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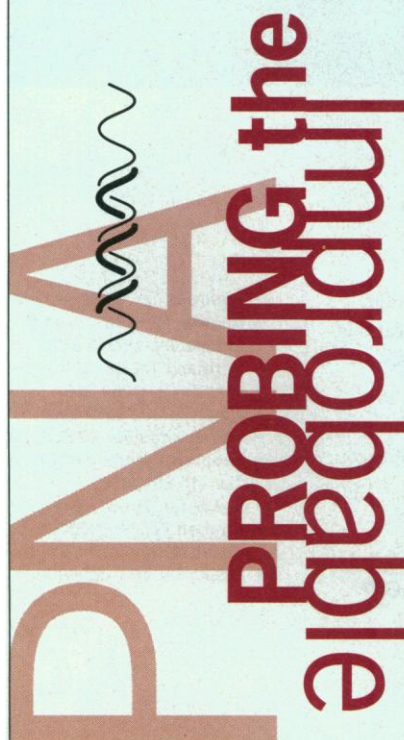
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PCR DNA samples (25 ng) of either wild-type homozygous (N/N) or carrier heterozygous (X/N) were denatured and hybridized with 0.5 pmol of fluorescein labeled wild-type PNA (WT), or mutant PNA (M). (Reprinted with permission from Proceedings of the National Academy of Science.)

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and contamination concerns associated with target amplification methods, such as polymerase chain reaction. For example, single copies of HPV16 in SiHa cells can be detected in just 5 hours with this system. The system can be used with routinely processed tissue (including formalin-fixed paraffin sections) or cell preparations. A similar CSA system for immunohistochemistry offers signal amplification 20 to 200 times greater than traditional avidin-biotin methods. **DAKO.** For information call 800-424-0021 or circle 145 on the Reader Service Card.

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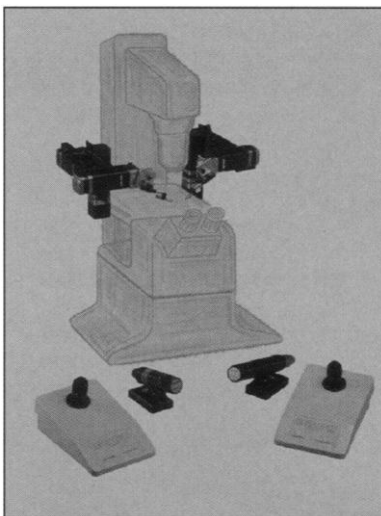
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Literature

Access to Transgenic Technologies is a 32-page guide to transgenic rodent technology. Beginning with a brief history of transgenics, the book includes a thorough review of the considerations for maintaining, sharing, and distributing transgenic research animals. **Taconic.** For information call 888-TACONIC or circle 149 on the Reader Service Card.

Application of Polymeric HPLC Phases to Pharmaceutical Assays is an application note on the separation of a number of compound classes by high-performance liquid chromatography. **Hamilton.** For information call 800-648-5950 or circle 150 on the Reader Service Card.

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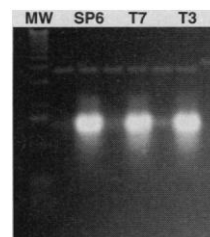
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Recruitment Advertisement Directory

West Coast Careers in Biotechnology and Pharmaceuticals

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West Coast Careers in Biotechnology and Pharmaceuticals

by Michael Woods



Where are the hot spots to hunt for a job in the biopharma industry? There's plenty of territory to prospect. More than 1,300 biotechnology companies dot the American landscape. Most career opportunities await those who enter the biopharmaceutical zones, belts, districts, and communities that have sprung up over the last 20 years.

America's "hotbed communities" of bioscience are being named and mapped by a San Francisco-based Internet publisher, Synergistic Designs, Inc. There's "Pharm Country" (New York, New Jersey, and Pennsylvania); the "BioCapital" (Maryland and Washington, D.C.); "Genetown" (Massachusetts); "Research Triangle" (North Carolina); "Medical Alley" (Minnesota); "Biotech Bay" (northern California); and "Biotech Beach" (southern California). Awaiting names are belts in the Pacific Northwest, Texas, and the Great Lakes.

California alone accounts for about 1 out of every 3 biotech jobs. Most are in the San Francisco Bay area, San Diego, and Orange and Los Angeles counties. Some optimists project creation of 20,000 new biotech jobs in the state by the year 2000.

We sampled the career market at Genentech in the Bay area. Then we switched focus to career opportunities at small, emerging companies with a stop at Prizm Pharmaceuticals in San Diego. Finally, we visited W. L. Gore & Associates, Inc., in Flagstaff, Arizona, an area striving to become a new bioscience community.

The Product Pipeline at Genentech

Product pipelines figure heavily in hiring decisions at biopharmaceutical companies. Candidate drugs flow out of the lab toward general clinical use in well-defined stages. Companies with a lot of products far back in the pipeline, at preclinical or early clinical trials, have one set of hiring needs. Those with drugs about to emerge into clinical medicine may seek process science people who optimize recovery processes, scale-up to commercial production levels, and develop manufacturing technology.

With several products nearing the pipeline's end, Genentech plans increased hiring in manufacturing, according to Michael Coyne, team leader, scientific recruiting. In Phase III trials, for instance, are nerve growth factor for peripheral neuropathies in diabetics, and a breast cancer compound called anti-HER2. Awaiting market clearance is Nutropin, for growth hormone deficiency.

Michael Woods, writes frequently on the biotechnology and pharmaceutical industries.

continued ►



Michael Coyne

Making It on the Coast

Can a bioanalytical chemist from "Pharm Country" make it big in Biotech Beach? Will a cell biologist from "Gene-town" fit into the

research culture around Biotech Bay? Aside from good scientific skills, do you need special personality traits or slants on life to succeed in a West Coast career?

Despite what some job seekers may think, there actually is no "right stuff" for a successful West Coast career, according to Genentech's Michael Coyne. Coyne, team leader, scientific recruiting, cited a cluster of personality and other traits critical for success in almost any biopharmaceutical community.

Included: Good written and verbal communication skills, the ability to get along with coworkers in a team environment, collaborate and share information and ideas, accept criticism, be flexible, and exercise judgment.

Coyne also gets excited about PhD-level applicants who combine creativity with an "entrepreneurial spirit." The key elements are lots of drive, intensity, enthusiasm, initiative, and a willingness to take calculated risks in pursuing research leads.

Scientists who gravitate to the West Coast sometimes do share leisure and lifestyle interests that capitalize on the climate and diverse geography. Backpacking, snow skiing, sailing, cycling, kayaking, surfing, and other outdoor pursuits can be a major factor in attracting scientists to West Coast careers. Employees who share such interests may find it easier to make friends, find a mentor, and network.

But Coyne said that plenty of scientists who settle on the West Coast have no special interest in outdoor activities. For them, the coast beckons because of its cultural diversity, strong academic community, career opportunity, and professional environment.

in adults. Genentech partner IDEC Pharmaceuticals filed a submission for the C2B8 antibody for non-Hodgkin's B-cell lymphoma.

Coyne said Genentech is seeking people on the BS/MS and PhD levels. At the BS and MS levels, this means quality control analysts, biochemical technicians, assay analysts, research assistants, research associates, and senior research associates. Profiles include: A degree in biochemistry, molecular biology, cell biology, virology, or chemistry. Definite pluses: Lab experience, especially utilizing techniques that Genentech needs. At the PhD level, Genentech seeks molecular biologists, chemical engineers, cell biologists, pharmacokineticists, toxicologists, pathologists, neuroscientists, molecular oncologists, organic chemists, and bioanalytical chemists with protein experience.

