFESSOR POSITIONS IN CHEMICAL BIOLOGY The University of Wisconsin-Madison

The University of Wisconsin-Madison is seeking to fill two faculty positions in chemical biology, which are part of a new campus-wide initiative involving chemists, biologists, and engineers. The successful candidates will develop independent research programs that integrate chemical and biological approaches to address fundamental problems. Further information about these positions and the chemical biology initiative at University of Wisconsin-Madison can be obtained from: website: <http://www.plantpath.wisc.edu/chembio>. Candidates should send a letter of interest, curriculum vitae, and names and addresses of three references by December 20, 1999 to: **Chemical Biology Positions, c/o Professor Laura Kiessling, Department of Chemistry, 11011 University Avenue, Madison, WI 53706.** *The University of Wisconsin-Madison is an Equal Opportunity Employer, and women and minorities are especially encouraged to apply.*



Informatics

Ultra Rapid Antimicrobial Drug Discovery and Development

Elitra is an emerging and dynamic biotechnology company employing ultra-rapid proprietary methods for gene analysis and anti-microbial drug discovery. The company is located in the heart of San Diego's biotechnology community. We recently completed a significant round of financing and are currently seeking highly motivated, quantitative scientists capable of growing with the company into positions of increasing responsibility.

Bioinformatics ORACLE Database Developer: We are seeking an experienced ORACLE developer to design and implement complex database schemas using ORACLE 8.x for use in antibiotic drug discovery. Candidate must have in-depth experience with ORACLE 8.x, data modeling, developing triggers, writing PL/SQL and Perl. Candidates with experience in bioinformatics or molecular biology would be a major asset. Three to five years minimum experience, at least an M.S. in Computer Science or related field. (Job Code: S10279901)

Bioinformatics Applications Programmer: We are seeking an experienced ORACLE applications developer for Windows NT client applications and an intranet Web environment for accessing R&D databases in antibiotic drug discovery. Candidate must have in-depth experience with bioinformatics algorithms and at least 3 years applications development experience in C++, Perl and Java. Minimum of M.S. in Computer Science or related field. (Job Code: S10279902)

Bioinformatics Scientist: We are seeking an experienced Bioinformatics Scientist for performing DNA and protein sequence analysis for genomics experiments generated in antibiotic drug discovery. The candidate should have in-depth knowledge of bioinformatics algorithms applied to sequence analysis, preferably with the ability to develop Perl scripts for automation. Experience with comparative genomics methods in bacterial organisms would be a major asset, with a Ph.D. in Bacteriology or related field. (Job Code: S10279903)

Cheminformatics Database Administrator: We are seeking an experienced ORACLE database administrator with experience in managing chemistry information for drug discovery. The ORACLE database will support the discovery efforts in chemistry and high-throughput screening. Candidate should have in-depth knowledge of PL/SQL, ORACLE performance tuning and distributed databases. Experience with RS3 an advantage. Three to five years minimum experience, at least an M.S. in Computer Science or related field. (Job Code: S10279904)

Cheminformatics Scientist: We are seeking an experienced cheminformatics scientist to support our in-house chemical screening efforts and compound library acquisitions for antibiotics research and development. Candidate must have in-depth knowledge of computational systems for performing 2D/3D searching, assessing compound library diversity, characterizing and designing combinatorial libraries, and the integration of chemical structures into corporate databases. Three years minimum pharmaceutical or biotechnology experience, with a Ph.D. in Chemistry or related field. (Job Code: S10279905)

Computational Chemist: We are seeking an experienced computational chemist to perform analysis for lead discovery and optimization for novel antibiotic development. Analyses include structure-activity relationship analysis, QSAR, pharmacophore identification, modeling of small molecule interactions and the design of small molecules and combinatorial libraries. Three years minimum pharmaceutical or biotechnology experience, with a Ph.D. in Chemistry or related field. (Job Code: S10279906)

Elitra offers competitive salaries, stock options, and excellent benefits including medical and dental, 401(k). If you have a desire to deliver promising therapeutics to the people who need them most, submit your resume referencing code to: Elitra Pharmaceuticals, Inc., Job Code (see above), 3510 Dunhill Street, San Diego, CA 92121. EOE.



**St. Jude Children's
Research Hospital**
ALBAC • Danny Thomas, Founder

POSTDOCTORAL RESEARCH ASSOCIATE

Position is available for NIH funded research for a recent Ph.D graduate to join our group in the study of insulin like growth factor signaling on growth and survival of malignant cells (Cancer Res 59:886, 1999; Mol. Pharmacol 54:815, 1998; Science 277:99, 1997). Applicants should have a strong background in molecular pharmacology and molecular/cell biology techniques. Send curriculum vitae with names of 3 references to:

Dr. Peter Houghton
Department of Molecular Pharmacology
St. Jude Children's Research Hospital
332 N. Lauderdale
Memphis TN 38105-2794

Equal Opportunity/Affirmative Action Employer

Faculty Positions in Cancer Research LSU Health Sciences Center

The Stanley S. Scott Cancer Center at LSU Health Sciences Center in New Orleans invites applications for tenure track or tenured positions at the Associate Professor or Professor level. Candidates should possess a Ph.D. or M.D. degree and have demonstrated excellence in their research as indicated by both publications and a track record of externally funded research grants. The successful applicants will be expected to pursue an independent, yet collaborative approach, addressing broad issues that relate to oncologic science. Research interests in prostate and/or lung cancer are encouraged but not required.

The search will give full consideration to applications that include a curriculum vitae (including funding grant history), four representative publications, and the names of three individuals that may be contacted for letters of reference.

Joint appointments in the Cancer Center and an appropriate Department at the LSU Medical School are anticipated. The individual Departments will be dependent on the successful applicants' expertise and interests. Laboratory space will be provided in a new state of the art facility in the heart of the Medical School complex. LSUHSC is an EOE/AA.

Interested candidates should submit their curriculum vitae to **Dr. Oliver Sartor, Director, Stanley S. Scott Cancer Center, Suite 620, 2025 Gravier Street, New Orleans, Louisiana 70112.**



The Center for Marine Science and Technology (CMAST), University of Massachusetts Dartmouth invites applications for two tenure track/tenured positions at the Assistant to Full Professor level: 1) oceanographer with a research focus on the physical, biological or chemical oceanography (preferred emphasis on the Northwest Atlantic Ocean and interdisciplinary oceanography); and 2) an underwater engineer with specific focus on the development of underwater vehicles as sensor platforms. Successful applicants will be expected to have developed or have the potential to develop externally funded research programs and to have a commitment to teaching. Minimum requirements for the positions include a Ph.D. and accomplishments commensurate with the specified academic rank. See our website at cmast.umassd.edu for additional details. UMass Dartmouth is an AA/EEO Employer. Send letter of application, full curriculum vitae, statement of research and teaching interests, and names and addresses, phone number, fax number, and e-mail address of four references to:

**Joseph C. Deck, Search and Screen
CMAST
706 S. Rodney French Boulevard
New Bedford, MA 02744-1221**

POSITIONS OPEN

ST. CLOUD STATE UNIVERSITY. Two tenure-track appointments, **ASSISTANT PROFESSOR**, beginning August 28, 2000. **BIOCHEMISTRY.** Ph.D. in chemistry is required with emphasis in biochemistry or Ph.D. in biochemistry. **ORGANIC CHEMISTRY.** Ph.D. in chemistry is required with emphasis in organic chemistry. For both positions: a secondary area of expertise that is complementary to the department will be given preference. Teaching experience desirable. Primary duties: teaching undergraduate courses in area of expertise and general chemistry, directing undergraduate student research, and advising students. Faculty will be required to demonstrate the following: ability to teach and/or perform effectively; scholarly achievement or research; continued preparation and study; contribution to student growth and development; service to the university and community. The successful candidates will have demonstrated ability to teach and work with persons from culturally diverse backgrounds. Salary is dependent upon qualifications and experience. The Chemistry Department has fourteen full-time faculty positions and offers an American Chemical Society-approved program. Candidates should specify for which position they are applying. The completed application must include a letter of application, curriculum vitae, a completed application form (which will be sent to applicant upon receipt of application letter), transcripts (photocopies acceptable for screening), and three to five recent letters of reference. Applications should be sent to: **Dr. Mehroo Cooper, Chair, Chemistry Department, MS-358, Saint Cloud State University, 720 Fourth Avenue South, Saint Cloud, MN 56301-4498. Telephone: 320-255-3031; FAX: 320-255-4262; e-mail: bfrie@stcloudstate.edu.** The postmarked deadline for the receipt of all application materials is December 15, 1999. Materials postmarked after this date cannot be guaranteed consideration. All finalists will be required to give a seminar during the interview process. The successful candidates will be required to provide official transcripts sent directly from the appropriate institutions. *Affirmative Action/Equal Employment Opportunity employer and educator. St. Cloud State University is committed to excellence and actively supports cultural diversity. To promote this endeavor, we invite individuals who contribute to such diversity to apply, including minorities, women, persons with disability and veterans.*

FACULTY POSITION Kansas State University

The Department of Anatomy and Physiology in the College of Veterinary Medicine invites applications for a 12-month, tenure-track **ASSISTANT or ASSOCIATE PROFESSOR** position beginning July 1, 2000. We seek an individual who will complement the research strengths within the department and college. Active NIH- and U.S. Department of Agriculture-funded programs in the department are focused on cell and molecular physiology, neuroscience, cardiovascular and respiratory physiology, molecular pharmacology, and immunophysiology ([website: www.vet.ksu.edu/depts/ap](http://www.vet.ksu.edu/depts/ap)). The teaching component of the position involves contributing to a team-taught pharmacology course in the Doctor of Veterinary Medicine curriculum, and graduate studies. Applicants for an Associate Professor rank must have an outstanding record of productivity. D.V.M. and/or Ph.D. or equivalent are required. Applicants should submit curriculum vitae, selected reprints, statement of research and instructional interests, and have three letters of reference sent to: **Frank Blecha, c/o B. J. Thompson, Department of Anatomy and Physiology, Kansas State University, VMS 228, 1600 Denison Avenue, Manhattan, KS 66506-5602.** Review of applications will begin on December 15, 1999 and continue until the position is filled. *Kansas State University is an Equal Opportunity Employer and actively seeks diversity among its employees.*

POSITIONS OPEN

BIOLOGY ASSISTANT PROFESSORS. The Department of Biology at Keene State College invites applications for two tenure-track positions at the Assistant Professor level beginning fall 2000. **PLANT SYSTEMATICS/PLANT CONSERVATION BIOLOGY:** The ideal candidate can teach undergraduate courses in plant taxonomy and phylogeny, field botany, plant anatomy and morphology, plant conservation biology, and general education; supervise undergraduate research; and manage a small herbarium. **Qualifications:** Require Ph.D. completed by February 1, 2000, in botany, plant systematics, plant conservation biology, or related field; strong commitment to undergraduate teaching, to liberal arts education, and to an integrated biological perspective; good general knowledge of biology; some undergraduate teaching experience. Preference will be given to candidates with training in phylogenetic theory and analysis, familiarity with molecular systematics, a broad knowledge of plant natural history, and a good knowledge of the New England flora. **DEVELOPMENTAL BIOLOGY:** The ideal candidate can teach undergraduate courses in developmental biology, cell biology, and introductory and non-major biology and supervise undergraduate research; has an integrated biological perspective and a good general knowledge of biology; and has a strong commitment to undergraduate teaching and to liberal arts education. Preference will be given to candidates with a broad background in developmental biology, including classical embryology and morphogenetic analysis, as well as modern molecular approaches to epigenetic control mechanisms. Knowledge of a specific group of organisms desirable. **Qualifications:** Require Ph.D. completed by February 1, 2000, in biology, developmental biology, or related discipline; some undergraduate teaching experience. **Minimum salary for Assistant Professor: \$38,540.** Keene State College is a public liberal arts college of the University System of New Hampshire with an enrollment of 5,000 students. The College has been recognized for its commitment to its mission, its broad-based strategic planning initiatives, and its cohesive sense of community. The College is located in the scenic Monadnock Region of southwest New Hampshire, near experimental forests and national forests. It owns the 400-acre Louis Cabot Preserve on Lake Nubanusit, while the City of Keene owns extensive conservation lands. The Biology Department prides itself on its strong curriculum and vigorous commitment to undergraduate education. Submit letter of application, curriculum vitae, clear description of undergraduate teaching experience, statement of teaching philosophy/methods, statement of research interests, and three letters of reference (addressing candidate's undergraduate teaching experience) by December 17, 1999, to: **Botany Search Committee or Developmental Biology Search Committee, Office of Human Resource Management, Keene State College, 229 Main Street, Keene, NH 03435-1604.** Keene State College is a member of the Council of Public Liberal Arts Colleges, a national alliance of leading liberal arts colleges in the public sector. *As an Affirmative Action/Equal Employment Opportunity employer, we actively seek women and minority candidates.*

BIOCHEMICAL SPECIALIST/SENIOR BIOCHEMICAL SPECIALIST

Provide technical leadership and "hands-on" participation in QC Biochemical laboratory. Industry experience in protein analysis and analytical instrumentation required. Experience with MAb, stability testing, raw materials testing, and regulatory requirements desired. Ph.D. in biochemistry, analytical chemistry, equivalent discipline, or M.S. with sufficient professional experience. **SmithKline Beecham, Ad Code: 990095, P.O. Box 40047, Philadelphia, PA 19106.** Indicating Ad Code is essential. Principals only. Online submission [website: www.sb.com/careers](http://www.sb.com/careers). *Equal Opportunity Employer, Minority/Females/Disabled/Veterans.*

POSITIONS OPEN

DEVELOPMENTAL BIOLOGIST

A position is available at the **ASSISTANT PROFESSOR** level for a Developmental Biologist. Teaching responsibilities will include an elective course in developmental biology, opportunity to share a general genetics course, contribution to the freshman curriculum, and opportunity to develop a graduate course in the candidate's area. A Ph.D. is required by August 2000, and an active research program is expected. The position will be either tenure-track at competitive salary, or a three-year-renewable appointment at the national average salary for this rank in biology, by mutual agreement.

The Department of Biology ([website: www.uca.edu/biology/bio_hp/](http://www.uca.edu/biology/bio_hp/)) contains 22 regular faculty, all with doctorates. We serve about 400 majors and 20 graduate students. About 1,500 students per year take our General Education Biology course, and we offer several service courses for health science students. Multiple computer stations are employed in introductory biology courses, cell biology and other physiology courses, and most rooms have optical fiber access to mainframe, library, and Internet. Conway is a prosperous city of 40,000 which hosts two other colleges and is an easy drive from both Little Rock and pristine wild areas, such as the Buffalo National River and Ozark Mountains.

By January 5th, 2000, submit curriculum vitae, statements of teaching philosophy and research plans, and the names of three references to: **Dr. Paul Hamilton, Department of Biology, University of Central Arkansas, Conway, AR 72035.** *An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR of Pharmaceutical Chemistry. The Department of Pharmaceutical Chemistry at The University of Kansas ([website: http://www.hbc.ukans.edu/phch/phch.htm](http://www.hbc.ukans.edu/phch/phch.htm)) is seeking applicants for a tenure-track, Assistant Professor position. Candidates must have a Ph.D. or equivalent degree, and postdoctoral experience is desirable. The successful candidate will be expected to develop an independent, externally funded research program that includes multidisciplinary collaborations, and to participate in teaching activities in the School of Pharmacy's professional program and in the Department's graduate program. Preference will be given to candidates with broad backgrounds in physical pharmacy, pharmaceutical chemistry (pharmaceutics) or, physical chemistry, biophysics, bioengineering, or related fields as applied to pharmaceutical chemistry. The review process will begin after January 15, 2000, and continue until the position is filled. Applications should include: a curriculum vitae, a concise summary of past research and future research plans, and the names of three references. Contact: **Dr. Kenneth L. Audus, Department of Pharmaceutical Chemistry, The University of Kansas, 2095 Conant Avenue, Lawrence, KS 66047-2504. Telephone: 785-864-3609.** *Equal Opportunity/Affirmative Action Employer.*

STRUCTURAL BIOLOGIST ELECTRON MICROSCOPIST

We seek applications from scientists who use electron microscopy to study macromolecules and/or supramolecular complexes. This tenure-track faculty position will be filled at the rank of **ASSISTANT PROFESSOR**; it offers an exceptional opportunity for a vigorous scientist to establish a world-class laboratory in a supportive research and teaching environment. Completed applications must include curriculum vitae, publications, short summary of scientific interests (<three pages), and three evaluative letters from knowledgeable referees, solicited by the applicant and sent directly to Boulder. All materials must be postmarked by December 31, 1999 and sent to:

**Structural Biology Search
Molecular, Cellular,
and Developmental Biology
University of Colorado
Boulder, CO 80309-0347**

The University of Colorado at Boulder is committed to diversity and equality in education and employment.