Genentech maintains an average of 60 postdoctoral scientists on payroll and expects to hire about 12 postdocs annually. For specific requirements, Coyne advises candidates to check Genentech's postdoc ads that appear quarterly in *Science*, or the Genentech website at <http://www.gene.com>.

Genentech anticipates continued hiring of consultants and temporary staff to supplement its full-time R&D effort, and has an onsite "temp" agency. Coyne said that temporary staffing has obvious pluses for biopharma companies. They can staff up for a specific project, and then quickly de-staff when the project is done.

Less widely appreciated are the benefits for workers. "It's an excellent opportunity for people to gain experience in the biotech industry," Coyne explained. "For an entry-level person, this might be a great way of getting a foot in the door. A lot of times at career fairs, I'll encourage an entry-level person to register with our temp agency. It gives them biotech experience. They get to know the company and a specific job. We get to know them. Usually they're the first people we consider for full-time staff. We do a lot of temp-to-perm conversions."

Among the traits that Genentech seeks in applicants, aside from scientific competence, are good communication and "influencing" skills. "Influencing means that they know how to assert their

influence," Coyne explained. "But they do it in a way that is tactful and doesn't offend other people. It motivates them."

A Candidate's Market in San Diego

"San Diego is one of the leading centers for biotechnology, creating an excellent situation for scientists looking for a job in an attractive and livable area. It is very much a science candidate's job market here. There is a deficit of job candidates because so many companies are recruiting from a limited supply of qualified people."



Lucy Babbitt

As manager of human resources for PRIZM Pharmaceuticals, Lucy Babbitt is in the thick of the West Coast biopharmaceutical job boom. PRIZM is developing drugs that target the

intrinsic mechanisms regulating growth factors. The company has identified unique therapeutic control points that regulate cell growth and is using these control points as targets for the development of drugs to eliminate diseased cells. Recent extensions of its technology confer specificity and selectivity to gene delivery.

The Company's lead program, Directin technology, is an approach that exploits the body's natural mechanisms to deliver both proteins and DNA to diseased cells. When Directin technology is applied to gene therapy, it overcomes some of the major technical issues that have limited the clinical applications of DNA delivery to treat disease. Directin technology provides the specificity, selectivity, and enhanced gene expression necessary for an effective gene therapy-based product. It delivers both proteins and DNA to diseased cells via unregulated cell surface receptors.

For this reason, PRIZM's current hiring plans emphasize people with gene therapy expertise. The company is looking for scientists with backgrounds in a variety of disciplines including cell and molecular biology (specifically phage display, receptor biology, protein trafficking), immunology, virology, protein chemistry and formulation. Most openings are at the PhD-level, but there are also research associate positions

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Neuroscientist

Our Neuroscience Department, a team of world-class, multi-disciplinary Scientists with an outstanding track record of major discoveries in molecular and cellular neurobiology [see Cell 80:95-101(1995), Nature Medicine 1: 774-780 (1995), Nature 382:76-79 (1996), Nature 382:80-83 (1996), Neuron 19:15-26 (1997), Nature 387:717-721 (1997)] is seeking a thought leader in cellular/molecular neuroscience with an outstanding record of creativity and productivity. The appointee will be given considerable freedom to initiate and determine the direction of a research program on the function of the nervous system as it relates to therapeutic approaches to neurological disorders and to collaborate with colleagues at universities, institutes, and other companies. Job Code: SCI370

Scientist - Peptide/Organic Chemist

We are seeking a peptide/organic chemist to work closely with Researchers in the Protein Engineering Department to provide peptide-like mimics for large peptides/proteins. You must have a competent background in synthetic peptide/organic chemistry and want to apply these skills to problems in drug design. A strong interest in protein design and applications of chemistry to important problems in biology also essential. Requires a PhD or equivalent and 2+ years of postdoctoral or independent research. Job Code: SCI1006

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which require a BS or MS degree. "In especially high demand," Babbitt said, "are people with cell biology, immunology, and formulation experience."

What gives job candidates an edge? Relevant postdoctoral experience in well-recognized academic laboratories or industry experience at other established biotechnology companies. Candidates with previous industry experience or a strong publication track record are very attractive. Babbitt encourages BS/MS students to do internships at biotechnology companies during the summer.

As is common in emerging biopharmaceutical companies, PRIZM sometimes draws upon the expertise of consultants and outsources certain aspects of a project to other companies. Outsourcing is effective for projects with short time frames and allows the company to avoid overstaffing.

To fill short-term positions, PRIZM also uses technical temporary staffing agencies in the San Diego area. "Temporary work can be a great way of getting experience and learning the corporate culture at different companies," she noted. For longer-term needs PRIZM advertises, recruits at universities, and hires research personnel directly.

PRIZM staked out its spot on "Biotech Beach" late in 1992 when it was founded by scientists from two old-line institutions, the Salk Institute and the Whittier Institute for Diabetes and Endocrinology at The Scripps Research Institute. "The mix of well-established and emerging bioscience organizations in the San Diego area makes it an attractive area for science workers," Babbitt noted.

Babbitt is excited about the advantages of working at a smaller firm like PRIZM, which has about 50 full-time employees. Scientists may find themselves leading a project or research group years before it would be possible at a bigger firm. There is an allure to making a major impact early in a career. In the smaller environment, scientists often can see how their work impacts directly on the direction and success of the company.

Recruiters for smaller firms may place a special emphasis on candidates who will fit into the corporate culture. Especially well suited for biotech are creative individuals with strong communication skills

and leadership ability who thrive in a changing, fast-paced, interdisciplinary team environment.

Biocompatible Polymers at W. L. Gore

The Medical Products Division of W. L. Gore & Associates, Inc., in Flagstaff, Arizona, develops biocompatible artificial medical devices that are implanted in the body: Synthetic veins and arteries. Patches of polymer material for repair of heart defects, hernias, and other soft-tissue reconstruction. Sutures for vascular, cardiac, orthopedic, and general surgery. Regenerative materials that help the body regenerate fibers and bone destroyed by periodontal disease or trauma. The products involve GORE-TEX[®] expanded polytetrafluoroethylene (PTFE) polymers that are strong, flexible, and do not trigger rejection by the immune system.

"Our hiring interests reflect the product line," said Harriette Campbell. "We're definitely looking for people who can work with these polymers to develop products that improve patient treatment and shorten recovery, allow less invasive procedures, and give surgeons new solutions to medical challenges."

Who should apply? People with backgrounds in biofilms or elastomers, biosensor technology, vascular or cardiovascular technology, minimally invasive or interventional technology, fluid dynamics, drug delivery, and pharmacology.

Gore's R&D efforts are expanding, and the firm plans to boost hiring to about 50–70 new scientific-level staff during its current fiscal year. What are the hottest careers? Polymer chemists, microbiologists, biomaterials engineers, chemical engineers, biomedical engineers, as well as plastics, mechanical, industrial, and electrical engineers. Most of the new hires will be on the doctoral level. Some Master's-level positions, however, are available for microbiologists, industrial engineers, and certain other personnel.

Applicants with previous research experience have an edge, Campbell said. "We're usually looking for people who can bring new research expertise to our teams," Campbell said. "That's why we tend to get away from the Bachelor's-level person. They usually don't have the research expe-

rience. We are interested in people who have a science degree, have worked in industry, and then completed an advanced degree program. That's the ultimate—to have industry experience and an advanced degree in a field of interest to Gore."

Assume that an applicant has excellent scientific skills. What other traits could tip the balance?

"We value good communication skills, verbal and written, and interpersonal skills, people skills. Being a team player is very important. We look for people who are self-motivated, who don't need to be micromanaged. People should be willing to share their ideas, information, knowledge."

Flagstaff's quality-of-life appeal and core academic facilities could help make it a new center of biopharmaceutical research, Campbell said. Northern Arizona University, for instance, has about 19,000 students on the Flagstaff campus. Gore is working with Flagstaff economic development officials and community leaders to attract science-based companies to the area. With 1,100 employees, including 300–400 scientists and engineers, Gore is the largest private employer in Flagstaff.

Campbell is enthusiastic about the area's geographic allure, and reminds applicants that Arizona is not all desert.

"Flagstaff is at an elevation of about 7,000 feet. We have four seasons, snow for down-hill and cross-country skiing, many lakes and rivers for water skiing, canoeing, and hiking. The Grand Canyon is 90 miles away. We're a city of 50,000 in the middle of the world's biggest Ponderosa pine forest. Flagstaff is a healthy community for raising children." ■

Participate in Career Workshops:

Join us for an online discussion group on diversity in the scientific work force at the Science Professional Network Web page (www.sciencemag.org). Click on Science Professional Network, and then click on Career Workshops. An expert in the field of work force diversity will be available to answer your questions for the month from November 17 through December 15.

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Combining your scientific creativity with state-of-the-art medicinal chemistry techniques, you will participate as a member of a multidisciplinary team of scientists engaged in the development and synthesis of clinical candidates. You will lead small molecule drug discovery projects focused on the design and optimization of biologically active molecules. You will need a Ph.D. in organic chemistry and 3-5 years of experience in the pharmaceutical industry. (Job Code: 2935)

RESEARCH SCIENTIST I- PROTEIN STRUCTURE ANALYSIS

You will perform structure analysis, sequence, composition, and mass spectrometry experiments. This will involve providing data analysis, preparing regulatory documentation, and supervising lab staff. Requires a Ph.D. with post-doctoral experience, including a strong biochemistry background with a protein chemistry specialization; HPLC, amino acid analysis, SDS-PAGE, edman degradation, and fragment generation techniques desired. Mass spectrometry, electrospray and maldi-tof techniques with knowledge of GMP/GLP/QA preferred. (Job Code: 2941)

RESEARCH SCIENTIST II- DNA PROBES REFERENCE LAB

You will make conceptual contributions to project strategies, initiating, designing, developing and implementing research projects pertaining to diagnostics, biopharmaceuticals, therapeutics, or technologies. Bachelor's degree with a minimum of 10 years' related experience or a Master's with 8 years' experience are required. Your background must demonstrate a wide application of related scientific principles with an in-depth knowledge of laboratory procedures/equipment. Familiarity with relevant scientific literature, plus the ability to make contributions to scientific publications and presentations will be expected. (Job Code: 2942)

RESEARCH SCIENTIST I-PHARMACOKINETICS

You will build a core LC/MS capability to support the rapid analysis of *in vivo* biological samples and help identify the best compounds for pharmacology discovery projects. Requires a Ph.D. in a related discipline, 0-5 years' experience with extensive knowledge of organic chemistry, plus skills in HPLC, MS and/or other quantitative measurement techniques. Experience evaluating small molecule metabolism and/or familiarity with robotics/lab automation equipment preferred. (Job Code: 2934)

POST-DOCTORAL FELLOW-PHARMACOL/PK

You will provide collaborative research support to develop new therapies for cancer and inflammatory diseases. This will include making protein expression constructs in yeast as well as bacterial/viral expression constructs for gene therapy. Requires a Ph.D. in molecular biology or related field with at least 2 years' experience with molecular cloning, protein expression and mammalian cell culture manipulation. Experience with lab animals is a must. Knowledge of tumor biology is a plus. (Job Code: 2938)

www.chiron.com

Visit our Web site for more details on Chiron career opportunities, including:

Research Specialist II-DNA Probes Reference Lab
(Job Code: 2836)

Research Associate III-Artificial Ligands
(Job Code: 2908)

Research Associate III-Protein Chemistry
(Job Code: 2800)

Research Associate II-DDR Chemistry
(Job Code: 2911)

Research Associate I-Therapeutic Formulation
(Job Code: 2927)

Research Associate I-Cell Biology
(Job Code: 2910)

We welcome those with the dedication, spirit and flexibility needed to rise to the ambitious challenge of our mission. To learn more, send your resume, referencing Job Code corresponding with the position of your interest, to: Chiron Corporation, Human Resources, 4560 Horton Street, Emeryville, CA 94608. We are an equal opportunity employer.

CHIRON

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We've got it! At Bio-Rad, we're creating innovative products, many of which are the first of their kind, that are helping the world's foremost life science laboratories achieve breakthroughs in drug discovery for healthcare and therapeutics. Here's your opportunity to take on the challenge.

We have immediate and on-going opportunities for enthusiastic and entrepreneurial individuals for the following positions:

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Located in the beautiful San Francisco Bay Area, Bio-Rad offers attractive relocation and compensation packages. To apply, please forward your resume to: Bio-Rad Laboratories, Human Resources, Dept SM/100, 2000 Alfred Nobel Drive, Hercules, CA 94547. Fax: (510) 741-5803. E-mail: lsg_employment@bio-rad.com. An EEO/AA Employer.

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POSTDOCTORAL FELLOWSHIPS

DNAX Research Institute, located near Stanford University, carries out research in a variety of areas of molecular and cellular biology with an emphasis on immunology, oncology, cell signaling and functional genomics.

Two postdoctoral positions are immediately available in the laboratory of Dr. J. Fernando Bazan to work in a multidisciplinary environment centered on structural biology. Candidates should have a solid background in either (1) computational biology stemming from bioinformatics, fold prediction/modeling or X-ray/NMR structure determination, (2) protein biochemistry or biophysics (including expression, functional manipulation, folding, spectrometry), or (3) molecular biology and genetics with interests in applied molecular evolution (phage display, DNA shuffling) or protein structure/function design.

Qualified applicants should send a curriculum vitae, statement of research interests, recent reprints, and the names and phone numbers of three references to: Human Resources Department, DNAX Research Institute, 901 California Avenue, Palo Alto, CA 94304-1104. DNAX is an equal opportunity employer, m/f/d/v.

DNAX Research Institute

Neurex Corporation, a rapidly growing biopharmaceutical company focused on the development of an exciting portfolio of products for the acute care hospital setting, is searching for the following:

Project Manager

We are seeking a Project Manager to manage interdisciplinary project teams to successfully execute development plans leading to high quality regulatory filings (IND, NDA).

Your duties will include both the day-to-day management of preclinical & clinical studies and interacting with outside scientists, clinicians & vendors. Requires a Ph.D. in Life Sciences/Toxicology and 4+ years' pharmaceutical experience.

Neurex offers competitive salaries, a comprehensive group insurance program and attractive stock options. Please send your resume to: **Neurex Corporation, HR, Job Code: JL-1**, 3760 Haven Ave., Menlo Park, CA 94025. FAX: (650) 853-1538. E-mail: efeene@neurex.com. No phone calls, please. EOE.

www.neurex.com



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As an emerging force in the biopharmaceutical industry, we've been very successful at discovering great talent to develop some of the world's most innovative vaccine technologies. Already in Phase II/III clinical trials, our live vaccines for parainfluenza and influenza have shown great promise and may soon save billions of dollars and thousands of lives. With new vaccines on the horizon and expanding opportunities throughout the company, our dynamic team is looking for new key players.

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BIOSTATISTICIAN

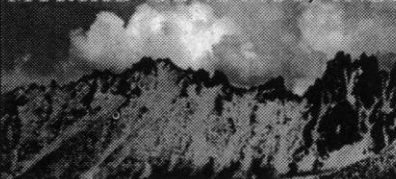
We are seeking individuals with a minimum of 1-2 years' industry experience.

Aviron offers a highly attractive salary and benefits package—complete with great stock options. If interested, please send resume to: Aviron, Attn: HR - 110S, 297 N. Bernardo Ave., Mountain View, CA 94043; fax 650/919-6610. Aviron welcomes candidates from diverse backgrounds. EOE.