ENTREMED

EntreMed, Inc., The Angiogenesis Company™, discovers, develops and commercializes antiangiogenic therapeutics for the treatment of diseases such as cancer and heart disease. Our growth has led to the following job opening:

Associate Director Molecular Biology

Candidate must possess a Ph.D. in Molecular Biology, or equivalent, with 8+ years of experience in molecular cloning and expression systems since degree. Must also have strong working knowledge of receptor-ligand interaction. Department focuses on the efficient expression of foreign proteins in various systems (*Pichia pastoris*, *E. coli*, mammalian cells, baculovirus). The successful candidate will be responsible for leading a team of molecular biologists by planning, strategizing, and directing departmental efforts to achieve R&D objectives. Excellent written and oral communication skills required with an ability to apply critical thinking, and to generate and implement ideas within tight timelines.

EntreMed offers a competitive salary and benefits package, a supportive and challenging working environment and opportunities for professional growth. Qualified applicants should submit a resume with current salary and three professional references to:

Human Resources Department
9640 Medical Center Drive
Rockville, MD 20850
FAX: (301) 315-2437
Email: pattys@entremed.com
No Phone Calls Please
EOE M/F/D/V

Please visit our web site at www.entremed.com

Fred Hutchinson Cancer Research Center

POST-DOCTORAL, RESEARCH ASSOCIATE, AND STAFF SCIENTIST POSITIONS

Immediate **Post-doc** opening for Ph.D. or M.D. /Ph.D. to study the biology of stress-inducible MHC molecules & their interactions w/ activating receptors on NK cells & T cells in infectious diseases & tumor immunology (see: *Science* 279:1737, 1998; *PNAS* 96:6879, 1999; *Science* 285:727, 1999). Prefer enthusiastic candidates w/ strong practical skills in cell culture, molecular biology & basic protein biochemistry. Send CV, a statement of research background, & names, addresses, & phone numbers of two references to: **Thomas Spies (Ph.D.), Fred Hutchinson Cancer Research Center, 1100 Fairview Ave. N., D1-100, Seattle, WA 98109. FAX: 206-667-5978; e-mail: tspies@fred.hcr.org.**

The Fred Hutchinson Cancer Research Center is seeking a **Staff Scientist** to be part of a newly developed, shared resource bridging Clinical & Basic research at the Center. The facility is funded by an NIH grant for the Core Center of Excellence in Molecular Hematology. This staff scientist will develop & maintain a Core facility for production of various cDNA libraries from human bone marrow stem cells & other defined populations in conjunction with ongoing NIH funded research at the Center. An additional function is to incorporate & integrate new technologies for characterization & propagation of useful library clones, & for general improvements expanding the usefulness of the facility. The salary is \$40,000 per year but may be higher depending on experience.

Please send resumes to the address below by December 15, 1999.

Dr. Larry R. Rohrschneider, Division of Basic Sciences, Fred Hutchinson Cancer Research Center, 1100 Fairview Ave. N., Mailstop B2-152, P.O. Box 19024, Seattle, WA 98109-1024

Research Associate to design & perform studies to improve gene transfer into hematopoietic cells & develop strategies to improve the survival of gene-modified cells in animal models. Requires a Ph.D. or M.D./Ph.D. in related field, experience w/ retroviral gene transfer, molecular biology, immunologic assays & flow cytometry. Requires flexibility, ability to work effectively w/ team as well as independently, & good communication skills. Send CV to: **Fred Hutchinson Cancer Research Center, Human Resources #10091, 1300 Valley Street, Seattle, WA 98109 or Fax to #10091, 206-667-4051.**

Fred Hutchinson Cancer Research Center is an equal opportunity employer.



MAYO CLINIC

POSTDOCTORAL POSITIONS

Postdoctoral positions are available immediately to study the biochemical and molecular aspects of breast/ovarian cancer and the roles of tumor suppressor genes p53, BRCA1 and BRCA2. A strong background in molecular and cellular biology is essential. Prior experience in working with mice is preferred. Please send curriculum vitae and the names of three references to:

Junjie Chen, Ph.D.
Department of Radiation Oncology
Guggenheim Building, 13th Floor
Mayo Clinic
200 First St., SW
Rochester, MN 55905

Mayo Foundation is an affirmative action and equal opportunity employer and educator.



RESEARCH OPPORTUNITIES THE BIOCURRENTS RESEARCH CENTER (NIH:NCRR) MARINE BIOLOGICAL LABORATORY

Three (3) research positions are available at the Marine Biological Laboratory from December 1st at the BRC, funded as a bioengineering resource by the National Center for Research Resources of the NIH (www.ncrr.nih.gov/ncrrprog/btdir/bt-cont.htm).

The positions are:

- **Assistant Scientist, Cell Physiologist** - reference: [BRC ASMT] To join a team funded to develop and apply instrumentation for monitoring the activity of ions and molecules at the single cell level. Will be expected to establish an independent research program fundable by the NIH and compatible with the interests of the BRC (see web site listed below). Preferably have demonstrated competence in electrophysiology and/or imaging technologies and hold a Ph.D. or equivalent with postdoctoral experience. Position equivalent to an Assistant Professor.
- **Post-doctoral Electrochemist/Biologist** - reference: [BRC PDE] To carry forward a program developing ultramicro electrochemical and biosensors within a self-referencing electrode configuration. The applicant should have a background in electrochemistry but with demonstrated interest in applying this knowledge to biomedical applications. Should look forward to working with a diverse collection of visiting investigators.
- **Research Assistant, Instrument Support and Development** - reference: [BRC RAS&D] To assist in the maintenance and construction of diverse scientific instruments. Should have a demonstrated competence and enthusiasm for electrical engineering, be comfortable with computers, electronics and mechanical hardware. Ability more important than formal qualifications.

Further information on the BioCurrents Center can be located at www.mbl.edu/BioCurrents. Position information can be found at the MBL web site www.mbl.edu/jobs. Applicants should submit a curriculum vitae, transcripts, name, address, telephone and email (if available) of three (3) references to: **Marine Biological Laboratory, attn: Human Resources (include the reference), 7 MBL Street, Woods Hole, MA 02543; telephone: (508) 289-7422; email resume@mbledu.** Positions will remain open until suitable candidates are identified.

An Equal Opportunity/Affirmative Action Employer/Non-smoking workplace

POSITIONS OPEN

POPULATION ECOLOGY University of California, Riverside

The Department of Biology invites applications for a position in population ecology at the Junior (tenure-track **ASSISTANT PROFESSOR**) or Senior (tenured **ASSOCIATE** or **FULL PROFESSOR**) level. We seek an individual who studies natural populations from an evolutionary perspective, using both theoretical and empirical approaches. Areas of expertise include metapopulation dynamics, invasion ecology, or conservation biology; use of population or quantitative genetics in modeling and/or empirical studies is desirable. The successful candidate will establish a vigorous research program, contribute to undergraduate and graduate training, and participate in our interdepartmental graduate research units in genetics and in evolution and ecology; participation in our new Center for Conservation Biology is also encouraged. All applicants must have a Ph.D. degree, two or more years of postdoctoral training, and a strong record of research accomplishment. Senior applicant must also have an excellent teaching record. A curriculum vitae, statement of research interests, and at least three letters of reference (as well as names and addresses of references for senior applicants) should be sent to: **Chair, Population Ecology Search Committee, Department of Biology, University of California, Riverside, Riverside, CA 92521** by January 21, 2000. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POLYTECHNIC UNIVERSITY SENIOR FACULTY POSITION BIOLOGICAL SCIENCE

Polytechnic University invites applications for the position of **ASSOCIATE** or **FULL PROFESSOR** of biomedical science. The successful candidate will have a record of excellence in teaching as well as research accomplishments and funding, using molecular-level approaches to understand biological systems or processes. Emphasis will be placed on selecting a candidate whose research interests will complement those of our existing faculty strength in macromolecular science and engineering. The candidate must also have a strong commitment to biology education and will spearhead the development of new educational programs in which biological sciences are integrated with physical sciences or biotechnology. Interested parties should submit a résumé including a full list of publications, a description of research interests and funding, and of teaching experience. Letters of recommendation will be sought on the basis of mutual agreement. Applications should be sent by January 1, 2000, to: **Professor Mary Cowman, Polytechnic University, Six Metrotech Center, Brooklyn, NY 11201 USA**. *Polytechnic University is an Affirmative Action/Equal Opportunity Employer.*

EVOLUTIONARY GENETICS University of California, Riverside

The Department of Biology invites applications for a position in evolutionary genetics at the Junior (tenure-track **ASSISTANT PROFESSOR**) level. We seek an individual working on fundamental mechanisms of evolution using contemporary molecular approaches and related technologies; relevant areas of interest include evolutionary aspects of development, speciation, molecular adaptation, or experimental analyses of evolutionary processes. The successful candidate will establish a vigorous research program, contribute to undergraduate and graduate training, and participate in our interdepartmental graduate research units in genetics and in evolution and ecology. Applicants must have a Ph.D. degree with two or more years of postdoctoral training and a strong record of research accomplishment. A curriculum vitae, statement of research interests, and at least three letters of reference should be sent to: **Chair, Evolutionary Genetics Search Committee, Department of Biology, University of California, Riverside, Riverside, CA 92521**. Review of applications will begin January 21, 2000. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

WATERSHED ECOLOGIST FIELD LAB DIRECTOR

The College of William and Mary seeks a broadly trained watershed ecologist for a joint appointment in the Arts and Sciences Department of Biology and the Virginia Institute of Marine Science/School of Marine Science as a tenure-eligible or tenured **ASSOCIATE PROFESSOR** of Biology and Marine Science (Department of Biology will serve as the tenure home). A major responsibility of the position is to serve as the Director of the College's new W. M. Keck Environmental Field Laboratory at Lake Matoaka, providing a hands-on teaching and research program for graduate and undergraduate students. Expertise in ecological and/or watershed modeling is desirable. Salary and support will be commensurate with the applicant's qualifications.

Interested applicants should send a letter of application, curriculum vitae, a statement of research and teaching interests, and the names and addresses of at least three references to: **Search Committee, The Environmental Science and Policy Cluster, The College of William and Mary, P.O. Box 8795, Corner House 201, Williamsburg, VA 23187-8795; Telephone: 757-221-5075; FAX: 757-221-5076; e-mail: espcen@wm.edu**. You may also check our website: <http://www.wm.edu/ESPC>. Application review will begin on December 1, 1999, and will continue until the position is filled. *The College of William and Mary is an Equal Employment Opportunity/Affirmative Action Employer.*

PLANT MOLECULAR BIOLOGISTS. The Ohio State University. Two tenure-track positions are available at the **ASSISTANT/ASSOCIATE PROFESSOR** levels. Applicants addressing fundamental aspects of experimental plant biology including physiology, development, cell biology, metabolic regulation, and genomics are especially encouraged, but applications in other areas will be seriously considered as well. A Ph.D. and an established record of research productivity are required. Competitive salaries, attractive set-up funds, and research facilities will be provided. Successful candidates will be expected to establish a strong and creative research program, to attain a high level of teaching proficiency, and to participate in the campus-wide Plant Molecular Biology and Biotechnology Program. Please submit a curriculum vitae, a concise statement of research plans, teaching experience and interests, and three letters of recommendation to: **Dr. Fred Sack, Search Committee Chair, Plant Biology, Ohio State University, 1735 Neil Avenue, Columbus, OH 43210-1293**. Applications will be reviewed starting December 1, 1999. See our website for information about the Department: <http://www.biosci.ohio-state.edu/~plantbio/plantbio.html>. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disability are encouraged to apply.*

BIOINFORMATICS FUNCTIONAL GENOMICS Department of Molecular Biology Princeton University

The Department of Molecular Biology invites applications for a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. This position may include an appointment in the Institute for Integrative Genomics at Princeton. We are seeking an outstanding investigator in bioinformatics, computational biology, or functional genomics. Ph.D.'s or M.D.'s with postdoctoral research experience should send a curriculum vitae, short summary of research interest, and three letters of reference to: **Bioinformatics/Functional Genomics Search Committee, c/o Gail Huber, Department of Molecular Biology, Princeton University, Princeton, NJ 08544-1014**. For full consideration, applications should be received by January 1, 2000. For additional information about the department, visit our website: www.molbio.princeton.edu. *Princeton University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR FUNCTIONAL GENOMICS MOLECULAR BIOLOGY

University of Nebraska is seeking candidates for tenure leading, 80 percent research and 20 percent teaching, 12-month position in the Department of Animal Science. Successful candidate should be involved in functional genomics research that will contribute to the basic scientific knowledge in the identification and regulation of genes that control development and function of mammalian tissues. Candidate should have demonstrated expertise using approaches such as positional cloning, gene expression analysis, and transgenics using gene insertion and/or gene knockouts. Will be expected to develop and teach a graduate course in eukaryotic gene expression and contribute to undergraduate teaching efforts in animal molecular biology. Will interact with and support activities of the Animal Molecular Biology Group, Center for Biotechnology and animal industry groups. Requires Ph.D. in biological sciences with emphasis in molecular genetics or mammalian cellular biology, and postdoctoral experience. Candidates must have an appreciation for the role of basic science in the advancement of animal agriculture; must have demonstrated evidence of collaborative efforts; must have demonstrated willingness to work in an interdisciplinary setting; and must have demonstrated the ability to secure extramural funding. Applications must include a detailed curriculum vitae, transcripts of higher education, a two-page statement of research interests within the context of the job description, and the names, addresses, telephone numbers, and e-mails of three references by January 3, 2000, (or until an acceptable candidate is hired) to:

**Dr. Donald Beermann, Head
Department of Animal Science
University of Nebraska-Lincoln
C203 Animal Sciences
Lincoln, NE 68583-0908**

Telephone: 402-472-3571, FAX: 402-472-6362

University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity; is responsive to the needs of dual-career couples; and assures reasonable accommodation under the Americans with Disabilities Act. Contact Dr. Beermann for additional information.

MARINE SERVICES SUPERINTENDENT

Humboldt State University seeks applications for the position of Marine Services Superintendent. This full-time position directs the Telonicher Marine Laboratory and oversees the marine vessel fleet. A demonstrated understanding of and commitment to the instructional research mission of maritime facilities in an academic environment is required. M.S. or M.A. required/Ph.D. preferred in an area of marine science or marine-related engineering. Significant work experience in a higher education environment. Three successful years of experience in management of marine facilities. Knowledge of maritime maintenance and safety practices. Ability to work effectively with individuals who represent diverse and competing interests. Submit letter of application, complete résumé, addresses and telephone numbers of four professional references to: **Chair, Search Committee for Marine Services Superintendent, c/o Human Resources Department, Humboldt State Department, Humboldt State University, Arcata, CA 95521-8299**. We will begin reviewing applications on December 15, 1999. Starting date negotiable, preferably before July 1, 2000.