Aviron



MYRIAD GENETICS, INC.



****EMPLOYMENT OPPORTUNITIES**** **Salt Lake City, UT**

Myriad Genetics is an innovative genomics company focused on the isolation of significant disease-causing genes. Our scientific achievements include elucidating the role of the p16 tumor suppressor gene in cancer and identifying genes involved in breast, ovarian, and brain cancer. We currently have major programs in asthma, cancer, central nervous system disorders, coronary heart disease, obesity, and osteoporosis. Expansion of our gene identification and gene characterization efforts provides a number of exciting opportunities for highly motivated individuals. To learn more, visit our web page at: www.myriad.com.

Scientists

You will lead a team to identify genetic defects underlying common human diseases by positional cloning. Requires a Ph.D. with 2 - 5 years of relevant postdoctoral experience. Broad background in human or model organism genetics, molecular biology or biochemistry.

Statistics and Informatics

Myriad is searching for applicants to join its Statistics and Informatics group. The group, currently 12 people, is led by Dr. Alun Thomas and works in computer support, databases, software development and statistics. Salaries dependent on qualifications and experience.

Statistician

The successful candidate should have an MSc in statistics with a significant computational emphasis. Experience in problems in genetics or epidemiology would be an advantage, as would experience with UNIX, Splunk, and C, C++ or Java programming.

Programmer

The successful candidate should have a BSc in Computer Science, or equivalent and have two years experience in C, C++ or Java programming on a UNIX platform. Knowledge of Sybase and GUI programming would be a considerable advantage.

We offer an attractive compensation package and a stimulating, interactive research environment. Please mail or fax a cover letter, specifying the position you are applying for, a complete resume, and the names of three professional references to: Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108. FAX: 801-584-3640. EOE.



MYRIAD

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At SyStemix, our isolation of the hematopoietic stem cell was a first. This remarkable accomplishment reflects our ability to bring together an experienced team of professionals to achieve our mission. We believe our continued success as a leader in advanced cell and cell-based therapies for cancer, genetic disorders and HIV will be based on the people we bring together today. Come join us as we isolate the opportunities that will take us to the future.

RESEARCH SCIENTISTS I/II

We have 3 opportunities immediately available for Research Scientists. All positions require excellent communication skills with a team orientation.

- The first position will be responsible for characterizing novel gene products isolated from hematopoietic stem cells, applying tools of molecular and cellular biology. A Ph.D. in Molecular/Cellular Biology or a related discipline and 1-3 years' post-doctoral experience are a must. A familiarity with retroviral gene transfer and hematopoiesis is also required. Job #973056.
- The second position will evaluate, optimize, and develop antiviral inhibition strategies for the HIV gene therapy group. Candidates must have a Ph.D. in Molecular Biology, Biochemistry, or Immunology, 1-3 years' post-graduate research experience, and strong expertise in basic molecular biology and nucleic acid analysis. Previous experience in HIV infection assays, mammalian tissue culture techniques, and FACS analyses is also required. Experience with gene transfer techniques and retroviral vectors is desirable. Job #973053.
- The third position will be responsible for research projects focusing on stem cell-based HIV therapy. A Ph.D. in Molecular Biology or Immunology, 1-3 years' post-graduate research experience, and strong expertise in basic hematopoietic stem cell biology, including stem cell assays, are required. You must also have experience with HIV infection assays. A familiarity with mammalian tissue culture techniques, animal models for bone marrow transplantation, and FACS analyses is a must. Experience with gene transfer techniques and retroviral vectors is preferred. Job #974057.

SyStemix, a Novartis company, the world's largest pharmaceutical company, is proud to offer a collaborative environment complete with a competitive compensation and benefits package, including 3 weeks' vacation annually, a 401K plan, bonus program, educational assistance, a choice of medical plans, tax-deferred dependent/health care option, life insurance, and disability protection. To apply, mail or fax your resume, indicating Job #, to: **SyStemix, Inc., Dept. Science1197, 3155 Porter Drive, Palo Alto, CA 94304, FAX (650) 813-4121. Email: hr@stem.com.** An equal opportunity employer.

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SYSTEMIX

Postdoctoral Positions

COR Therapeutics, Inc. is a publicly-held biopharmaceutical company located in South San Francisco. We are focused on the discovery & development of novel therapeutics for the treatment of severe cardiovascular disease, and we are currently seeking 2 Postdoctoral Fellows to conduct original research and present & publish results.

Xa Position • Using a mutagenesis approach, you will determine structure-function relationships of coagulation factor Xa. Applicants should have a strong background in molecular biology or enzymology.

GP IIb-IIIa Position • You will discover basic mechanisms of integrin signal transduction with a focus on signaling of GP IIb-IIIa in platelets. Applicants should have a strong background in biochemistry, molecular biology or cellular biology.

We offer competitive salaries, outstanding benefits, attractive equity positions and the opportunity to make significant research contributions. To apply, please specify position of interest and send CV, a statement of research experience & career goals, and the names, addresses and telephone numbers of 3 references to: **COR Therapeutics, Inc., Human Resources Dept., Attn: Dr. Uma Sinha (Xa position) or Dr. David R. Phillips, (GP IIb-IIIa position), 256 East Grand Avenue, South San Francisco, CA 94080; Fax: (415) 244-9208; Email: hr@corr.com. EOE**

COR COR THERAPEUTICS, INC.

Fellowship Opportunities

The Postdoctoral Fellows Program at **Lawrence Livermore National Laboratory (LLNL)** currently has openings for candidates with exceptional talent, credentials, and track records to participate in original and independent research in one or more aspects of science relevant to the mission of LLNL, which includes Physics, Computer Science, Chemistry, Material Science, Engineering, Environmental, Energy, Laser Science, and Biological Science. Successful candidates may participate in experimental or theoretical work and will have access to extensive computing facilities, specialized laboratory facilities, and field equipment. A senior scientific staff will serve as a mentor.

Requires a recent Ph.D. degree in a relevant scientific field within the past five years, demonstrated creativity and exceptional ability and superior knowledge in their area of expertise. Experience in writing reports, scientific papers for publications and proposals and the ability to work independently as well as in a team environment is also required.

LLNL offers a challenging work environment and a competitive salary/benefits package. Applicants should send a resume to: **Lawrence Livermore National Laboratory, Attn: Kristine Kansa, L-725, P.O. Box 5510, R-4853, Dept. AJSCBE7KK, Livermore, CA 94551. LLNL is an Equal Opportunity Employer.**

Visit our website at www.llnl.gov/jobs

University of California
 **Lawrence Livermore National Laboratory**

Manufacturing Scientist Tissue Culture/Hybridoma Production

DAKO CORPORATION is an international biotechnology company that develops and distributes immunological reagents and diagnostic kits for use in hospitals and research laboratories and for various industrial purposes. DAKO is one of the world's leading manufacturers of antibodies and its products are used in many fields including histology, hematology, and immunology.

DAKO seeks a hands-on contributor to our multidisciplinary team who will establish licenced hybridoma cell lines for monoclonal antibody production. Must have experience in growth of mammalian cells in tissue culture. Responsibilities extend to antibody production and related downstream processing as well as growth of cell lines for quality control specimens. The person will develop, implement, and maintain manufacturing and testing methods for new and existing products; participate in new product scale-up and process optimization.

The ideal candidate will have Ph.D. in cell biology or a related field with 5+ years experience in tissue culture and 3+ years relevant manufacturing experience in a GMP or ISO 9000 regulated field.

Please mail/fax résumé to:

**Human Resources
DAKO CORPORATION
6392 Via Real
Capintaria, CA 93013
Fax: 805-684-5935**

SCIENTIST

Molecular Biosystems, Inc., a leader in the development and manufacture of contrast imaging agents for ultrasound is seeking a highly motivated individual to join the Technical Development Team.

Responsibilities include leading the development of current & future products, including product characterization by chemical & biochemical methods, packaging & shipping studies, & process improvements.

Requires a Ph.D. in Biochem., Analytical Chemistry, or Bioengineering with 5+ yrs laboratory experience in an industrial R&D environment. Must have excellent written & oral communication & organizational skills, supervisory experience, & the ability to travel.

MBI offers a competitive compensation program, comprehensive benefits package, & a professional working environment.

Send résumé to:

**Molecular Biosystems, Inc.
Attn.: HR Dept, A17-98
10030 Barnes Canyon Road
San Diego, CA 92121**



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Master's or PhD in any technical discipline with systems modelling content, plus at least two years' relevant industry experience. Strong teamwork and client skills are essential.

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Contact

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www.datafusion.net



DEPARTMENT OF SURGERY & DEPARTMENT OF GENETICS STANFORD UNIVERSITY SCHOOL OF MEDICINE ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, PROFESSOR

The Division of Otolaryngology/Head and Neck Surgery and the Department of Genetics invites applications for a joint appointment of a Ph.D. director of the Liem Sioe Liong Molecular Biology Laboratory at the Assistant Professor (Research), Associate Professor (Research), or Professor (Research) level. The individual will direct and conduct independent research in pathogenesis of head and neck diseases.

Qualifications include the Ph.D. degree; completed postdoctoral fellowships in either genetics, molecular biology, tumor immunology, or cancer biology; advanced training with evidence of productivity in research; and a commitment to teaching. The candidate should have demonstrated research experience, with publications in peer-reviewed journals, and current independent research funding for Associate Professor (Research) and Professor (Research) candidates. Candidates at the Assistant Professor (Research) level do not need to have current independent research funding to apply.

Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

Letters of inquiry with curriculum vitae and the four names and addresses of people familiar with the applicant's work should be sent to:

Willard E. Fee, Jr., M.D.
Edward C. and Amy H. Sewall Professor
Division of Otolaryngology/Head and Neck Surgery
Stanford University Medical Center
300 Pasteur, R-135 Edwards
Stanford, CA 94305-5328

Opportunities with ZymoGenetics

ZymoGenetics, Inc., a local biotechnology company located in Seattle's historic Lake Union Steam Plant, is seeking qualified candidates for the following positions:

Research Associates Fermentation

The Protein Expression Technology department is looking for two fermentation specialists to join the microbial fermentation effort at ZGI. The research associates will be part of a team which produces proteins for research and for pharmaceutical development.

Research Associate I/II

The candidate will express a variety of proteins in small scale fermentations using E. coli and yeast expression systems. The person will be required to operate and maintain computerized lab scale fermentation equipment as well as performing analysis on fermentation samples. The successful candidate for this position should have a B.S. in microbiology or in a biology-related field and at least 2 years experience with fermentation processes and bioreactors. Experience in a cGMP or fermentation pilot plant is a plus; strong communication and teamwork skills required. **Job ref# 15R997**

Research Associate III

The preferred candidate will have a strong background in yeast fermentation technology at the pilot plant level in a cGMP environment. Must be familiar with batch and fed-batch fermentations from 5 L up to 1200 L scale and with continuous cultures in the 2-150 L scale. The position requires experience in the operation of large continuous centrifuges (Westphalia) and other recovery equipment as well as a strong background in computer-assisted control strategies for fermentation operation, including capability of evaluating off-gas analysis data. The candidate will participate in the preventive maintenance of fermentation equipment while upholding an excellent daily operational order and meticulous record keeping. The preferred candidate should have a B.S./M.S. in biochemical engineering or in a biology-related field and 6+ years experience with scale-up processes, including experience with large scale bioreactors. Experience with cGMP processes preferred and strong communication and teamwork skills required. **Job ref# 15R1097**

As a subsidiary of NOVO NORDISK, the world's largest producer of industrial enzymes, ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package.

Please apply by sending a cover letter noting **Job reference #** and a detailed resume of your work experience and academic background to: ZymoGenetics, Inc., Attn: Human Resources; 1201 Eastlake Avenue East; Seattle, WA 98102. Please specify the position for which you are applying and the source or your referral. ZymoGenetics is an equal opportunity employer and encourages applications from women and minorities. Applicants will receive consideration without discrimination because of race, creed, color, sex, age, veterans status, national origin or disability. Applicants are invited to request reasonable accommodation to participate in the application process if necessary.

ZYMOGENETICS



Glyko Inc. is a leading supplier of carbohydrate analytic reagents to the academic, biotechnology, and pharmaceutical communities. Glyko's FACE technology combining polyacrylamide gels, fluorescent detection, CCD imaging, and recombinant enzymes has revolutionized the way scientists analyze carbohydrate structures. The field of Glycobiology is expanding rapidly and Glyko is entering an exciting new growth phase.

GLYCOBIOLOGIST

We are looking for a Ph.D.-level scientist to manage and oversee the operations of our growing carbohydrate analytic business. The successful candidate should have a strong background in Glycobiology. Business and management experience is highly desirable. This position offers an excellent salary/benefits and incentive package. Located 20 minutes north of San Francisco, Glyko also offers some of the best climate and culture in California.

Interested candidates should send résumés to:

**Christopher M. Starr, Glyko, Inc., 11 Pimental Court, Novato,
CA 94949 Tel: 415-382-6653**

FAX: 415-382-7889

E-mail: CMStarr@AOL.COM

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At PE Applied Biosystems, we're making some of the biggest breakthroughs in science happen. We're creating products that change the way researchers identify and analyze the building blocks of life. In just the last year, genes for breast cancer, skin cancer, Alzheimer's disease and hypertension have been identified by dedicated professionals using PE Applied Biosystems instrumentation, reagents and software. If you too are interested in positively contributing to breakthroughs in human disease research, come join us as we continue to impact the world of science.

GENETIC ANALYSIS R&D

POST DOCTORAL RESEARCHER

Responsible for designing and implementing experiments testing feasibility of mammalian cell capture on micro-fabricated devices and integration of cell capture with other microscale diagnostic procedures. Requires the knowledge and skills acquired through the successful completion of a Ph.D. with 0-5 years' relevant postdoctoral experience. Strong background in mammalian cell tissue culture and basic molecular biology techniques are required. Ref: 4094.

BIOCHEMIST, SCIENTIST II/III/SENIOR

Looking for an eclectic individual combining talents in biochemistry, analytical instrumentation and preferably some experience in apparatus prototyping and testing. Expect that this individual would acquire these talents during the completion of a doctorate and/or post doctoral program, and/or in industry subsequent to advanced degree work. Capable, creative individuals with Bachelor's or Master's degrees will be considered. Experience in enzymology, electrophoresis, especially of DNA or RNA, very beneficial. Teamwork is essential, as is the ability to drive projects from feasibility to product stage. Ref: 5243.

SCIENTIST, II/III

Responsible for research and development of new reagents for fluorescent DNA sequencing; troubleshooting of chemistry-related issues; optimization of reagent usage for various applications; and presenting results at scientific meetings/seminars. Requires an MS or Ph.D. in Molecular Biology, Biochemistry or related field with 5 or more years of industrial experience. Demonstrated familiarity with automated fluorescent sequencing, DNA isolation, PCR, and DNA electrophoresis is desirable. Excellent organizational skills and written and verbal communication skills are essential. REF: 4080.

In exchange for your talents, we offer a competitive salary and benefits package with advancement potential for your career. For consideration, please send your resume, noting appropriate reference #, to PE Applied Biosystems, Human Resources Department, 850 Lincoln Centre Drive, Foster City, CA 94404. You may also fax to 415/638-5874, email us at biocareer@perkin-elmer.com or see our home page on the WWW at <http://www.perkin-elmer.com> for more details. PE Applied Biosystems is an equal opportunity employer.