Fisheries Department, Auburn University, Alabama, invites applications for an Assistant-level or Associate-level **PROFESSOR/SEA GRANT DIRECTOR** for Alabama Programs. For complete information, telephone: 334-438-5690 or visit our website: www.ag.auburn.edu/dept/faa/faaempl.html in order to have ample time to apply by initial screening date of December 15, 1999. *Auburn University is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.*

Assistant Professor-Environmental Toxicology, UC Santa Cruz

The new graduate program in ENVIRONMENTAL TOXICOLOGY at the University of California, Santa Cruz invites applications for a tenure track position, which is open at the Assistant Professor level. We are interested in candidates with strong, extramurally funded research programs, preferably focusing on organic contaminants in aquatic environments. This may include the introduction, transport, and fate of organic contaminants in the environment, and/or the mechanisms underlying their metabolic fate and toxicity in organisms. The candidate will be expected to teach both graduate and undergraduate classes in Environmental Toxicology, and to actively participate in the ongoing development of the new department and graduate program in Environmental Toxicology.

Rank: Assistant Professor, Step I-III.

Minimum Qualifications: Ph.D. or equivalent in Toxicology, Chemistry, Biology, Biochemistry, or a related field completed or expected by effective date, a demonstrated record of research excellence and potential to obtain external funding, and a commitment to and talent for teaching at undergraduate and graduate levels.

Position available: 1 July 2000, contingent upon availability of funding.

Salary: \$44,300-49,400

Apply to: Applicants should submit a curriculum vitae, a brief description of research and teaching interests, copies of reprints, and arrange for three confidential letters of recommendation to be sent to:

Chair, Environmental Toxicology Search Committee
Department of Environmental Toxicology
Applied Sciences Building, Room 269
University of California
Santa Cruz, CA 95064

Visit the Environmental Toxicology website at:

<http://natsci.ucsc.edu/acad/etox>

Please refer to Provision #260 in all letters of recommendation and other correspondence. Closing date: January 3, 2000 5pm

UCSC is an Equal Opportunity Employer. Women and minorities are encouraged to apply.



UNIVERSITY OF CALIFORNIA, Merced

Founding Director, Sierra Nevada Research Institute

UC Merced, the newest of the 10 campuses of the University of California, is planning a Sierra Nevada Research Institute (SNRI) to carry out research on critical issues affecting the Sierra Nevada Range and San Joaquin Valley, including population growth and development, water and watersheds, air quality, fire ecology, biodiversity, climate change, transportation, resource management and policy, and public recreation. See <http://www.ucop.edu/ucmerced/acadplan/snri.html> for the academic plan.

UC Merced seeks an outstanding senior scientist to establish the SNRI. The director will hold a faculty appointment and be responsible for: recruiting distinguished faculty; developing a graduate program; building relationships with other UC organized research units, state and federal Sierra resources agencies, and the Lawrence Livermore National Laboratory; and administering the core budget of the Institute and identifying and pursuing public and private funding sources.

Candidates must have a record of distinguished research and teaching in one of the fields pertinent to the SNRI that would qualify them for a tenured senior faculty appointment. Also, administrator experience appropriate to planning and creating an Institute is required.

Please submit inquiries, nominations and applications electronically: director.snri@ucop.edu. Review of applications will begin on December 1, 1999 and continue until the position has been filled. Applications should include a letter of interest, resume, and the names, addresses, and phone numbers of five references.

AA/EOE

Director, Research Core Facilities

NYU School of Medicine seeks an accomplished professional for the position of Director of Research Core Facilities to be responsible for the fiscal and scientific management and development of its core research facilities.

Reporting to the Vice Dean for Research Administration and working closely with faculty advisory groups, the successful applicant will have a Doctoral degree in biological or clinical sciences, with in-depth knowledge and broad-based experience in the administration and management of a large research facility or laboratory in the public or private sector. This includes a thorough understanding of instrumentation and demonstrated capability to manage complex projects and financial systems. The Director will provide leadership and overall direction to ensure a high level of service and access to resources that is responsive to the research and clinical faculty, and the needs of the School. The Director will recruit and manage personnel; ensure quality assurance of all core facilities projects, programs and services; and identify new opportunities and develop new strategies to sustain and enhance the competitive portion of the School's research enterprise. An innovative and creative approach to problem solving is essential.

NYU School of Medicine has a long-standing commitment to basic and clinical research, and currently comprises a research facility of more than 350,000 square feet and over 1000 full-time faculty. Competitive salary and benefits package, and eligibility for faculty appointment.

Please send your C.V. to Doriane Gloria, Human Resources Department, NYU Medical Center, 550 First Avenue, New York, NY 10016; Fax: (212) 263-0340; E-mail: resume@med.nyu.edu. EOE. Visit our web site at <http://www.med.nyu.edu/Employment>.



Faculty Positions Washington University in St. Louis

(<http://www.biology.wustl.edu>)

The Department of Biology at Washington University continues to build on existing strengths. We now seek colleagues working in the areas of Neuroscience, Evolution and Development, and Microbiology. Candidates should have significant research accomplishments and a commitment to excellence in both undergraduate and graduate teaching. We anticipate filling these positions at the assistant professor level to begin as early as the Fall semester, 2000.

Neuroscience. Candidates are sought who will be able to establish a vigorous program of research in Neuroscience. Participation in the Neuroscience Program of the Division of Biology and Biomedical Sciences will be encouraged. Candidates with expertise in neuroethology, systems neuroscience and behavior, developmental neuroscience, or cellular neuroscience will be viewed with particular interest.

Evolution and Development. Candidates are sought who will be able to establish a vigorous research program at the interface between evolutionary and developmental biology. This area has been targeted as a focus for future growth within the department. Candidates working with any organism, including animal, plant, or microbial systems, will be considered.

Microbiology. Applicants should have research accomplishments using prokaryotic or eukaryotic microorganisms to investigate areas such as: physiology/development, environmental microbiology, population genetics and evolution, metabolic pathway engineering, or interactions between microbes and higher eukaryotes.

Review of applications will begin January 2. Applications will be accepted until the position is filled. Letters of application for each position should be accompanied by a curriculum vitae, brief statements of research and teaching interests, reprints of up to three selected papers, and the names and affiliations of three persons who have been asked to send letters of recommendation to:

Chairman, Department of Biology
Campus Box 1137
Washington University
One Brookings Drive
St. Louis, MO 63130-4899

Washington University is an Affirmative Action/Equal Opportunity employer.

POSITIONS OPEN

ECOTOXICOLOGIST

The Environmental Laboratory of the U.S. Army Engineer Research and Development Center located at the Waterways Experiment Station, Vicksburg, Mississippi, is seeking an ecotoxicologist (\$48,000/year) with a background in aquatic systems to participate in an active research program. Applicants must be U.S. citizens with a Ph.D. in environmental science, toxicology, or a related discipline with demonstrated experience in aquatic ecology/toxicology. Preference will be given to applicants with experience in contaminant trophic transfer modeling, bioavailability, and sediment toxicology. Exceptional candidates with experience in other areas will also be considered. Responsibilities will include leading/conducting experimental research; developing new research initiatives; preparing manuscripts for peer-reviewed publication, and participating in environmental risk assessments. Good communication, interpersonal, and technical writing skills are essential. Candidate screening will begin immediately and continue until the position is filled. Applicants should send a letter containing a statement of career objectives and research interests, a curriculum vitae, examples of recent publications, and the names of three references with postal/e-mail addresses and telephone/FAX numbers to: **Dr. Todd S. Bridges, U.S. Army Engineer Research and Development Center, WES-ES-F, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199.**

TROPICAL BIOLOGY

The Department of Ecology, Evolution, and Organismal Biology at Tulane University invites applications for a tenure-track position of Assistant Professor in tropical biology to build areas of specialization in evolutionary ecology, population genetics, conservation biology, biodiversity, and/or aquatic organisms or systems (see website: http://www.tulane.edu/~ecob/faculty_search). Evidence of outstanding research, publications, and teaching ability will be the primary criteria for selection. Each candidate should submit a curriculum vitae, statement of research and teaching interests, selected publications, and three references by December 10, 1999, to: **David C. Heins, Chair, Department of Ecology, Evolution, and Organismal Biology, 310 Dinwiddie Hall, Tulane University, New Orleans, LA 70118-5698.** Tulane University is an Affirmative Action/Equal Opportunity Employer committed to excellence through diversity; women and minorities are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSOR IMMUNOLOGY

The Immunology Unit of the Department of Medicine at Boston University Medical Center invites applications for a faculty position in immunology. Candidates with an M.D. or Ph.D. degree, working in any area of immunology, who have a strong research record and commitment to developing an independent, innovative program, will be considered.

Send curriculum vitae, outline of future research plans, and the names of three references, before December 15, 1999, to: **Thomas L. Rothstein, M.D., Ph.D., Boston Medical Center, Room E-501, 88 East Newton Street, Boston, MA 02118.** Equal Opportunity Employer.

SCANNING (ATOMIC) PROBE MICROSCOPIST

The Great Lakes Nanotechnology Company is seeking one or more individuals to work in its Chicago laboratory on a recently patented product that allows the Scanning Force Microscope (SFM) to be a sensitive sensor of specific forces. This work is being done in conjunction with the University of Chicago. Ph.D., M.S., B.S. or similar degree will be considered. Experience in SFM is desirable, as is a background in physics, biophysics, chemistry, and/or related areas. Mail or FAX résumés along with three references who may be contacted to: **Dr. Melvin Griem, Great Lakes Nanotechnology Company, 44 Sunset Trail, Ogdun Dunes, IN 46368.** FAX: 210-763-7996. Great Lakes is an Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR, molecular or cellular physiology (MCPI). Tenure-track faculty position. Seeking exceptional faculty with strong potential for establishing extramurally-funded research program in molecular or cellular physiology of higher organisms compatible with a research environment emphasizing molecular recognition and cellular response at its broadest definition. The successful candidate must have a congruent interest in teaching at the undergraduate and graduate levels. At least two years postdoctoral experience and interests in related areas of scholarship (bioinformatics or environmental issues highly desirable) are expected.

ASSISTANT PROFESSOR, nutritional/metabolic control of genetic regulation (MG99-2). The School of Biological Sciences invites applications for a tenure-track position at the Assistant Professor level. Qualifications include at least two years postdoctoral experience. Preference will be given to candidates with expertise in the study of genetic control of metabolic regulation in any organism model except warm-blooded vertebrates. Other aspects of cell biology complementary to existing research will also be considered. The successful candidate is expected to develop an independent extramurally-funded research program in this field and to participate in teaching at the graduate and undergraduate levels in courses adopted by the school.

We offer competitive salary and start-up packages, as well as state of the art facilities (see website: <http://sgl.bls.umkc.edu>). Applications will be considered until the position is filled. Send curriculum vitae, statement of future research and three letters of recommendation to: **Search Committee, Position (specify MCPI or MG99-2), School of Biological Sciences, University of Missouri-Kansas City, 5007 Rockhill Road, Room 114 BSB, Kansas City, MO 64110.**

An Affirmative Action/Equal Opportunity Employer.

VERTEBRATE ECOLOGIST: Denison University, a selective liberal arts college located 25 miles east of Columbus, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. Teaching responsibilities include core courses in general zoology and ecology and evolution, and advanced and non-majors' courses in the candidate's area of interest (teaching load is two courses per semester with laboratories). A strong potential for excellence in undergraduate teaching and an active research program involving undergraduates are essential. Research focusing on the physiological or population ecology of vertebrates is preferred. Denison offers competitive start-up funds, summer support for student and faculty research, and a 350-acre Biological Reserve with field station near campus. Ph.D. required; postdoctoral experience and demonstrated teaching ability are assets. Candidates should send letter of application, curriculum vitae, statements of teaching philosophy and research interests, copies of transcripts (graduate and undergraduate) and the names, e-mail addresses and telephone numbers of three references to: **Chair, Vertebrate Ecologist Search Committee, Biology Department, Denison University, Granville, OH 43023** by December 15th, 1999. Denison is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

POPULATION BIOLOGIST

The Wildlife Conservation Society's Science Resource Center is seeking a biologist to assist the Science Resource Center Director in administering the Wildlife Conservation Society Conservation Genetics Program, as well as conduct independent, applied research in conservation genetics. The candidate should have a Ph.D. in biology/conservation genetics or related conservation biology programs with a field-based component. Additional information is available from the Science Resource Center Director at e-mail: gamato@wcs.org. Please send curriculum vitae, current research interests, and three letters of recommendation to: **The Wildlife Conservation Society, Human Resources, Box SRC, 2300 Southern Boulevard, Bronx, New York 10460.**

POSITIONS OPEN

HEAD, SCHOOL OF HEALTH SCIENCES PURDUE UNIVERSITY

Purdue University, a land grant institution, is seeking a leader to serve as Head of the School of Health Sciences. The individual will have administrative responsibility for the undergraduate industrial hygiene, health physics, medical technology, environmental health science, general health sciences, and pre-professional programs; as well as the graduate programs in industrial hygiene, health physics, toxicology and medical physics. The Head will provide leadership to meet the educational goals and advance the research mission of the School. The successful candidate will qualify for a tenured appointment as a full professor and will be expected to participate in the scholarly activities of the School.

Review of the candidates will begin January 1, 2000, and continue until an appointment is made. Applicants should submit a complete curriculum vitae, statement of academic and administrative interests, and names of a minimum of five references to: **Gary P. Carlson, Search Committee Head, School of Health Sciences, Civil Engineering Building, Purdue University, West Lafayette, IN 47907-1338.** Telephone: 765-494-1412. E-mail: gcarlson@purdue.edu. Visit our website: <http://www.purdue.edu/HSCI/>.

Purdue University is an Affirmative Action/Equal Opportunity Employer/Educator. Women and minority applicants are strongly encouraged to apply.

BEHAVIORAL NEUROSCIENCE: The Department of Psychology at Yale University announces searches for new faculty members in behavioral neuroscience. Preference will be given to candidates whose interests would complement the Department's existing focus on learning and memory, or would provide interactions with faculty in cognitive neuroscience. Appointments may be made at either the tenured or non-tenured level. It is expected that the candidates will have, or show promise of, an exceptional program of research. In addition, the successful candidates should be able to demonstrate excellence in teaching at both the undergraduate and graduate levels. All applicants should send a letter of application, a curriculum vitae, and one copy of selected publications. Applicants to the non-tenured positions should arrange for three letters of recommendation to be sent. Applicants to the tenured positions should send the names and addresses of at least three referees. Materials should be sent to: **Chair, Behavioral Neuroscience Search Committee, Department of Psychology, Yale University, 2 Hillhouse Avenue, P.O. Box 208205, New Haven, CT 06520-8205.** The Search Committee will begin reviewing applications on November 15, 1999. Applications must be received by January 15, 2000.

Yale University is an Equal Opportunity/Affirmative Action Employer and applications from women and minority group members are especially encouraged.

ILLINOIS STATE MUSEUM VASCULAR PLANT SYSTEMATIST

Illinois State Museum seeks a vascular plant systematist to serve as Curator of Botany. Responsibilities: curation and expansion of herbarium; research and publication; participation in interdisciplinary Landscape History and educational programs. Required: Ph.D. in botany or related discipline; research experience in vascular plant taxonomy, biogeography, and ecology; five years experience in a museum or university; strong publication and grant-supported research record; knowledge of Holocene fauna of Midwestern United States. Desirable: research interest in Midwest and experience with taxonomic databases and GIS. Salary commensurate with experience. Starting date as early as March 1, 2000. Send cover letter, curriculum vitae, and names of three references by December 15, 1999, to: **Human Resource Manager, Illinois State Museum, Spring and Edwards Streets, Springfield, IL 62706-5000.** Queries to: **Dr. Bonnie Styles, e-mail: <styles@museum.state.il.us>.** Affirmative Action/Equal Employment Opportunity.



Yale UNIVERSITY

PROFESSOR

*Molecular, Cellular, and
Developmental Biology*

The Department of Molecular, Cellular and Developmental Biology at Yale University announces a search for a senior (tenured) faculty member. Individuals working in all areas of molecular, cellular and developmental biology are invited to apply. We are interested in a candidate who leads a vigorous and exciting research program that is well funded and recognized for its excellence both nationally and internationally. The successful candidate will be expected to interact with MCDB faculty, demonstrate excellence in teaching, and participate in interdisciplinary research and training.