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Mendel Biotechnology Plant functional genomics

Mendel Biotechnology is an agriculturally oriented biotechnology company founded in 1997 with a science advisory board (SAB) consisting of Drs. **Chris Somerville** (Carnegie Institution), **Fred Ausubel** (Harvard Medical School), **Jonathan Jones** (Sainsbury Laboratory, UK), **Brian Staskawicz** (UC Berkley), and **Elliot Meyerowitz** (Caltech). Our aim is to explore the *Arabidopsis* genome to discover agriculturally important genes. Mendel Biotechnology is uniquely positioned to conduct world-class science in the area of plant functional genomics and to translate these discoveries into traditional and nontraditional agricultural products. We are seeking individuals with exceptional creativity, motivation, and scientific abilities to join us in this challenging and exciting opportunity.

Research Director

Candidates should be exceptional plant scientists with 5+ years of industrial experience. You will interact with the SAB to advance the scientific strategy and implementation of the Mendel scientific program. Candidates should have excellent communication and interpersonal skills and proven leadership abilities. Familiarity with patents, robotics, or informatics is desirable.

Scientist Positions

Candidates should have a strong interest or experience in plant functional genomics and have an in depth expertise in plant physiology, metabolism, biochemistry, molecular biology, bioinformatics, or plant development. Candidates should have the ability to work well in multidisciplinary teams. We are especially interested in scientists with over 3 year's postdoctoral experience who use multidisciplinary approaches to biological problems.

Research Associate Positions

Research associates will work in a multidisciplinary team setting, providing molecular biology expertise to the team. You should have a M.Sc. or B.Sc. degree with experience in molecular biology or genetics and the ability to work well in a team setting. Experience with plants and/or computer programs is desirable.

Mendel's state-of-the-art gene discovery and plant growth facilities are situated in the San Francisco Bay area in Hayward, CA. Mendel offers an attractive package and salary, benefits, stock options, a 401(k) plan and an exciting scientific environment. A résumé should be sent to **Dr. Mike Fromm, Mendel Biotechnology, 1 Edward's Court Suite 206, Burlingame, CA 94010** or e-mailed to mfromm@mendelbio.com. The closing date for applications is December 15th, 1997; however, applications will be accepted until the positions are filled. For additional information on Mendel visit our website at www.mendelbio.com.



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P.O. Box 117
Oak Ridge, TN 37831-0117
(423) 576-9975

Deadline January 15, 1998

**POSTDOCTORAL FELLOWSHIPS
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**Applied Ocean Physics & Engineering
Biology, Marine Chemistry & Geochemistry
Marine Geology & Geophysics
Physical Oceanography**

Applications are invited from new or recent doctorates in the fields of biology, molecular biology, microbiology, chemistry, engineering, geology, geophysics, mathematics, meteorology and physics, as well as oceanography. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise.

Fellowships are awarded for 18 month appointments with a stipend of \$38,500 per year, a modest research budget and eligibility for group health insurance. Recipients are encouraged to pursue their own research interest in association with resident staff. Completed applications must be received by **January 15, 1998** for the 1998-99 awards. Awards will be announced in March. Write for application forms to:

Dean of Graduate Studies,
Education Office, MS #31
Woods Hole Oceanographic Institution
Woods Hole, MA 02543-1541
Or call (508) 289-2219
or e-mail lcampbell@whoi.edu

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Infectious Diseases Group

- Senior Research Scientists/ Research Scientists
- Postdoctoral Fellows
- Staff Scientists

Join a new group at the forefront of antimicrobial drug discovery and development. We are focused on meeting unmet medical needs and the challenges of drug resistance through the discovery and development of innovative compounds leading to novel pharmaceuticals. Positions are available in antibacterial and antifungal research areas, beginning in January 1998.

Senior Research Scientists/Research Scientists

Candidates must have a track record of innovation and the ability to incorporate novel biological techniques into successful drug programs. You must have a strong working knowledge of microbial physiology, biochemistry, genetics, cloning strategies, use of genomics, and have 3+ years experience in drug discovery research including the identification of novel drug targets and the development of assays. A graduate degree, or equivalent, is required: Ph.D. or M.D./Ph.D. with expertise in molecular microbiology.

Successful candidates are expected to become leaders in a highly visible discovery program for the identification of small molecules to inhibit drug-resistant pathogens. Candidates will have significant responsibility for driving new and exciting antimicrobial research projects within the Infectious Diseases Group.

Staff Scientists

Candidates will be bright, enthusiastic professionals who possess the drive and intensity to interact effectively in our team environment at DuPont Merck. You must have a good knowledge of microbial physiology and biochemistry. Experience in molecular microbiology and assay development is preferred. BS/MS degree, or equivalent, required.

Research Scientists & Staff Scientists: Animal Model Development

Industrious and enterprising individuals who can thrive in a multidisciplinary team environment are sought to augment current in vivo pharmacology efforts. Experience in the establishment of animal models of human microbial infections is required. An understanding of the characterization of new therapeutics is desirable. Positions are available for suitably qualified Ph.D. and BS/MS, or equivalent, candidates.

Postdoctoral Fellows: Antifungal Research

Qualified candidates must be highly motivated, industrious, creative, and have no more than 5 years postdoctoral experience. You will work as part of a team focused on developing therapeutics to combat fungal infections. Experience in fungal physiology, genetics, biochemistry, and assay development is desirable.

DuPont Merck offers a competitive salary and a generous benefits package including 401K plan as well as excellent working conditions and challenging assignments. Please send letter of introduction, resume and one-page research summary to: The DuPont Merck Pharmaceutical Company, E400/2413-TA, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer, M/F/D/V.

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TENURE-TRACK POSITIONS IN DEVELOPMENTAL AND REPRODUCTIVE BIOLOGY

The Department of Cell and Developmental Biology and the Center for Research on Reproduction and Women's Health invite applications for tenure-track faculty positions in mammalian and non-mammalian systems relevant to reproduction and early development are encouraged to apply. Successful applicants will have primary appointments in the Department of Cell & Developmental Biology and occupy newly constructed laboratory space in the Center for Research on Reproduction and Women's Health, and will be expected to establish extramurally funded research programs and participate in the training of medical and doctoral students. Generous start-up support will be provided. Candidates should submit a curriculum vitae, summary of research accomplishments, future research plans, and three letters of reference to:



Dr. Norman B. Hecht
William Shippen, Jr. Professor of Human
Reproduction
Chair, Faculty Search Committee
c/o Dynita Washington
237 Anatomy-Chemistry Building
Univ. of Pennsylvania School of Medicine
Philadelphia, PA 19104-6058

AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER



THE CLEVELAND CLINIC FOUNDATION LERNER RESEARCH INSTITUTE

Chair, Department of Immunology

We are seeking a Chair for the Department of Immunology, which will occupy 20,000 sq. ft. in the new Lerner Research Institute building due for completion in the fall of 1998. The Lerner Research Institute has a commitment to excellence in basic and applied biomedical research with an annual budget in excess of \$50 million. The expansion of this department recognizes the Cleveland Clinic's traditional excellence in transplantation, tumor immunology and rheumatology, and its commitment to the study of immunologically based diseases and basic immune mechanisms. The present department consists of seven scientists with active research programs in regulation of T-cell function, cytokine signaling and monocyte/macrophage mediated inflammation. We are seeking candidates with outstanding national reputations as molecular or cellular immunologists with the vision and energy to recruit other talented scientists to build a world class department which will take advantage of the strengths of clinical programs. The Chair will be provided with generous space and start-up support, and recruitment packages for new staff.

Salary and fringe benefits are highly competitive. A curriculum vitae and names and addresses of three references should be sent to: **Bryan R. G. Williams, Ph.D., Search Committee for the Chair of Immunology, Cleveland Clinic Research Institute, NN10, 9500 Euclid Avenue, Cleveland, Ohio 44195.** On the Web - <http://www.ccf.org/ri/ccfri.html>. The search committee will receive applications through November 30, 1997. The Cleveland Clinic Foundation is an Equal Opportunity Employer.

DIRECTOR

JOHN B. PIERCE LABORATORY

Center for Research in Health and the Environment

The John B. Pierce Laboratory, Inc., invites applications and nominations for the position of Director, to start on or about July 1, 1999. An endowed, independent research institution affiliated with Yale University, the Laboratory operates under a charter to study effects of the physical and chemical environment on human health and well-being (see <http://jbpierce.org>). Current research incorporates approaches that range from the cellular to the systems level to study such topics as cardiovascular controls and regulations, respiratory responses to air pollutants, and sensory processes.

Applications are sought from individuals holding an M.D. and/or Ph.D. with outstanding accomplishments in research areas related to the Laboratory's charter and with administrative experience. The Director is expected to provide leadership in defining new areas of research opportunity and in supporting and integrating current research programs. The applicant should have the qualifications necessary for appointment as Professor in an appropriate department of the Yale University School of Medicine.

Applications, including a detailed resume and names and addresses of three references, should be sent to: Dr. Lawrence E. Marks, Chair - Search Committee, The John B. Pierce Laboratory, Inc., 290 Congress Avenue, New Haven, CT 06519

The closing date for applications is January 15, 1998. Applications received after this date may be considered until the position is filled. *The John B. Pierce Laboratory, Inc., is an affirmative action, equal opportunity employer, and welcomes applications from qualified women and minority candidates.*

DEPARTMENT CHAIR DEPARTMENT OF ZOOLOGY MIAMI UNIVERSITY

Applications and nominations are sought for the position of Chair of the Department of Zoology at Miami University. Candidates must have an excellent record of accomplishment in research within the discipline, proven interest and ability in effective teaching, a demonstrated commitment to equality of opportunity, and the capability of providing the administrative leadership to continue and extend the Department's established strengths in research, teaching, and service. The Chair has overall responsibility for undergraduate and graduate instruction, recruitment and evaluation of faculty and staff, and budgetary matters. The Chair will provide vision, strong leadership, and advocacy for the Department within the University.

The Department of Zoology has 36 faculty and 4 permanently budgeted postdoctoral positions, with over 900 undergraduate majors, and 30 M.S. and 20 Ph.D. students. Faculty on three campuses have nationally recognized and funded programs in Ecology & Environmental Biology; Physiology & Neuroscience; Development, Genetics & Molecular Biology; and Science Education. Major interdisciplinary programs exist with the Departments of Botany, Chemistry & Biochemistry, Geography, Geology, Microbiology, and Psychology. Specialized research facilities include an Electron Microscopy Facility, the Hefner Museum of Zoology, and a nearby 160-hectare Ecology Research Center with adjacent natural areas.

Miami, a state-assisted university, is nationally renowned for excellence in undergraduate education and in selected graduate programs. The University enrolls over 16,000 students at the main campus in Oxford, 35 miles northwest of Cincinnati, OH. Two regional campuses, located in Hamilton and Middletown, enroll over 2,700 students each. Further information about the Department and University can be found at our website: <http://www.muohio.edu>.

We seek a Chair who is eligible for tenure and appointment at the rank of Professor. We encourage applications from females, minority persons, those with disability, and others from diverse backgrounds. The successful candidate will be appointed to a 5-year renewable term that is anticipated to begin on July 1, 1998. Review of applications will commence on January 9, 1998, and continue until the position is filled. Applications consisting of a curriculum vitae, a statement of administrative philosophy and vision, and three letters of reference should be directed to:

Dr. David Francko, Chair, Zoology Chair Search Committee,
College of Arts and Science, Miami University, Oxford, OH 45056
(513) 529-4200

E-mail: franckda@muohio.edu

Miami University is an Affirmative Action/Equal Opportunity Employer.

Visions of the future

Bristol-Myers Squibb Pharmaceutical Research Institute is a recognized leader in discovering and developing novel, cost-effective pharmaceutical therapies that improve health and quality of life. We are expanding our internationally renowned team dedicated to excellence and innovation, creating opportunities for scientists to join our highly collaborative, multi-disciplinary team.

Metabolism and Pharmacokinetics

Several positions are available in both our Wallingford, Connecticut and Princeton, New Jersey research locations for candidates with a Ph.D. in biochemistry, medicinal chemistry, pharmaceutical sciences or a related discipline. Proficiency in the use of HPLC, LC/MS and other techniques used in metabolism and pharmacokinetic studies is essential.

Drug Discovery Support - Participate in an interdisciplinary team involved in the discovery of new drug molecules. Design and conduct in vitro and in vivo metabolic and pharmacokinetic studies to support the discovery process in order to optimize properties of compounds entering development. Candidates will be expected to develop innovative approaches to support drug discovery. **(Please respond to either the CT or NJ address and use code: PRMHSC117A)**

Early Biotransformation - Design and conduct in vitro and in vivo studies to determine the biotransformation of drugs during the drug discovery and early development phases. The enzymes responsible for biotransformations, as well as the effect of the drugs on CYP450 will also be determined. Correlative in vivo biotransformation analysis will be performed in selective animal species. Major metabolites will be characterized using LC/MS techniques. Experience in LC/MS and in the P450 enzyme system is essential. **(Please respond to the CT address and use code: PRMHSC117B)**

Late Biotransformation - Candidates will perform registrational studies to determine the metabolic rate of drugs in development. Responsibilities include the isolation and identification of drug metabolites from biological samples obtained from non-clinical and clinical studies. Candidates must have experience in a wide variety of separation techniques and a thorough knowledge of structural elucidation of organic molecules using modern spectroscopic methods including NMR and MS. Experience in the use of radiolabeled molecules is desirable. **(Please respond to the NJ address and use code: PRABSC117)**

Two positions are available in our New Brunswick, New Jersey facility.

Research Investigator - This is an exceptional opportunity for enthusiastic, motivated individuals with excellent computer and communication skills. Participate on various team projects involved in developing immunoassays for quantitation of biotechnology derived drug candidates in biological matrices using a wide variety of alternative analytical technologies (e.g. chemiluminescence, electrochemiluminescence, fluorescence, immunoaffinity chromatography, and Biacore). Requirements include a Ph.D. degree with at least 2 years relevant postdoctoral and/or industrial experience in biochemistry, immunology, or a related field. Experience with laboratory automation and/or cell-based bioassays is an asset. **(Please respond to the NJ address and use code: PRMSSC117A)**

Associate Research Scientist - Participate in our team-oriented environment to develop/validate enzyme immunoassays, cytotoxicity and other cell-based assays and provide analytical support for preclinical and clinical studies of drug candidates. Requirements include a B.S./M.S. in Biology or Biotechnology with 2-4 years experience and proficiency in enzyme immunoassay and tissue culture techniques. Knowledge of automation of plate-based assays and GLPs required. **(Please respond to the NJ address and use code: PRMSSC117B)**

Please forward/fax your resume in an electronically scanned format to the address indicated in each position and with appropriate code:

Bristol-Myers Squibb Pharmaceutical Research Institute Human Resources

P.O. Box 4000,
Princeton, NJ
08543-4000.
FAX: 609-581-8841.

P.O. Box 5101,
5 Research Parkway,
Wallingford, CT
06492-7661.
FAX: 203-284-7762.