Information on the Department can be found at <http://www.biology.yale.edu/>. Please send curriculum vitae, description of research interests and the names and addresses of at least three referees to: **Tenured Search Committee, c/o Chairperson, Department of Molecular, Cellular and Developmental Biology, Yale University, P.O. Box 208103, New Haven, CT 06520-8103.** *Yale University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are especially encouraged to apply.*



McGill

Department of Microbiology and Immunology McGill University

The Department of Microbiology and Immunology is undergoing an expansion phase of its research programs. We are currently seeking several new faculty members who will develop well funded, active, and independent research programs in infectious diseases including bacterial, viral, and protozoan infection. Successful applicants will also be involved in undergraduate and postgraduate teaching.

Applicants should possess a Ph.D. and/or M.D. and have at least two years of post-doctoral experience. Appointments will be made at the assistant professor level although applications at the rank of associate professor will also be considered in special cases.

In accordance with Canadian immigration requirements, this advertisement is directed primarily to Canadian citizens and permanent residents of Canada. Non-Canadians and nonresidents are, however, also encouraged to apply. Applicants should submit a curriculum vitae, a statement of research interests, and arrange to have three letters of reference to:

**Search Committee
Department of Microbiology and Immunology
McGill University
3775 University Street
Montreal, Quebec
Canada, H3A 2B4
FAX: 514-398-7052
E-mail: office@microimm.mcgill.ca**

Director, Weather and Air Quality Research

(A Senior Executive Service Position in the Federal Government)

**Department of Commerce
National Oceanic and Atmospheric Administration (NOAA)
Office of Oceanic and Atmospheric Research (OAR)
Silver Spring, MD
\$110,351 - 125,900 annually
Vacancy Number NOAA#99-10**

The candidate selected for this position will serve as the Director for Weather and Air Quality Research (WAQR) and has a dual role as the Associate Director for Atmospheric Research (AR) and is responsible for the direction and administration of all WAQR activities.

Mandatory Professional/Technical Qualification Requirements:

1. Broad background in research and development in the atmospheric, oceanographic, environmental, physical and/or engineering sciences with demonstrated professional research experience in one or more of the following: weather, solar-terrestrial, and air quality research.
2. Broad experience with basic and applied atmospheric research, and related applications and policy issues.
3. Experience which demonstrates the ability to work with, interact with, and provide service to the users of atmospheric products/services, including Federal and State agencies, academia, and international scientific groups.
4. Broad knowledge of the technological applications and policy issues that influence atmospheric research.
5. Demonstrated substantial senior level experience in the leadership, management, administration (including budgeting), and scientific program planning and policy development, in particular those areas which support atmospheric operations and services, of a large-scale scientific organization relevant to NOAA's mission.

**Please contact 301/713-0530, x106
(301/713-0973[TDD])**

(Internet: address: dede.epstein@hrmo.noaa.gov)
for an announcement package, including mailing instructions—referring to the announcement number—OR you may access the entire full-text vacancy from NOAA's Executive Resources Homepage (see below).

Incomplete applications will be returned.

<http://www.rdc.noaa.gov/~hrmo/er-home.htm>

**This vacancy will close on
December 20, 1999.**

"NOAA Values a Diverse Workforce and
is an Equal Opportunity Employer"



POSITIONS OPEN

RESEARCH ASSOCIATE

The Mycobacteria Research Laboratories, Colorado State University, is looking for a unique individual to help coordinate a major NIH-funded program on tuberculosis drug screening in the mouse-experimental model. The position will include coordination and possible improvement of existing animal model and *in vitro* screening systems, particularly as they relate to chronic/latent tuberculosis, as well as networking with other tuberculosis drug discovery programs. Candidates should have a Ph.D. in a related field.

RESEARCH ASSOCIATE

The Mycobacteria Research Laboratories, Colorado State University, is looking for an individual with a background in cellular immunology and extensive experience in flow cytometry and cell sorting to help coordinate a major NIH-funded program on tuberculosis vaccine screening in the mouse- and guinea pig-experimental models. Candidates should have a Ph.D. in a related field.

Send cover letter, curriculum vitae, and names of three references to:

Mrs. Jenny Harding
Department of Microbiology
Colorado State University
Fort Collins, CO 80523

e-mail: jharding@lamar.colostate.edu

Deadline for applications is November 19, 1999. Colorado State University is an Equal Opportunity/Affirmative Action Employer.

MARINE/AQUATIC ORGANISMAL BIOLOGIST WITH EXPERTISE IN MOLECULAR BIOLOGY

The University of Texas at Austin, Department of Marine Science and Marine Science Institute invite applications for a **MARINE/AQUATIC BIOLOGIST** who utilizes molecular biology techniques to hold a joint appointment as a tenure-track Assistant Professor in the Department and as a Research Scientist at the Institute in Port Aransas. Areas of interest include, but are not limited to: aquaculture, conservation, ecology, fisheries, physiology, population biology, and toxicology. Candidates must have a Ph.D. degree. Preference will be given to candidates with a strong research record that demonstrates the application of modern molecular biology approaches. The successful candidate will be expected to develop an externally-funded research program and to contribute to graduate and undergraduate education through course instruction and student supervision. The position receives nine months of annual salary support from the State. For more information about the Institute and Department, please see our website: www.utmsi.utexas.edu. Applicants should send a curriculum vitae, a statement of research and teaching interests, and the names and addresses of five references to: **Search Committee Chair, The University of Texas Marine Science Institute, 750 Channel View Drive, Port Aransas, TX 78373-5015**. Review of applications will begin on January 10, 2000, and will continue until the position is filled. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

GLUCAGON-LIKE PEPTIDES

Positions available for new **POSTDOCTORAL FELLOWS** (must be within 2 years of receiving Ph.D.) and graduate students at the University of Toronto for study of the molecular biology and physiology of the glucagon-like peptides and their receptors in diabetes and intestinal disease. For overview of research program see website: www.glucagon.com. Application to e-mail: d.drucker@utoronto.ca or FAX: 416-978-4108.

ASSISTANT PROFESSOR of biology, tenure-track, beginning August 2000. Ph.D. required, with emphasis in cell biology. Application review November 30, 1999. Letter of application, curriculum vitae, three letters of reference to: **Dr. Tammy Stiller, Westminster College, Fulton, MO 65251-1922**. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN



DIRECTOR OF RESEARCH

Oridigm is a biotechnology company in Seattle, Washington, focusing on drug discovery and development of small molecules to modulate cell growth. Oridigm has discovered multiple drug candidates through a focused approach on polyamine metabolism. Because of these successes, Oridigm seeks a Director of Research to assist in leading the Company through the succeeding phases of drug development. The applicant should have a proven track record in leading scientific inquiry. Clinical trial experience, pharmaceutical industry relationships, licensing and business development experience are desired.

For more information, visit website: www.oridigm.com. Send curriculum vitae to: **Oridigm HR, 4010 Stone Way North, #220, Seattle, WA 98103**, or FAX: 206-675-8881.

SPINAL CORD INJURY NEUROBIOLOGIST

The Department of Orthopaedics at the University of California, Irvine, is expanding its commitment to spinal cord injury research. The department seeks an individual with a Ph.D. who can demonstrate excellence in the neurobiology of spinal cord injury. The candidate should be familiar with cellular/molecular mechanisms that mediate spinal cord injury. Preferably, the candidate should be capable of performing transfection/transplantation studies. The appointee will be a member of the spinal injury group in our department, and will interact with other scientists in the Reeve-Irvine Spinal Cord Research Center. Applicants should send a curriculum vitae, a brief description of current and future research interests, and the names and addresses of three references to: **Greg Carlson, M.D., Department of Orthopaedics, College of Medicine, University of California, Irvine, CA 92717**. E-mail: gcarlson@msx.ndc.mc.uci.edu. Review of applicants will begin immediately and close December 1, 1999. The anticipated start date is negotiable.

The University of California, Irvine is an Equal Opportunity Employer committed to excellence through diversity.

ASSOCIATE SCIENTIST EMORY UNIVERSITY The Cherry L. Emerson Center for Scientific Computation

Permanent, full-time position available for a computational scientist. **RESPONSIBILITIES:** Maintain hardware, system software, and network for workstation cluster. Research in computational chemistry. **QUALIFICATIONS:** Ph.D. in computational chemistry. **SALARY:** \$36,000/year. Excellent fringe benefits package. **APPLICATION:** Before December 5, 1999. Submit a curriculum vitae and arrange for two letters of recommendation to be sent to: **Professor Keiji Morokuma, Department of Chemistry, Emory University, Atlanta, GA 30322**. Must have proof of legal authority to work in the United States. Emory University is an Affirmative Action/Equal Opportunity Employer.

NMR FACILITIES MANAGER. The University of Pennsylvania Department of Radiology seeks a Manager of its Animal and Clinical NMR Facility. The manager will be responsible for maintenance of instruments, scheduling, training prospective users and assisting faculty and students in performing animal and clinical imaging and spectroscopy experiments. A Ph.D. is required. Applications should be sent to: **Jerry Glickson, Ph.D., 422 Curie Boulevard, B1 Stellar-Chance Laboratories, Philadelphia, PA 19104** or to e-mail address: glickson@mail.med.upenn.edu. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Qualified female and minority candidates are encouraged to apply.

POSITIONS OPEN

SOIL SCIENCE/SOIL BIOLOGY

Idaho State University announces a full-time, non-tenure-track position for a Research Scientist with training and expertise in soil science. Additional expertise in microbial and/or ecosystem ecology is desired. The successful candidate will be expected to interact with faculty and students in ecology, waste management and environmental science, and geology. Collaboration with scientists at the Idaho National Engineering and Environmental Laboratory (INEEL) and participation in the Idaho State University-INEEL Center for Integrated Environmental Analysis will be significant components of this position. The successful candidate will be expected to teach one class per year, support graduate programs in biological sciences, and maintain an active, funded research program. A doctoral degree is required, and postdoctoral experience is preferred. Information about Idaho State University, the Department of Biological Sciences, and the Department of Geology is available at the Idaho State University website: <http://www.isu.edu>. The position will remain open until filled. Please send a letter of application, curriculum vitae, a statement of research goals, and have three letters of recommendation sent by December 5, 1999, to: **Soil Scientist Search Committee, Department of Biological Sciences, Campus Box 8007, Idaho State University, Pocatello, ID 83209-8007**. Idaho State University is an Equal Opportunity/Affirmative Action Employer.

PLANT SYSTEMATICS HARVARD UNIVERSITY Department of Organismic and Evolutionary Biology

The Department of Organismic and Evolutionary Biology seeks to appoint two plant systematists at the tenure level to develop programs of research and teaching in molecular and/or morphological systematics and allied fields. These positions, associated with the Harvard University Herbaria, may involve curatorial and general administrative responsibilities related to Harvard's large research collections. For further information about the department see website: www.oeb.harvard.edu and www.herbaria.harvard.edu.

Send by: 1 February 2000, a letter of nomination or application including curriculum vitae, a statement of teaching and research interests, and the names and addresses of at least three professional references to:

Donald H. Pfister
Harvard University Herbaria
22 Divinity Avenue
Cambridge, MA 02138

Harvard University is an Affirmative Action/Equal Opportunity Employer.

ORGANIC CHEMIST-ASSISTANT PROFESSOR, tenure-track, Ph.D., September 1, 2000; teach general chemistry and organic chemistry. The candidate's potential as a teacher and researcher for an undergraduate program is essential. Preference given to individuals with a research background and resultant publication in refereed journals. Application deadline is January 15, 2000. Midwestern State University is a liberal arts university with an enrollment of 5,800 students. The chemistry department is American Chemical Society-certified, offering the B.S. in chemistry and B.S. in environmental chemical technology. Submit curriculum vitae, description of proposed research, a statement of educational philosophy, and three letters of recommendation to: **Dr. Rodney Cate, Chemistry Program Chair, Midwestern State University, 3410 Taft, Wichita Falls, TX 76308-2099**. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available for candidates holding a Ph.D. or equivalent in molecular biology or a related field for genetic engineering of protein-based polymers for controlled drug delivery. Send curriculum vitae and three letters of reference to: **Dr. Hamid Ghandehari, University of Maryland School of Pharmacy, 20 North Pine Street, Baltimore, MD 21201**. E-mail: hghandeh@rx.umaryland.edu.



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INTERNATIONAL ONLY*

POSITIONS OPEN

EXPERIMENTALIST, University of Colorado and National Institute for Standards and Technology (NIST), Boulder, CO. Joint Institute for Laboratory Astrophysics, a premier academic research institute administered jointly between NIST and the University of Colorado, is looking for highly motivated and creative applicants to develop a world-class research program in multi-disciplinary laser-based physics. The position requires the individual to establish an active research group of graduate, undergraduate and postdoctoral students, acquire sources of outside funding, and participate in departmental teaching responsibilities. Candidates with a strong quantum optics/laser background and interest in rapidly emerging fields such as nanostructural technologies, biophysics, and scanned-probe or single-molecule microscopies are particularly encouraged to apply. The salary range is \$50,000 to \$80,000, depending on experience and qualifications. Interested persons should send a curriculum vitae, a detailed research proposal (two to three pages) and arrange for three letters of recommendation to be sent to the **Search Committee, JILA Campus Box 440, University of Colorado, Boulder, CO 80309-0440**. Applications received by December 15, 1999, will be reviewed for a start date before September 2000. For further information, see the Joint Institute for Laboratory Astrophysics home page at [website: http://jilawww.colorado.edu](http://jilawww.colorado.edu). The University of Colorado at Boulder is committed to diversity and equality in education and employment.

MICROBIOLOGIST MOLECULAR BIOLOGIST Frostburg State University

Frostburg State University seeks a full-time, tenure-track Microbiologist/Molecular Biologist at the Assistant Professor level, available August 2000. **RESPONSIBILITIES:** Teach courses in cell biology, microbiology, molecular biology, biochemistry and related areas, contributing to general biology programs, directing undergraduate and graduate research, establishing an active research program. **MINIMUM QUALIFICATIONS:** Ph.D. in biology or related field at the time of hire. Broad training in molecular biology and microbiology; ability to contribute to the general biology program; demonstrated potential for excellence in teaching and research. **PREFERRED QUALIFICATIONS:** Training in immunology. To apply, send a letter of interest; résumé; and the names, addresses, and telephone numbers of three professional references by January 1, 2000, to: **Frostburg State University, Office of Human Resources, ATTN: Microbiologist/Molecular Biologist (Position #2000-1020-SCIENCE)**, Frostburg, MD 21532. Website: www.frostburg.edu.

Frostburg State University is an Affirmative Action/Equal Opportunity Employer. Appropriate auxiliary aids and services for qualified individuals with disability will be provided upon request. Please notify in advance.

NEUROPHYSIOLOGIST UTAH STATE UNIVERSITY

The Department of Biology ([website: www.biology.usu.edu](http://www.biology.usu.edu)) at Utah State University invites applications for a tenure-track position at the Assistant Professor level in neurophysiology. The successful candidate (Ph.D. degree and postdoctoral experience required) will complement existing strengths in the research areas of ion channels and cell signaling. We seek a colleague who uses modern molecular, cellular, and/or electrophysiological approaches to address neurophysiological questions at the systems level. Responsibilities will include establishing a research program with extramural funding and actively participating in undergraduate and graduate teaching, including a medical physiology course at the upper division level. Please submit a curriculum vitae, statements of research and teaching interests, three representative reprints, and arrange for three letters of reference to be sent to: **Dr. Peter C. Ruben, Chair, Neurophysiology Search Committee, 5305 Old Main Hill, Department of Biology, Utah State University, Logan, UT 84322-5305**. Applications will be reviewed beginning 1 January 2000, and continue until the position is filled. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSOCIATE SCIENTIST/SCIENTIST DRUG DISCOVERY

SUGEN, Inc., is a dynamic and respected biopharmaceutical company focused on the discovery and development of small-molecule drugs for the treatment of cancer, diabetes, and immunological disorders. Due to the expansion of our discovery and development programs, we are seeking a highly motivated scientist with expertise in biochemistry and molecular biology to join a multidisciplinary team focused on the identification of small-molecular inhibitors of enzymes involved with cellular signaling pathways. You will contribute to the development and implementation of biochemical screening assays and new assay technologies to be used for identifying inhibitors of tyrosine kinases, serine/threonine kinases, and tyrosine phosphatases. Requires a Ph.D. in biochemistry or related field and two years of experience, preferably in the biotechnology or pharmaceutical industry. Experience in drug discovery is a plus, particularly in the areas of assay design and development using non-isotopic detection methods. An understanding of enzyme kinetics and experience with vector design, protein expression, and purification are desirable. We offer a competitive salary and excellent benefits, including pension plan, bonus program, and a team-driven, creative environment. Please send résumé to: **Human Resources, SUGEN, Inc., Job Code AR50183SCI, 230 East Grand Avenue, South San Francisco, CA 94080**. E-mail: jobs@sugen.com (MS Word documents only). Visit our [website: www.sugen.com](http://www.sugen.com). Equal Opportunity Employer.

RESEARCH ASSOCIATE Wound Healing Research Laboratory

An established, NIH-funded wound healing laboratory invites applications for a Research Associate position. Candidates should have a Ph.D. degree with experience in molecular biology/cell biology techniques. Experience with signal transduction research is a plus. We provide competitive salary and exposure to numerous industrial and academic projects. The successful candidate must have excellent written/oral communication skills. To apply, send a curriculum vitae with three letters of reference to: **Dr. Thomas A. Mustoe, Northwestern University, 303 East Chicago Avenue, Ward Building 19th Floor, Chicago, IL 60611**.

POPULATION GENETICIST DEVELOPMENTAL BIOLOGIST The University of Southern Mississippi

The Department of Biological Sciences at The University of Southern Mississippi ([website: http://www.dept.usm.edu/~bsc](http://www.dept.usm.edu/~bsc)) invites applications for two tenure-track positions at the **ASSISTANT PROFESSOR** level, in the areas of population genetics and developmental biology. We seek individuals with postdoctoral experience who will develop strong, extramurally-funded research programs and participate in undergraduate and graduate instruction. Application deadline is November 29, 1999. Send curriculum vitae, statement of research and teaching interests, and names and addresses of three references to: **Dr. Frank Moore, Chair, Department of Biological Sciences, The University of Southern Mississippi, Hattiesburg, MS 39406-5018**. Affirmative Action/Equal Opportunity Employer/American Disabilities Act Institution.

POSITIONS OPEN

AKKADIX CORPORATION is a rapidly growing, agricultural biotechnology company focused on the discovery of novel strategies for crop improvement. We are seeking a prominent molecular geneticist to serve as **PROGRAM LEADER OF SIGNAL TRANSDUCTION**. This program is one of three internal research programs, and is expected to grow significantly. It utilizes molecular genetics and functional genomics to manipulate signaling pathways that regulate plant growth, development, and responses to environmental signals. The successful candidate will have a proven track record in academia or industry in establishing and/or leading an internationally recognized and productive research program in some aspect of signal transduction. Evidence of productivity should include publications and/or patents.

Akkadix offers a competitive package of compensation, health benefits, and 401K plan. We are located only minutes from the Pacific Ocean near the Scripps Research Institute, Salk Institute, and University of California at San Diego. Our [website: http://www.akkadix.com](http://www.akkadix.com). Applicants should send a cover letter indicating interest in the position, a curriculum vitae describing research experience, and names of three references to: **Akkadix Corporation, Attn: Human Resources, 12626 High Bluff Drive, Suite 250, San Diego, CA 92130**, or by FAX: 858-794-5525.

ENVIRONMENTAL MICROBIOLOGIST: The Department of Biology at Tennessee Technological University invites applications for a tenure-track position at the Assistant Professor level beginning in August 2000. Applicants must have a Ph.D. in an appropriate biological science, at least two years of postdoctoral experience in microbial ecology, and a demonstrated potential to excel as an educator. Preference will be given to individuals with a record of research accomplishments utilizing molecular approaches to the study of microbial ecology and diversity, with emphasis on eukaryotic microbes. The successful candidate will be expected to teach introductory and environmental microbiology, graduate courses in environmental science, and other biology courses as required. He/she will also be expected to establish a funded research program and to serve as advisor to undergraduate and graduate students. Submit letter of application with teaching and research interests, copies of transcripts, curriculum vitae, Tennessee Technological University application (available on [website: www.tntech.edu](http://www.tntech.edu)), and names of three references to: **Microbiology Search Committee, Department of Biology, Box 5063, Tennessee Technological University, Cookeville, TN 38505** prior to December 15, 1999.

Affirmative Action/Equal Employment Opportunity.

RESEARCH ASSOCIATE POSITIONS

Available immediately to a recent graduate. Investigation of cytoplasmic signaling and regulation of PDGFR and TGF β receptor gene transcription during carcinogenesis and fibrogenesis. (*JBC* 268: 25132; 270:3642; 271:25994; 273:15913). Major molecular biology experience and doctorate required. Send/FAX, curriculum vitae including all technical skills, and the names of three references to: **Dr. Bernard David, Department of Medicine, M-453, University of Chicago, MC4076, 5841 South Maryland Avenue, Chicago, IL 60637**. FAX: 773-834-1288. Telephone: 773-702-1467. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION STRUCTURAL BIOLOGY

An NIH-funded postdoctoral position is available immediately to study the three-dimensional structure of the vacuolar proton pumping ATPase (V-ATPase) by (cryo-) electron microscopy and image reconstruction (see *J. Biol. Chem.* 274, 31804). Candidates, preferably with a background in electron microscopy/structural biology, should send an application including names and e-mail addresses of two references to: **Dr. Stephan Wilkens, Department of Biochemistry, University of California, Riverside, Riverside, CA 92521, USA**. E-mail: stephan.wilkens@ucr.edu. The University of California is an Equal Opportunity/Affirmative Action Employer.

GLOBAL OPPORTUNITIES



Smithsonian Tropical Research Institute

The Smithsonian Tropical Research Institute (STRI), a division of the Smithsonian Institution headquartered in the Republic of Panama, offers fellowships for research based at its facilities. Disciplines include ecology, anthropology, paleontology, evolution, systematics, behavior and physiology of tropical plants and animals.

- **Earl S. Tupper 3-year postdoctoral fellowship** (deadline: Jan 15). Applications should include detailed research proposal with budget, curriculum vitae, 2 letters of reference, names and telephone numbers of 3 additional references and reprints of most important papers. Applicants should consult with STRI scientist who will serve as advisor before submitting application. Annual stipend up to \$30,000 with yearly travel and research allotments. Proposals that include comparative research in other tropical countries will be considered. Send inquiries and application to STRI.

- **Predocutorial, postdoctoral, senior postdoctoral (up to 1 year) and 10-week fellowships** are available through the Smithsonian's Office of Fellowships & Grants, Washington, DC. Deadline: Jan. 15. **OFG, 955 L'Enfant Plaza, Suite 7000, Washington DC 20560, siofg@ofg.si.edu, <http://www.si.edu/research+study>.**

- **Three month fellowships** (deadline: February 15, May 15, August 15, and November 15) thru STRI. **Smithsonian Institution, STRI/Office of Education, Washington DC 20560-0902 or fellows@tivoli.si.edu or <http://www.stri.org>.**

Awards are based upon merit, without regard to race, color, religion, sex, national origin, age or condition of handicap of the applicant.

GLOBAL OPPORTUNITIES

TENURE POSITION

RIKEN (The Institute of Physical and Chemical Research)

Tsukuba Life Science Center, Molecular Oncology Laboratory

We invite applications for one tenure researcher position beginning in April, 2000. We are currently investigating the mechanisms of signal transduction of apoptosis (programmed cell death) in normal and malignant tumor cells and to identify the putative tumor suppressor gene for breast and ovarian tumors. In particular, we have been interested in identifying putative signal transducing molecules that regulate induction of apoptosis or promotion of cell survival by TNF/NGF receptor family. Furthermore, we focus on ribosome engineering project supported by Ministry of Science and Technology Agency in Japan.

We are looking for candidates in the following areas: 1. Investigation of mechanisms of TNF/NGF receptor-mediated signal transduction. 2. Investigation of oncogenes and tumor suppressor genes responsible for primary breast and ovarian cancers. 3. Ribosome engineering and development of its potential function in mammalian cells.

Candidates should hold the Ph.D. or M.D., or both degrees. Candidates are expected to use knowledge of cellular biology and molecular biology. The salary is dependent on career profile. Candidates should submit curriculum vitae, a list of publications, selected reprints of 5 papers, summary of research interest (no more than 1600 words), and the full address and e-mail address of two referees. It should arrive no later than 14 January 2000 to:

Dr. Taka-Aki SATO, Ph.D.
Director of Molecular Oncology Laboratory,
RIKEN Tsukuba Life Science Center
3-1-1 Koyadai, Tsukuba, Ibaraki, 305-0074
Tel: +81-298-36-9127 Fax: +81-298-36-9141
E-mail: miwai@rtc.riken.go.jp
http://rtcweb.rtc.riken.go.jp/lab/mo/syuyo_e

EUROPEAN OPPORTUNITIES

Bayer is a globally active research-based company in the fields of chemicals and life-sciences, headquartered in Leverkusen/Germany. With total annual sales of DM 55 billion and an annual R&D budget of DM 4 billion in 1998 we can offer a very attractive working environment for highly motivated people. (For more details refer to <http://www.bayer.com>).

In our Central Research division in Leverkusen/Germany, a job opportunity is available for a scientist.

Molecular Biologist/ Geneticist

As a research scientist with a Ph.D. you will participate in a project aiming at identifying SNPs and their associations with human disease and disease predispositions. Emphasis will be put on the development and validation of assays for SNP scoring and on selecting appropriate study groups for statistically meaningful experiments. You should have a strong background in nucleic acid chemistry and population genetics. Practical experience in either field should exist.

The position is designated as a laboratory head within a multidisciplinary team of molecular biologists, chemists and biostatisticians working on planning and running large scale association studies.

If your background and personal experience fits this profile, please send your complete application in English or German quoting reference number 1081 to:

Bayer AG, Hochschulmarketing
 Hauptstrasse 119, 51368 Leverkusen, Germany

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POSITIONS OPEN

SENIOR SCIENTIST POSITION RADIOCHEMISTRY

Program lead for development of research program capitalizing on radioanalytical infrastructure including technical staff supervision, requiring Ph.D. (in hand by hire date) in chemistry, health physics, radioecology, or related field, plus five years of research in actinide radiochemistry, isotope geochemistry, radioecology, radioactive waste technology, or related discipline; peer-reviewed publication and demonstrated generation of extramural funding. Résumé review begins December 12, 1999. See website: <http://www.cemrc.org> for detailed position description. Send detailed résumé and list of four references to: **Dr. Marsha Conley, Director, Carlsbad Environmental Monitoring and Research Center, New Mexico State University, 1400 University Drive, Carlsbad, NM 88220; e-mail: kyoung@cemrc.org.** Position is contingent upon continuation of funding. Offer is contingent upon certification of eligibility for employment in the United States. *New Mexico State University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION NEURAL-GLIAL INTERACTIONS

For studies on opioid peptides and receptors in neural-glial and neural-immune cell interactions following stress and injury, in the laboratory of **Dr. Brian Cox, Department of Pharmacology, Uniformed Services University, Bethesda, MD.** A Ph.D. in a biomedical science, knowledge of molecular biology techniques, experience in immunocytochemistry, *in situ* hybridization, and cell culture required; comprehensive benefits package offered. Send curriculum vitae and the names of three references to: **Henry M. Jackson Foundation, 1401 Rockville Pike, Suite 600, Rockville, MD 20852, Attention: HRD, #990514 or e-mail: hr@hjf.org.** *Equal Opportunity Employer/Affirmative Action.*

POSTDOCTORAL POSITIONS available immediately to study the molecular determinants of calcium sensing and metabotropic glutamate receptor function (*JBC* 273:29712, 1998; *JBC* 274:11629, 1999). Expertise in molecular biology or fluorescence imaging/cell physiology required. Send curriculum vitae and the names of three references to: **Gerda E. Breitwieser, Ph.D., Department of Physiology, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. E-mail: gbreitwi@pop.jhmi.edu.** *Affirmative Action/Equal Opportunity Employer/Disabled/Veterans.*

Two **POSTDOCTORAL POSITIONS** are available immediately to study mechanisms of immunoregulation in autoimmunity. Studies will involve the cellular and molecular mechanisms employed by regulatory T cells in control of auto-reactive T cells during autoimmune disease in animal models and human disease. Applicants should have a solid background in cell and/or molecular biology and a strong desire to extend their training to immunology. Send curriculum vitae and two references to: **Dr. Leonard Chess, Columbia University, Department of Medicine, 630 West 168th Street, PH 8E, Suite 101, New York, NY 10032.** *Columbia University takes Affirmative Action toward Equal Employment Opportunity.*

RESEARCH ASSOCIATE and POSTDOCTORAL FELLOW positions available to study receptor tyrosine kinase signaling in regulating cell growth, migration, and tumor metastasis. A Ph.D. degree and experience in molecular biology and biochemistry are required. Please send curriculum vitae, and names and telephone numbers of references to: **Dr. Bing-Cheng Wang, Rammekamp Center for Research-R421, Case Western Reserve University School of Medicine, 2500 MetroHealth Drive, Cleveland, OH 44109. E-mail: bxw14@po.cwru.edu.**

POSITIONS OPEN



HARVARD UNIVERSITY is searching for a senior science administrator to provide administrative leadership for the Department of Physics. **Website:** <http://hussle.harvard.edu/~gabrieles/gabrieles/Director.html>.

POSTDOCTORAL POSITIONS

We are searching for postdoctoral fellows to participate in a collaborative research study at the University of Rochester. The participating laboratories provide a rich training environment in the context of a recently funded, long established Program Project aimed at exploring fundamental mechanisms underlying peripheral vascular function. The emphasis of the program is on understanding the role of mechanical and chemical events as mediators of normal and pathological behavior, particularly with regard to inflammation and microvascular cell adhesion. Research areas include, blood cell mechanics and cell adhesion, leukocyte and endothelial cell biology and adhesive ligand expression. Individuals with doctoral training in cell adhesion and mechanics, membrane biophysics, or leukocyte biology are particularly encouraged to apply.

Interested applicants should send their curriculum vitae and the names of three individuals who could supply letters of reference to:

Richard E. Waugh, Ph.D.
Department of Pharmacology and Physiology
University of Rochester Medical Center
601 Elmwood Avenue, Box 711
Rochester, NY 14642-8711
FAX: 716-244-9283

TENURE-TRACK ASSISTANT/ ASSOCIATE PROFESSOR OF BIOLOGY BIOLOGY EDUCATION

The Moorhead State University Biology Department invites applications for a tenure-track position, Assistant or Associate Professor level, to begin August 24, 2000. Qualifications: a Ph.D. in a biological science or an Ed.D. in Science Education with a Masters or equivalent in a biological science; a minimum of one year secondary science teaching experience is required. Teaching responsibilities: introductory biology classes appropriate for prospective elementary teachers; Middle/Secondary Science Teaching Methods. Additional responsibilities: supervision of middle/secondary student teachers; scholarly activity and education outreach. Visit website: <http://www.moorhead.msus.edu/biology/search.htm> for the Vacancy Notice and the Standard Application. Send résumé, graduate and undergraduate transcripts, statements of teaching philosophy and scholarly interests, three current letters of reference, and a Standard Application Form to: **Dr. Mary A. Shimabukuro, Department of Biology, Moorhead State University, Moorhead, MN 56563. E-mail: biolsrch@mhd1.moorhead.msus.edu. FAX: 218-236-2018. Telephone: 218-287-5000.** Screening of completed applications will begin January 14, 2000.

RHEOGENE

RHeoGene LLC is a newly formed joint venture between Rohm and Haas Company and Argonex, Inc. The main research focus of RHeoGene is to develop tools for human gene therapy applications, including ligand-inducible gene expression systems.

We have immediate openings for Postdoctoral Fellows at the Spring House, Pennsylvania, location, to work on regulation of gene expression in cell culture and animal model systems. Experience in nuclear receptor molecular biology or transcription factors is desirable. Interested individuals may send their curriculum vitae and list of three references to: **Human Resources, RHeoGene LLC, c/o Argonex, Inc., 706 Forest Street, Charlottesville, VA 22903. E-mail: rhhire@argonex.com.** *Equal Opportunity Employer.*

POSITIONS OPEN

THREE POSTDOCTORAL POSITIONS available immediately in Experimental Pathology Division, Department of Pathology, Medical College of Ohio in Toledo, Ohio, to participate in one of three areas of research: (1) Positional cloning of mouse lung cancer susceptibility gene(s); (2) Using transgenic and ES cell gene targeting techniques to study the role of candidate lung cancer gene(s); (3) Investigation of the role of cell cycle regulators in mouse lung tumorigenesis. A familiarity with basic techniques in one of the three specific areas is required. Interested individuals should send current curriculum vitae and names of three references to: **Dr. Ming You** by e-mail: myou@mco.edu; Telephone: 419-383-4918; FAX: 419-383-3089; or mail to: **Department of Pathology, Medical College of Ohio, 3055 Arlington Avenue, Toledo, OH 43614-5806.**

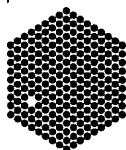
TWO POSTDOCTORAL POSITIONS

We are currently seeking two postdoctoral fellows to work in the area of biomineralization and protein-interfacial interactions. Our laboratory is currently funded by the National Science Foundation and the Army Research Office, Department of Defense. One position is in the area of computational chemistry (algorithm design and programming experience in Fortran/C required), the other, nuclear magnetic resonance (biomolecular structure determination and/or pulse sequence development experience required). Salaries are negotiable. Interested candidates should submit a copy of their curriculum vitae and have three letters of recommendation forwarded on their behalf to: **Professor John S. Evans, Division of Basic Sciences, New York University, Room 1007, 345 East 24th Street, New York, NY 10010. E-mail: jse@lennon.nyu.edu.** *New York University is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION available in Department of Biology, Utah State University, Logan, Utah. Position will investigate the effects of UV/B on the survival of *Metarhizium anisopliae*. Candidate must have strong training in molecular biology, preferably in fungi; an interest in connecting gene expression with biological phenomenon; ability to work independently and as team member; ability to prepare results for presentation at meetings and for publication. Position available 1 November 1999. Submit curriculum vitae, three letters of reference to: **Dr. Donald W. Roberts, Department of Biology, Utah State University, 5305 Old Main Hill, Logan, UT 84322-5305; telephone: 435-797-0049; FAX: 435-797-1575; e-mail: dwroberts@biology.usu.edu.**

Two **POSTDOCTORAL POSITIONS:** Muscular dystrophy and viral transcription and transformation. One position is to study the molecular biology of spinal muscular atrophy and the functions of the SMN protein. Another will investigate the mechanisms of action of the papillomavirus transcription/replication activator E2 and the transforming protein E6. Emphasis is on the cellular factors that interact with SMN and the E2 and E6 proteins. The laboratory uses a variety of contemporary molecular, genetic, and biochemical methods. Send cover letter, résumé and names of references to: **Dr. Elliott Androphy, New England Medical Center, 750 Washington Street, Box 166, Boston, MA 02111; e-mail: eandroph@opal.tufts.edu.**

POSTDOCTORAL POSITIONS available at the Cardiovascular Research Center, Massachusetts General Hospital, Harvard Medical School. Our laboratory studies the roles of nitric oxide (NO) in atherogenesis, cerebral ischemia, and cardiovascular physiology, using molecular biology, cellular, and *in vivo* physiology techniques. Experience in animal surgery/physiology, histology, and transgenics/knock-outs is helpful. Send curriculum vitae and two letters of reference to: **Dr. Paul Huang, Cardiovascular Research Center, Massachusetts General Hospital East, 149 East 13th Street, Charlestown, MA 02129.** *Massachusetts General Hospital is an Equal Opportunity Employer committed to work force diversity. Equal Opportunity Employer/Affirmative Action.*



EMBL

The European Molecular Biology Laboratory (EMBL) is an international research organisation with its Headquarters Laboratory in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme in Mouse Biology at Monterotondo (Italy). The headquarters laboratory in Heidelberg has vacancies at the level of

GROUP LEADER AND TEAM LEADER (ref. no. 99/74)

The Heidelberg laboratory consists of five Scientific Programmes: Structural Biology (incl. Biocomputing), Cell Biology and Biophysics, Developmental Biology, Biochemical Instrumentation and Gene Expression. The laboratory has a highly collaborative culture and is committed to promoting high quality interdisciplinary research. We are particularly interested in candidates carrying out such research in **Bioinformatics, Functional Genomics, Morphogenesis** at the cellular and sub-cellular level, **Chemical Biology** and **Molecular Medicine**.

The successful candidates will be appointed in either the **Cell Biology and Biophysics, Developmental Biology** or **Biochemical Instrumentation** Programmes, or in the **Biocomputing Unit**. Priority will be given to candidates whose research bridges two or more of these areas.

Information about the research groups in these Programmes at EMBL-Heidelberg can be found on the **EMBL web page** (<http://www.embl-heidelberg.de>).

Candidates should contact Iain Mattaj, the EMBL Scientific Coordinator, or the appropriate Programme Coordinator: Stephen Cohen (Developmental Biology), Eric Karsenti (Cell Biology and Biophysics), Matti Saraste (Structural Biology incl. Biocomputing), Wilhelm Ansorge (Biochemical Instrumentation). Email addresses: 'sumame'@embl-heidelberg.de).

Qualifications include postdoctoral experience and an excellent research record.

Closing date for applications: 10 December 1999

EMBL is an inclusive, equal opportunity organisation. By providing an exciting and stimulating research environment consisting of young, independent research groups it also provides access to outstanding graduate students and postdocs. The Laboratory provides financial help in relocating families and excellent child care is available.

Applicants should submit a curriculum vitae, quoting reference no. 99/74, with a concise description of research interests, and should arrange for three letters of recommendation to be sent to:

The Personnel Section, EMBL, Postfach 10.2209, 69012 Heidelberg, Germany.

Fax: +49 6221 387555 email: jobs@embl-heidelberg.de

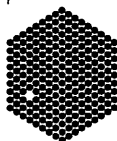
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ASSOCIATE/SENIOR EDITOR

The American Chemical Society, the world's largest scientific membership association, is seeking an Associate/Senior Editor for *Modern Drug Discovery*, a magazine for professionals in the pharmaceutical and biotechnology communities. Responsibilities include contributing to the editorial direction of the magazine, writing original articles to meet monthly deadlines, editing and proofreading copy, working with artistic and technical presentation of material, researching and close coordination with authors, editors and production staff and representing the publication at meetings and through site visits. The ideal candidate will possess an advanced degree in chemistry or closely related field, 5+ years experience in pharmaceutical/drug discovery industry, excellent oral and written communication skills and a team orientation. Editorial publishing experience a plus. The American Chemical Society offers an outstanding compensation and benefits package. Please forward your resume, writing sample and salary requirements to: American Chemical Society, Attn: JKL111-99, 1155 16th St. NW, Washington, DC 20036 or fax to: (202) 776-8295, or e-mail to employment@acs.org. Visit our WEB site at <http://www.acs.org>. ACS is an equal opportunity employer.



FELLOWSHIPS



EMBL

International PhD Programme

The European Molecular Biology Laboratory will award predoctoral fellowships in 2000 to University graduates wishing to study for a PhD at EMBL Heidelberg (Germany), at the EMBL Outstations in Hinxton (Cambridge, UK), Hamburg (Germany), and Grenoble (France) or at Monterotondo (Italy). Areas of study include:

- Cell Biology and Biophysics
- Developmental Biology
- Gene Expression
- Structural Biology
- Bioinformatics/Biocomputing
- Instrumentation

Candidates must hold, or anticipate receiving in 2000, either a first or upper second class honours degree, a masters degree, a diploma or equivalent in the biological sciences, physics, chemistry or mathematics.

Candidates for EMBL fellowships should be citizens of an EMBL member state (Austria, Belgium, Denmark, Finland, France, Germany, Greece, Israel, Italy, The Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom).

In addition, two fellowships will be awarded to candidates from East Europe (member states of the Council of Europe) sponsored by the Fondation Louis-Jeantet de Médecine.

The deadline for receipt of completed applications is January 10, 2000. Successful candidates are awarded fellowships in mid-March 2000 to start work at EMBL on October 1, 2000 at the latest. The duration of a fellowship is 3½ years. Recognizing the high quality of the EMBL International PhD Programme, EMBL became in December 1997 the first international institution providing training in Molecular Biology in Europe that was granted the right to award its own PhD degree. Currently, EMBL's PhD students obtain their degree from a national university. In the near future, they may have two additional options: to receive a joint degree from a national university and the EMBL or to receive their degree from EMBL alone.

Application forms and a brochure giving further information about research at EMBL and the groups participating in the EMBL International PhD programme are available on request from the: Dean of Graduate Studies, Dr Matthias W Hentze, EMBL Postfach 10 22 09, D-69012 Heidelberg, Germany, (Tel. +49 6221 387 430, Fax: +49 6221 387 400, E-mail: predocs@embl-heidelberg.de).

Application forms can also be downloaded directly from:

<http://www.emblheidelberg.de/ExternalInfo/PhdProgramme/Download.html>

POSITIONS OPEN

DIRECTOR THE RESEARCH INSTITUTE FOR CHILDREN New Orleans

The Louisiana State University School of Medicine and the Children's Hospital, New Orleans, seek outstanding candidates for the Directorship of the Research Institute for Children. Candidates should hold an M.D. and/or Ph.D., should have an established career in a field of research pertaining to children's illnesses, and a proven track record in obtaining extramural funding. The successful candidate will be expected to continue this research, as well as facilitate the research of other members of the faculty at the School of Medicine who are interested in research pertaining to children and pediatric diseases. A new 60,000 square-foot research tower building to house the research institute, including a vivarium for small animals, will be completed on the campus of the Children's Hospital, New Orleans, within two years to replace the current temporary facility. The position will carry a faculty appointment as Vice Chairman for Research of the Department of Pediatrics at the Louisiana State University School of Medicine. Administrative and financial support is provided by the Hospital for the Research Institute.

Applicants interested in being considered for this challenging and exciting opportunity should submit a copy of their curriculum vitae to: **Dr. Alan M. Robson, Senior Vice President-Medical Director, Children's Hospital, 200 Henry Clay Avenue, New Orleans, LA 70118, or by FAX: 504-896-9707, or e-mail: jhendric@chnola.org.**

RESEARCH ASSOCIATE

A position is available to join a multidisciplinary drug discovery group. The position involves primarily the cloning and characterization of protein tyrosine kinases. The successful candidate will have a Ph.D. with experience in molecular biology and interest/experience in enzymology and structure function relationships. Individual must be independent, yet work as part of a research team. To apply send curriculum vitae and three references to: **Raymond Budde, Ph.D., Department of Neuro-Oncology, Box 316, M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. E-mail: rjbudde@mdanderson.org. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL POSITION is available immediately to study calcium sparks and spikes on cardiac excitation-contraction coupling using patch-clamp and confocal fluorescence imaging techniques. Experience in electrophysiology in cardiac myocytes is preferred. Send curriculum vitae, and three references to: **James S. K. Sham, Ph.D., Division of Pulmonary and Critical Care Medicine, Johns Hopkins Asthma and Allergy Center, Baltimore, MD 21224. FAX: 410-550-2612; e-mail: jsks@welchlink.welch.jhu.edu.**

POSTDOCTORAL POSITION is available to study molecular cell biology and biochemistry of inducible human nitric oxide synthase. Ph.D. or M.D. and experience in molecular biology, cell biology and/or biochemistry are desired. Apply to: **Dr. N. T. Eissa, Baylor College of Medicine, 6565 Fannin, FBRN B 567, Houston, TX 77030. FAX: 713-793-1445; e-mail: teissa@hotmail.com. Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.**

POSTDOCTORAL POSITION available for structural studies of membrane proteins channels and transporters using high-resolution electron microscopy. Candidates with a background in structural biochemistry, biophysics, or protein expression should send a curriculum vitae to: **Dr. A. K. Mitra, Department of Cell Biology, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037. E-mail: mitra@scripps.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION (NIH-funded) in mucosal immunology available December 1999, to study how molecular design impacts desired T cell responses using live vector and DNA vaccine delivery systems. Conducted studies will focus on the influences of antigen-presenting cell as well as neutrophils (inflammatory responses) in biasing host mucosal immune responses in the gastrointestinal tract. Applicants must have a Ph.D., cellular immunology experience and ability to design experiments relevant to T cell stimulation and cytokine assays. Some molecular biology experience is desirable. Send a letter of application, curriculum vitae, and names of three references to: **Dr. David W. Pascual, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-3610. FAX: 406-994-4303; e-mail: dpascual@montana.edu. Americans with Disability Act/Affirmative Action/Equal Opportunity/Veteran's Preference.**

Two **POSTDOCTORAL POSITIONS** are available immediately to investigate the molecular mechanisms determining the biologic behavior of non-Hodgkin's lymphoma. Candidates must have a strong background in molecular biology. Experience in bioinformatics, immunology, and cancer biology preferred. The Lymphoma Study Group at the University of Nebraska Medical Center (UNMC) has a long and distinguished record in lymphoma treatment and research and is currently expanding its research effort in the basic biology of lymphoma. Interested candidates should send their curriculum vitae and three references to: **Dr. W. C. Chan, Department of Pathology and Microbiology, 983135 University of Nebraska Medical Center, Omaha, NE 68198-3135.**

University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

A **POSTDOCTORAL POSITION** is available immediately for a NIH-funded program to study immune responses against the Hepatitis C Virus. HCV frequently causes a persistent, life-long infection in humans. We are investigating how HCV-specific CD8+ and CD4+ T cells govern the outcome of infection (see *Immunity* 10(4):439-49, 1999) and new vaccine technologies to prevent chronic Hepatitis C. Our laboratory is located in the Wexner Institute for Pediatric Research, a state-of-the-art facility affiliated with the Department of Pediatrics at the Ohio State University. To apply, send your curriculum vitae and the names of three references to: **Dr. Christopher M. Walker, Department of Pediatrics, Children's Research Institute, 700 Children's Drive, Room W503, Columbus, OH 43205.**

The New York University/Bellevue Division of Pulmonary and Critical Care Medicine announces three postdoctoral research fellowship positions: 1) lung cancer focusing on transgenic mice that have altered p53 and/or RB pathways, 2) environmental lung disease (silicosis and apoptosis), and 3) critical care medicine (ARDS model in transgenic mice, requires M.D.). Please send curriculum vitae and three references to: **William Rom, M.D., M.P.H., Professor, Division of Pulmonary and Critical Care Medicine, Bellevue 7N24, NYU-SOM, 550 First Avenue, New York, NY 10016. E-mail: romw01@gcrc.med.nyu.edu.**

POSTDOCTORAL POSITION

Postdoctoral position available immediately to study HIV-1 morphogenesis and the functions of auxiliary viral proteins at Harvard Medical School. A major focus is how HIV-1 limits cell killing during virus production. Experience in molecular biology is necessary. Applicants should send curriculum vitae and names of three references to: **Dr. Heinrich Gottlinger, Dana-Farber Cancer Institute, 44 Binney Street, JFB 824, Boston, MA 02115. FAX: 617-632-3113. E-mail: heinrich.gottlinger@dfci.harvard.edu. Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL CELL AND MOLECULAR BIOLOGIST

A postdoctoral position is available in the laboratory of **Dr. Paul Dent**. The position is funded from a training grant for which only American citizens and permanent residents may apply. In addition, the applicant agrees upon completion of the fellowship to take a position at an academic institution. The position will be to study the interactions between signal transduction pathways and transcriptional control of the cell cycle in primary hepatocytes. Studies are to gain an understanding of defective growth arrest mechanisms during tumorigenesis. Highly motivated candidates with experience in cellular and molecular biology are encouraged to apply. Animal handling and adenovirus construction a plus. Send curriculum vitae and the names and addresses of at least three references by mail or e-mail to: **Dr. Paul Dent, Department of Radiation Oncology, 401 College Street, Massey Cancer Center, Medical College of Virginia, Virginia Commonwealth University, Richmond, VA 23298-0058 USA. E-mail: pdent@hsc.vcu.edu.**

POSTDOCTORAL FELLOWSHIP POSITION

Postdoctoral fellowship in virology. Cloning, sequencing, and analysis of bovine malignant catarrhal fever gamma herpes virus. Experience in herpes virus purification, PFGE, genome walking, DNA cloning, and sequence analysis desirable. Send curriculum vitae with research interests and three reference contacts to: **Dr. James DeMartini, Department of Pathology, Colorado State University, Fort Collins, CO 80523. Telephone: 970-491-5410; FAX: 970-491-0603; e-mail: jcdemar@cvmbs.colostate.edu. Colorado State University is an Equal Employment Opportunity/Affirmative Action Employer.**

Applications are invited for a **POSTDOCTORAL RESEARCHER/SPECIALIST** to conduct studies on the pathogenesis of chlamydial infections. Candidates with a background in molecular biology with an emphasis on tissue PCR techniques and/or immunohistochemical analysis are preferred. Salary range: \$29,700-\$46,700. Candidates should send a curriculum vitae and the names, addresses, e-mail, and telephone numbers of three references to: **Ellena Peterson, Ph.D., Department of Pathology, Medical Sciences Building, Room D440, University of California, Irvine, CA 92697-4800. E-mail: epeterso@uci.edu. University of California, Irvine is an Equal Opportunity Employer committed to excellence through diversity.**

POSTDOCTORAL FELLOWSHIP MOLECULAR IMMUNOLOGY

A position is available immediately to study mechanisms of complement inhibition and strategies for the targeted delivery of complement inhibitors to sites of disease. Experience in molecular biological techniques and protein expression is required. Fellows will be supported by an NIH training grant, requiring U.S. citizenship or resident status. Send curriculum vitae and names of three referees to: **Dr. Stephen Tomlinson, New York University School of Medicine, Department of Pathology, 550 First Avenue, New York, NY 10016. E-mail: tomlis01@popmail.med.nyu.edu.**

POSTDOCTORAL POSITION Wound Healing Research Laboratory

A Postdoctoral position is available in an established, NIH-funded wound healing laboratory. Candidates should have a Ph.D. degree, molecular biology/cell biology techniques and excellent written/oral communication skills. Experience with signal transduction research is a plus. Competitive salary and numerous project opportunities. To apply, send a curriculum vitae with three letters of reference to: **Dr. Thomas A. Mustoe, Northwestern University, 303 East Chicago Avenue, Ward Building 19th Floor, Chicago, IL 60611.**

HUMAN ANATOMY AND PHYSIOLOGY

The Department of Biological Sciences, Southern Illinois University Edwardsville invites applications for a tenure-track position at the Assistant Professor level. We seek applicants with broad training in biological sciences and experience teaching human anatomy and physiology. The primary teaching responsibility of the successful candidate will be human anatomy and physiology and an upper division course in his or her specialty. Candidates should exhibit potential for independent and innovative research involving Master's and undergraduate students. Qualifications: A Ph.D. in biology, anatomy or physiology with teaching experience in human anatomy and physiology. Post-doctoral teaching and/or research experience preferred. To apply, send a letter of application with a statement of your teaching philosophy and research interests, *curriculum vitae*, copies of official university transcripts, names and addresses of three references, and no more than three reprints to: **Anatomy and Physiology Search Committee, Southern Illinois University Edwardsville, Department of Biological Sciences, Box 1651S, Edwardsville, IL 62026.** Review of applications will begin on January 1, 2000 and continue until position is filled. SIUE is a comprehensive regional university located in the St. Louis Metropolitan Region, and is dedicated to excellence in undergraduate education. *SIUE is an affirmative action employer.*

EUROPEAN OPPORTUNITIES

NFR Naturvetenskapliga forskningsrådet

Swedish Natural Science Research Council

invites applications for

SENIOR RESEARCH POSITIONS in

Bioinorganic Chemistry (Ref: 611-2413/99) The field comprises studies of reactivity and coordination chemistry of metal ions in biological systems.

Space Physics Related to the EISCAT Svalbard Radar (Ref: 611-2420/99)

The Deep Biosphere, especially Microorganisms in Crustal Rocks and Hydrothermal Systems (Ref: 611-2414/99)

Theoretical description of dynamic processes in chemistry (Ref: 611-2422/99)

Thin Film Magnetism (Ref: 611-2423/99)

The Council's intention in creating these positions is to contribute to the recruitment of researchers and to the renewal of research in Sweden. The programme is aimed primarily at scientists with a doctorate and several years of post-doctoral research. The positions are held for three plus three years and are placed at appropriate university departments in Sweden to be chosen in consultation between the candidates, NFR and the universities. The applicant is kindly requested to state at which university he/she wants the position to be placed. The universities decide on tenure. Duties can commence from July 1, 2000. The salary range will correspond to that of an assistant/associate professor (SEK 300 000-390 000 per year, i. e. USD 37 000-48 000 per year).

A curriculum vitae including a list of publications, a short research plan plus a description (maximum six pages) of scientific achievements and pedagogical skills, and a maximum of ten reprints of scientific papers should be appended. Other documents which the applicant wants to refer to could also be included. Four copies of the application and all appendixes and reprints should be submitted.

Applications, quoting Ref, should reach the Swedish Natural Science Research Council, Box 7142, S-103 87 Stockholm, Sweden, by December 15, 1999.

Further information can be obtained from Ms Natalie Lunin at the Secretariat of NFR, phone no +46 8 454 42 32, e-mail-address Natalie.Lunin@nfr.se, fax no +46 8 454 42 50.

Planning a Scientific Event in Europe in 2000?

New for 2000 is *Science's* Millennium Events Calendar

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Text & booking deadline
19th November

EUROPEAN OPPORTUNITIES



Nestlé

THE NESTLÉ RESEARCH CENTER IN LAUSANNE

is seeking a

Senior Research Scientist

To join a growing protein engineering team to understand structure-function relationships in active food systems.

The successful candidate is expected to have a strong background in protein engineering, protein chemistry or structural analysis and computer assisted protein modelling.

Applicants should have a Ph.D., postdoctoral experience as well as ability to lead research programs. Other skills required: excellent written and oral communication skills in English, ability to work well in a multi-disciplined team environment.

Should you be interested, please send your application including curriculum vitae and names of three references (address and telephone) to the following address:

Nestlé Research Center
Human Resources
Attn: Mrs. A. Dolci Rey
P.O. Box 44
CH-1000 Lausanne 26
Switzerland

POSITIONS OPEN

POSTDOCTORAL POSITION FOR TRANSLATIONAL/INTERVENTION RESEARCH IN PROSTATE CANCER

A NIH-funded postdoctoral position is available starting January 1, 2000, for translational/intervention research on the role of vitamin D in prostate cancer. The position offers the opportunity to take a leading role in the design and conduct of clinical and community trials in prostatic disease. Opportunities for translational (molecular epidemiologic and pre-clinical studies) also exist.

Applicants must be U.S. citizens or permanent residents and should have a doctoral degree in epidemiology (or equivalent training) and less than one year of postdoctoral training as of January, 2000.

Forward a cover letter, curriculum vitae, and two letters of reference to:

Gary G. Schwartz, Ph.D.
Scientific Director
Prostate Cancer Center of Excellence
Comprehensive Cancer Center of
Wake Forest University
Medical Center Boulevard
Winston-Salem, NC 27157
E-mail: gschwartz@wfubmc.edu

Wake Forest University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION AVAILABLE IMMEDIATELY

Seeking a POSTDOCTORAL FELLOW to join a dynamic research team engaged in studying HIV/HIV pathogenesis and active/passive immunoprophylaxis to prevent mother-infant transmission of HIV. Experience in cellular immunology is highly desirable. Preference will be given to candidates who can be interviewed personally in Boston. Send curriculum vitae and names of three references to: Dr. Ruth Ruprecht, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. E-mail: ruth_ruprecht@dfci.harvard.edu. FAX: 617-632-3112. Equal Opportunity Employer.

POSTDOCTORAL FELLOW MOLECULAR TOXICOLOGY

Position available immediately for a Fellow with experience in molecular biology and/or cell culture. Incumbent will be involved in the development and application of new technology to study genetic changes in human cells and tissues, in order to elucidate the mutagenic pathways to cancer in humans. Send curriculum vitae and references to: Dr. Phouthone Keohavong, Department of Environmental and Occupational Health, Graduate School of Public Health, 260 Kappa Drive, Pittsburgh, PA 15238. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

Two POSTDOCTORAL POSITIONS are available immediately to study the cytolethal distending toxin from the periodontal pathogen, *Actinobacillus actinomycetemcomitans* (Infect. Immun. 67:1227, 1999). Positions are minimum of three years on NIH grant. Applicants must have a Ph.D. and experience in bacterial genetics and/or cell biology. Please send curriculum vitae and the names of three references to: Dr. Joseph DiRienzo, Department of Microbiology, School of Dental Medicine, University of Pennsylvania, 4001 Spruce Street, Philadelphia, PA 19104. FAX: 215-898-8385; e-mail: dirienzo@pobox.upenn.edu.

POSTDOCTORAL POSITION

A position is available immediately to study the role of endothelin-1 in the pathogenesis of chronic pulmonary hypertension. Two years postdoctoral experience preferable. A strong background in molecular biology, cell culture, and receptor techniques is essential. Send curriculum vitae to: Dr. Barbara Meyrick, Center for Lung Research, Vanderbilt University Medical Center, MCN T-1217, Nashville, TN 37232-2650. E-mail: barbara.meyrick@mcmail.vanderbilt.edu.

POSITIONS OPEN

POSTDOCTORAL RESEARCH OPPORTUNITY

A postdoctoral position is available for an individual interested in conducting basic research in the etiology and treatment of various ear disorders, including Meniere's disease, cholesteatoma, balance disorders, and hearing loss. Candidates should hold a Ph.D. and should have training and experience in molecular biology, especially gene cloning and library construction. Good communication and writing skills a plus. Send a curriculum vitae, description of research experience, and the names and addresses of three references to:

John L. Dornhoffer, M.D.
Director, Division of Otolaryngology/
Department of Otolaryngology/
Head and Neck Surgery
University of Arkansas
for Medical Sciences
4301 West Markham, MS-543
Little Rock, AR 72205
E-mail: dornhofferjohnl@exchange.nams.edu

POSTDOCTORAL POSITION HARVARD/MEEI

Postdoctoral position is available to study the development of the zebrafish retina and the sensory epithelia of the inner ear. An extensive collection of mutations affecting these organs is available for further analysis. We are primarily interested in loci involved in early morphogenesis, specification of cellular diversity, and organization of neurons. A combination of genetic, molecular, and embryological approaches is used to study these problems. Several defects currently under investigation are relevant to human retinal disorders. Highly motivated individuals with a recent Ph.D. are invited to apply. Please send curriculum vitae, two recent reprints and names of three referees to: Dr. Jarema Malicki, HMS/MEEI R513, 243 Charles Street, Boston, MA 02114. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Two positions are available for Fellows to join an established research program that focuses on the site and mechanism of action of biological toxins that act on the nervous system. Potential areas for research include: a) molecular biology studies such as expression of toxin mutants to help analyze structure-function relationships, b) cell biology studies to characterize mechanisms for toxin binding to receptors, and c) anatomical studies to visualize and characterize mechanisms for toxin entry into cells. Applicants should send curriculum vitae to: Dr. Lance Simpson, Professor of Medicine and Chief of the Division, Room 314-JAH, Jefferson Medical College, 1020 Locust Street, Philadelphia, PA 19107. Thomas Jefferson University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in ZEBRAFISH GENOMICS AND BIOINFORMATICS available immediately to coordinate informatics for WashU Zebrafish Genome Project (see website: <http://zfish.wustl.edu>) and develop new bioinformatic methods for application of zebrafish EST and mapping resources. Unique environment combines interactions with genome center and experimental biology. UNIX and Perl experience required. Send curriculum vitae and three letters of reference to: S. Johnson, Department of Genetics, Box 8232, Washington University Medical School, 4566 Scott Avenue, Saint Louis, MO 63110.

POSTDOCTORAL POSITION

Immediate opening for recent Ph.D. to initiate studies of antigen processing and immune evasion by viruses (website: <http://www.med.umich.edu/microbio/malinir.html>). Please e-mail or FAX curriculum vitae to: Malini Raghavan, Department of Microbiology and Immunology, University of Michigan Medical School. FAX: 734-764-3562; e-mail: malinir@umich.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS VASCULAR CELL AND MOLECULAR BIOLOGY Harvard Medical School

Two positions are available in The Vascular Research Division, Departments of Pathology, Brigham and Women's Hospital/Harvard Medical School to join our research team in vascular cell biology. The projects include study of: (1) structure/function of proteins that constitute endothelial cell lateral junctions; (2) mechanisms underlying the induction of T cell adhesive mechanisms triggered via T cell receptor (TCR) activation and differentiation that regulate T cell-endothelial cell adhesion. Candidates should possess strong background in molecular biological, immunological, and biochemical techniques. Send curriculum vitae and names and telephone numbers of three references by FAX or e-mail to: Dr. Bill Lusinskas, Department of Pathology, Brigham & Women's Hospital, Boston, MA 02115. FAX: 617-732-5933; e-mail: flusinskas@rics.bwh.harvard.edu. An Affirmative Action/Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available immediately to study the role of matrix metalloproteinases in the development and progression of aneurysmal disease of the abdominal aorta. Supported by NIH and American Heart Association grants. Candidates should have an M.S., M.D., or Ph.D. with experience in molecular or cellular biology. Highly competitive salary and benefits package commensurate with experience. Send curriculum vitae, a letter describing research background and interests, and the names and telephone numbers of three references to: Dr. B. Timothy Baxter, Department of Surgery Research, University of Nebraska Medical Center, 983280 Nebraska Medical Center, Omaha, NE 68198-3280. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available in the Cardiovascular Institute and Department of Cell Biology and Physiology of the University of Pittsburgh. Projects involve studying the mechanism of arrhythmias and sudden death in transgenic and gene-targeted mice. Prior experience with electrophysiology of cardiac myocytes, molecular biology and/or optical mapping using voltage and calcium-sensitive dyes is required. Please send curriculum vitae and two references to: Barry London, M.D., Ph.D., Cardiovascular Institute, University of Pittsburgh Medical Center, BST 1744, 200 Lothrop Street, Pittsburgh, PA 15213-2582. Telephone: 412-383-8750; FAX: 412-383-8857. E-mail: londonb@msc.upmc.edu.

POSTDOCTORAL POSITION available immediately for studies of apoptosis of cortical neurons *in vivo* in the context of animal models of Alzheimer's disease. Applicant must have a Ph.D. or M.D. and experience in molecular methods/immunohistochemistry. Previous work with animal procedures/surgery is highly desirable. FAX or e-mail curriculum vitae and the names of three references to: Dr. Vasilis E. Koliatsos, Division of Neuropathology, Johns Hopkins University School of Medicine, Ross Building Room 558, 720 Rutland Avenue, Baltimore, MD 21205. FAX: 410-955-9777; e-mail: koliat@jhmi.edu.

POSTDOCTORAL POSITIONS in the Center for Immunology (website: www.borg.labmed.umn.edu/imm.html); Dr. Bruce Walcheck or Mitchell Abrahamsen. Must have completed a Ph.D. or equivalent foreign degree by start date. Experience in immunology, biochemistry, or molecular biology preferred. Send cover letter; curriculum vitae; names, mail and e-mail addresses of three references by December 15, 1999, or until position is filled to: Shan Balmer, University of Minnesota, 447 VTH, 1365 Gortner Avenue, Saint Paul, MN 55108. The University of Minnesota is an Equal Opportunity Educator and Employer.

BBSRC David Phillips Fellowships



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Full details of all conditions and down loadable application forms will be available from the beginning of November 1999 from the BBSRC's website (<http://www.bbsrc.ac.uk>).

The closing date for completed applications is: 15 December 1999.

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GLOBAL OPPORTUNITIES



RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY
Kerala, India

**WANTED: LIFE SCIENTISTS
AND BIOTECHNOLOGISTS**

The Rajiv Gandhi Centre for Biotechnology, an autonomous R & D Centre under State Committee on Science, Technology and Environment, Government of Kerala, would like to recruit Life Scientists and Biotechnologists holding Indian Citizenship. The Centre undertakes research and training in areas such as Infectious Diseases, Environmental Biotechnology, Plant Molecular Biology, Transgenic Plants and Animals, Molecular Biology of Genetic Diseases and Molecular Basis for Biological Functions. The Centre has several DBT-funded positions available in the above specialisations and related areas at different levels, for Scientists having consistently first rate academic record, proven record of scientific productivity in the form of peer-reviewed publications in national/international journals of repute, and proven track record.

Appointments shall be on project mode for three years in the first instance with the possibility of further extension. The positions will range from **Scientist-II** : (Pay Scale : Rs.8000-275-13500) to **Scientist- VI**: (Rs. 16400- 450-20000). The length of experience and the quality of scientific productivity record will be major factors in deciding the level of appointment as well as the salary offered. A few higher positions could also be made available for suitable candidates with outstanding international standing and record of publications. Shared laboratory space and some initial intramural funding will be available. However, appointees are expected and will be encouraged to attract project based research funding.

Interested persons are requested to send their detailed bio-data furnishing particulars of qualifications, professional experience/ achievements and positions held, with reprints of publications and the names, addresses, telephone, fax numbers and e-mail addresses of three professional referees, addressed to the **Controller, Rajiv Gandhi Centre for Biotechnology, Jagathy, Thiruvananthapuram- 695 014, Kerala, India by December 5, 1999.** (e-mail: rgcibt@md2.vsnl.net.in.)

World Health Organization



International Agency for
Research on Cancer (IARC)

Research Scientist

The International Agency for Research on Cancer (IARC) has a vacancy at its headquarter in Lyon, France, for a post of Research Scientist in the **Unit of Gene-Environment Interactions** (<http://www.iarc.fr>).

The successful applicant is expected to start a new program to participate in studies towards understanding the mechanisms of genomic integrity and cancer development. In particular, the role of the applicant is to investigate the function of molecules that are involved in DNA damage response pathways, such as DNA repair, cell cycle checkpoints and chromatin functions using biochemical and molecular tools.

Applicants should have a Ph.D or equivalent in molecular and biochemical training, minimum of 3 years post-doctoral experience. A solid background in biochemistry, molecular biology, particularly in the field of DNA-protein, or protein-protein interactions, or chromatin functions would be an advantage.

The position will be for 5 years, with the first year being probationary, and is suitable for a young scientist wishing to pursue his/her career in cancer-related research. Space and resources will be provided together with scientific and technical support. He/She will have access to the full range of support services provided by the IARC. The official languages at IARC are English and French.

The IARC provides usual benefits from the United Nations system. The annual salary level (tax free) is US\$ 42,730 at single rate, and US\$ 45,777 for a staff member with primary dependants, plus a cost of living element which is currently 26 % of the above figures. Relocation assistance will be provided. Those interested should write, enclosing their *curriculum vitae* and a brief statement of research interests, to: **Personnel Office, IARC, 150 Cours Albert-Thomas, F-69008 Lyon, France. Fax: +33-4-72 73 83 35.**

POSITIONS OPEN

POSTDOCTORAL POSITION DEPARTMENT OF CHEMISTRY UNIVERSITY OF MINNESOTA

The Department of Chemistry, University of Minnesota, is accepting applications for the position of **POSTDOCTORAL ASSOCIATE**. This position involves the characterization of fatty acyl-CoA dehydrogenase flavoproteins by electrochemistry, UV-vis spectroscopy, rapid reaction kinetics and Raman spectroscopy. The effects of substrate/product analog binding on redox and kinetic properties will also be studied using wild-type and mutant enzymes. A Ph.D. in chemistry or biochemistry is required; experience with enzyme kinetics, enzyme purification, electron transfer properties, or electrochemistry is highly desirable. Position is available in early December, 1999. Please send a curriculum vitae and names of three professional references by December 1, 1999, to **Professor Marian T. Stankovich, Department of Chemistry, University of Minnesota, 207 Pleasant Street Southeast, Minneapolis, MN 55455** (e-mail: stankovi@chem.umn.edu). *The University of Minnesota is an Equal Opportunity Educator and Employer.*

POSTDOCTORAL POSITIONS available in molecular cardiology at University of California at San Francisco. Current projects include: cloning novel transcription factors; signal-dependent cell cycle regulation; array analysis of gene expression; approaches to myocardial regeneration. See website: <http://bernstein.ucsf.edu> for details. Requirements include U.S. citizenship/permanent resident status; Ph.D. and/or M.D.; strong background in molecular/cellular biology. Send curriculum vitae, research summary, and three references to: **H. S. Bernstein, M.D., Ph.D., University of California, 505 Parnassus Avenue, Box 0130, San Francisco, CA 94143. FAX: 415-514-0235; e-mail: hsbernstein@pedcard.ucsf.edu.** *Affirmative Action/Equal Opportunity Employer.*

DREYFUS POSTDOCTORAL FELLOWSHIP ENVIRONMENTAL CHEMISTRY

University of Massachusetts Dartmouth, in collaboration with Brown University and Woods Hole Oceanographic Institution, invites Ph.D. chemists or chemical engineers for a postdoctoral fellowship focusing on application of natural stable isotopic techniques to studies of global biogeochemical cycles. Graduate-level work with mass spectrometer techniques/chemical separations, and evidence of strong research potential is preferred. Applications, including a curriculum vitae, selected publications, research statement, and three recommendation letters should be sent to: **Professor Mark A. Altabet, Department of Chemistry and Biochemistry, University of Massachusetts Dartmouth, 285 Old Westport Road, North Dartmouth, MA 02747-2300.** For more information see website: www.umassd.edu/chemistry/postdocad.html. *University of Massachusetts Dartmouth is an Affirmative Action/Equal Employment Opportunity Employer.*

POSTDOCTORAL SCIENTIST. LiDon Technologies, a company committed to developing enabling technologies for scientific and medical applications in cardio-pulmonary research and drug discovery, is seeking a physiologist/biophysicist with a relevant Ph.D. Experience in epithelial assays, cell culture and knowledge of signal transduction mechanisms is required. Additional experience in whole animal physiology, fluorescence detection techniques, molecular biology and knowledge of computer programming is a plus. Respond to: **L. B. Wong, Ph.D. (e-mail: lwong@lidon.com), LiDon Technologies, Suite 309, CTP Research Center, 2201 West Campbell Park Drive, Chicago, IL 60612-3501.**

POSTDOCTORAL POSITION available to study the molecular mechanisms by which growth/differentiation factors play a role in mammalian reproductive system. Experience in molecular and cellular biology is essential. Send curriculum vitae and three references to: **Dr. Shunichi Shimasaki, Department of Reproductive Medicine, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0633. FAX: 858-822-1482.**

POSITIONS OPEN

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POSTDOCTORAL POSITION UNIVERSITY OF MICHIGAN Department of Radiation Oncology

A postdoctoral position in the Division of Radiation and Cancer Biology is available immediately to develop a new category of radiosensitizing drugs which affect cell cycle checkpoints. The Division includes five laboratories, with areas under investigation relating to drug-radiation interactions, enzyme/prodrug gene therapy, radiation-induced and growth-factor-regulated signal transduction, and triggering of p53 induction and apoptosis. The successful candidate will have a Ph.D. and a strong background in cell biology, molecular biology, or molecular pharmacology. Interested applicants should send their curriculum vitae and names of three references to: **Theodore S. Lawrence, M.D., Ph.D., Professor and Chair, Department of Radiation Oncology, University of Michigan, 1500 East Medical Center Drive-UH2C490, Ann Arbor, MI 48109-0010.** *Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH MOLECULAR IMMUNOLOGY

Position available to study the role of BCL3 and NF- κ B transcription factors in normal lymphocyte physiology and in cancer. Projects involve immunological analysis of transgenic and knockout models and the study of transcriptional regulation and protein-protein interactions. Experience in cellular immunology, molecular biology, or mouse models is expected. Please send letter of interest outlining professional background, current curriculum vitae, and list of references to: **Timothy McKeithan, M.D., Ph.D., Department of Pathology and Microbiology, University of Nebraska Medical Center, 983135 Nebraska Medical Center, Omaha, NE 68198-3135.**

University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

The University of Michigan seeks two highly qualified candidates for **POSTDOCTORAL POSITIONS**. The selected candidates will study the transcriptional regulation of apoptosis, oncogenesis, metastasis, and inflammation (*Mol. Cell. Biol.* 19:5923; *Science* 274:784; *Science* 278:1812; *Science* 281:1680; *Nature Medicine* 5:412). Experience in cell and molecular biology or genetics is preferred.

Interested candidates should forward a curriculum vitae along with three references to: **Cun-Yu Wang, D.D.S., Ph.D., Laboratory of Molecular Signaling and Apoptosis, Department of BMS, University of Michigan, 1011 North University, Ann Arbor, MI 48109-1078 or FAX/E-mail: 734-763-3453; cunyuwang@umich.edu.**

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POSTDOCTORAL POSITIONS

Two postdoctoral positions are available for highly motivated Ph.D. graduates to study mechanisms of signaling JNK and IKK (*Science* 268:286-290, 1995, *JBC* 272:24751-24754, 1997, and *MCB* 18:7336-7343, 1998). Please send curriculum vitae and three reference letters to: **Dr. Anning Lin, Ben May Institute for Cancer Research, University of Chicago, 5841 South Maryland Avenue, MC 6027, Chicago, IL 60637, e-mail: alin@benmay.bsd.uchicago.edu.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Dartmouth College has postdoctoral fellowship positions immediately available within a multidisciplinary NIEHS-sponsored research program focused on the toxicology of toxic metals in the environment, which includes individual and collaborative projects in cellular and molecular toxicology (**A. Barchowsky, J. Hamilton, J. Sinclair, P. Sinclair**), bioinorganic chemistry and biochemistry (**J. Hamilton, D. Wilcox**), epidemiology (**M. Karagas**), ecotoxicology (**C. Folt**), and geo- and hydrogeochemistry (**J. Blum, C. Renshaw**). Fellows are encouraged to develop interdisciplinary research projects that involve collaborations among research groups within the program and/or between members of the program and other laboratories within the university. Visit our website: www.dartmouth.edu/~dcsbrp/ or e-mail: carol.watson@dartmouth.edu for further information about individual projects and the overall research program. Send curriculum vitae and three letters of reference to: **Dr. Joshua Hamilton, Director, Dartmouth College Superfund Basic Research Program, Department of Pharmacology and Toxicology, 7650 Remsen, Dartmouth Medical School, Hanover, NH 03755-3835 or by e-mail: josh.hamilton@dartmouth.edu.** *Dartmouth College is an Affirmative Action/Equal Opportunity Employer.*

MIT—POSTDOCTORAL ASSOCIATE

The Division of Bioengineering and Environmental Health at MIT seeks an individual to work on cytokine engineering for improved therapeutic safety, efficacy, and specificity, by directed evolution. Requirements: Ph.D. with strong molecular/cell biology background.

Interested candidates should submit a résumé and cover letter referencing Job No. 99-0877 to: **Professor Wittrup, Division of Bioengineering and Environmental Health, 66-552, 77 Massachusetts Avenue, Cambridge, MA 02139-4307.** MIT is a non-smoking environment. *MIT is an Equal Opportunity/Affirmative Action Employer.*

FELLOWSHIPS

FELLOWSHIPS IN MATHEMATICS AND MOLECULAR BIOLOGY

Description: The Program in Mathematics and Molecular Biology (PMMB), with support from the National Science Foundation and the Burroughs Wellcome Fund Interfaces Program, offers graduate and postdoctoral fellowships for training and research at the interface between mathematics and molecular biology. Applicants must propose a project with both a mathematical and a biological component in order to be considered. PMMB fellowships can be held at any university or college in the United States.

Deadline: February 1, 2000. Funding can begin between July 1, 2000, and December 1, 2000.

Contact: **Program in Mathematics and Molecular Biology, Department of Mathematics, Florida State University, Tallahassee, FL 32306-4510; telephone: 850-644-8710; FAX: 850-644-6612; e-mail: pmmb@math.fsu.edu; website: <http://www.math.fsu.edu/~pmmb/>.** Downloadable applications available on our website.

WORKSHOPS

UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER Department of Pathology

MOLECULAR MORPHOLOGY WORKSHOPS. Santa Fe, New Mexico, February 6 to 8, 2000. Workshops and demonstrations specifically designed for the person working hands-on at the bench. Grouped into six units: ISH and FISH; IS-PCR and probe design; laser capture microdissection, cDNA expression arrays; automation of molecular morphology; and image cytometry. For information FAX: 405-271-1107 or e-mail: ldebault@ouhsc.edu. Visit our website: www.isamm.org.

EUROPEAN OPPORTUNITIES

PROFESSOR POSITION IN ENDOCRINOLOGY. The University of Nice, France. Experience in teaching general endocrinology is necessary; lectures will be in French. The candidate will join a research team involved in the study of ion and solute permeability in different mammalian, amphibian, or fish models (isolated cells and epithelia). The successful candidate will develop his own research program, but interests or interactions with the other research teams will be expected. Contact: **Jordi Ehrenfeld UNSA/CNRS (ERS 1253) Villefranche sur Mer, France.** Telephone: 33 49 3765215; FAX: 33 49 3765219; e-mail: ehrenfeld@ccrv.obs-vlfr.fr.

GLOBAL OPPORTUNITIES

TENURE-TRACK POSITION in Zoology for Animal Geneticist or Animal Developmental Biologist/Endocrinologist. Research experience in organismic biology necessary, plus ability to teach (in Hebrew). Suitable candidates will be submitted for an Alon Fellowship. Candidates with postdoctoral experience should submit curriculum vitae, list of publications and request three letters of reference to be sent to: **The Chairman, Department of Zoology, Tel Aviv University, Ramat Aviv 69978, Israel.**

POSITION ANNOUNCEMENT

Faculty of Agricultural Engineering
Technion-Israel Institute of Technology

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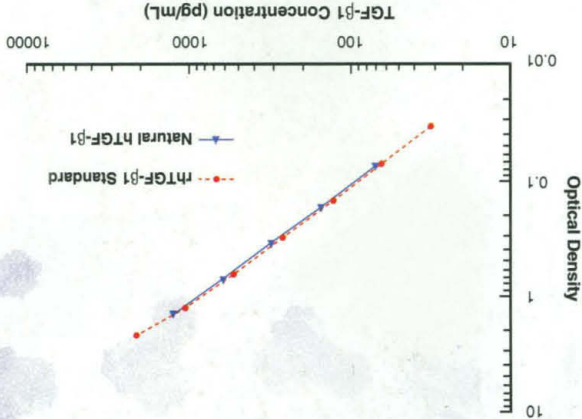
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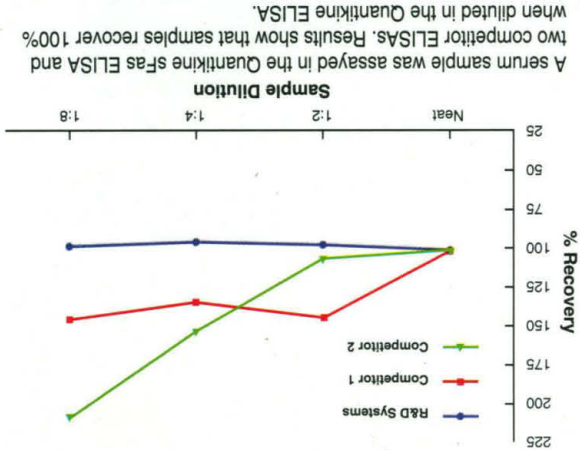
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