Bristol-Myers Squibb

Pharmaceutical Research Institute

Equal Opportunity Employer, M/F/D/V

POSITIONS OPEN

CHAIR, GEOSCIENCES UNIVERSITY OF NEBRASKA-LINCOLN

The Department of Geosciences, University of Nebraska-Lincoln, invites applications and nominations for the position of Department Chair. The successful candidate will be responsible for promoting the growth and stature of the department, budgetary and personnel matters, developing teaching schedules, and alumni development. The chair must also guide the instructional and outreach activities of the department, and provide appropriate service to the University. The successful candidate should be a Senior Geoscientist with a record of internationally recognized, externally funded research. Evidence of effective leadership in academic administration or in funding agencies will be a positive factor. Candidates should have a research specialty that bridges departmental strengths in hydrogeology, meteorology and climatology, micropaleontology, quaternary geology and geomorphology, remote sensing and GIS, sedimentology, and vertebrate paleontology.

Screening of applications will begin on December 15, 1997, and continue until the position is filled. Potential candidates should send a letter of interest, curriculum vitae, and the names of five references. Send nominations and applications to:

Dr. Richard M. Kettler, Department Chair Search, College of Arts and Sciences, 1223 Oldfather Hall, University of Nebraska-Lincoln, Lincoln, NE 68588-0312. Telephone: 402-472-2663; FAX: 402-472-4917; e-mail: rkettler@unlinfo.unl.edu.

The University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and is responsive to the needs of dual career couples. We assure reasonable accommodation under the Americans with Disabilities Act; contact Richard Kettler for assistance.

PAIN RESEARCH FACULTY OF DENTISTRY McGILL UNIVERSITY

Applications are invited for a full-time tenure-track position in the Faculty of Dentistry with the possibility of a joint appointment in the Faculty of Medicine. The successful candidate will have a Ph.D. in a relevant discipline and substantial postdoctoral experience. S/he will have established expertise in pain research and will be expected to establish a successful research program and contribute to the development of a multidisciplinary research initiative. Responsibilities include teaching. Rank and salary will be commensurate with experience. For applicants with dental qualifications, intramural private practice facilities are available.

Applications must be received by January 10, 1998. The appointment will commence as soon as a suitable candidate is found. Please forward a curriculum vitae and the names of two referees to:

Dr. Tim Head
Faculty of Dentistry
McGill University
3640 University Street, Room M/27
Montreal H3G 1A4 Canada
FAX: 514-398-8900
E-mail: thead@is.mgh.mcgill.ca

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. McGill University is committed to equity in employment.

CALIFORNIA LUTHERAN UNIVERSITY FLETCHER JONES ENDOWED CHAIR IN BIOLOGY

California Lutheran University invites applications for the newly established Fletcher Jones Chair in Biology endowed by the Fletcher Jones Foundation and to begin in the fall of 1998. The University seeks applicants in the field of developmental biology with strengths in genetics, biochemistry, molecular biology, or cell biology. The appointment will be made at the ASSOCIATE or FULL PROFESSOR level. Demonstrated excellence in undergraduate teaching and in research is required. Responsibilities include teaching one course with laboratory each semester, directing the Senior Research program, and sustaining a personal program of research involving undergraduates. Send letter of application, curriculum vitae, and names of references to: Dr. Pamela Jolicœur, Provost, California Lutheran University, 60 West Olsen Road, Thousand Oaks, CA 91360. Review of applicants will begin on December 1 and continue until the position is filled. Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR PHYSIOLOGY

The Department of Physiology at the University of Maryland School of Medicine is seeking a tenure-track Assistant Professor with research interests in molecular and cellular physiology. Individuals employing molecular techniques to investigate mechanisms of signal transduction are particularly encouraged to apply. Ph.D. or M.D., at least two years of postdoctoral experience, and the ability to develop an independent research program required. Research interests should complement one or more existing departmental strengths in cardiovascular, neural, renal, and reproductive physiology (see our website: <http://physiomed.ab.umd.edu>).

The position offers competitive start-up funds, laboratory space, salary, and benefits. Send curriculum statement of research interests, and names of three referees to: R. J. Bloch, Ph.D., Physiology Search Committee, Department of Physiology, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201. Submit by January 5, 1998, for full consideration; position available July, 1998. The University of Maryland, Baltimore is an Affirmative Action/Equal Opportunity Employer and has a strong institutional commitment to the principle of diversity in all areas.

CHAIR DEPARTMENT OF BIOCHEMISTRY

Case Western Reserve University School of Medicine is seeking an outstanding scientist and leader to head the Department of Biochemistry. This is an exceptional opportunity to lead a prominent Department with a record of excellence in teaching and research in an unusually collaborative and open academic environment. The candidate is expected to hold a Ph.D. and/or M.D. degree, should qualify for appointment at the rank of Professor, and should have demonstrated administrative and leadership ability, with a strong record of accomplishment in research and training in areas relevant to modern biochemistry. The successful candidate will provide leadership in defining the future direction of the Department and in maintaining the excellence of its research and teaching missions. For information on the Department, see website: <http://www.cwru.edu/med/biochemistry/home.html>.

Interested candidates should send a curriculum vitae to: Search Committee for Biochemistry Chair, c/o Huntington F. Willard, Ph.D., BRB 731, Case Western Reserve University School of Medicine, Cleveland, OH 44106-4955. E-mail: hfw@po.cwru.edu.

Case Western Reserve University is an Affirmative Action/Equal Opportunity Employer. Qualified women and minority group members are encouraged to apply.

TENURE-TRACK FACULTY POSITION ENVIRONMENTAL SCIENCE/ECOLOGY GORDON COLLEGE

The Department of Biology seeks candidates for a tenure-track position in biology, at the ASSISTANT or ASSOCIATE PROFESSOR level, to begin August 1998.

We are seeking an educator committed to excellence in the integration of Christian faith and the highest standards of teaching in a nondenominational Christian liberal arts college. Preference will be given to candidates with teaching/professional experience and a Ph.D. Primary teaching responsibilities will be environmental science and ecology, with opportunities in other electives such as animal physiology or microbiology. Participation in the core curriculum and involvement with students in research projects are expected.

Curriculum vitae and a two-page statement of philosophy of education should be directed to: Dr. Mark Sargent, Provost, Gordon College, 255 Grapevine Road, Wenham, MA 01984. Review of applications will begin December 1, 1997, and will continue until the position is filled.

Gordon College is an Affirmative Action/Equal Opportunity Employer and seeks women and minority applicants.

POSITIONS OPEN

FACULTY POSITIONS STRUCTURAL BIOLOGY AND PROTEIN STRUCTURE/FUNCTION

The Biochemistry Department of North Carolina State University invites applications for two TENURE-TRACK POSITIONS. One position is in structural biology and can be filled at any rank. The second position is in protein structure/function and will be recruited at the Assistant Professor level. Individuals with strong research programs in other areas of biochemistry may also be considered. The new positions will complement existing areas of excellence in nucleic acid structure/function, NMR, molecular virology, and plant molecular biology. The Department is in the College of Agriculture and Life Sciences, is affiliated with the College of Physical and Mathematical Sciences, and has interactions with many scientists in the Research Triangle area. Both positions have competitive start-up packages. Qualified applicants should provide a curriculum vitae, a research statement, and a description of teaching interests. Applicants at the junior level should request three reference letters be sent directly. Senior applicants should provide names of three references. The review process will begin December 1, 1997, and continue until the positions are filled. Application material should be sent to:

Chair, Faculty Search Committee
Department of Biochemistry
Box 7622, 128 Polk Hall
North Carolina State University
Raleigh, NC 27695-7622

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, veteran status, or disability.

FACULTY POSITION in animal transgenics/molecular biology. Department of Dairy and Animal Science, Penn State is expanding its educational and research emphases in the biological sciences via the Life Sciences Consortium. As part of this effort applications are invited for this tenure-track position. We seek a **MOLECULAR BIOLOGIST** with demonstrated expertise in animal transgenic research to join an expanding group of faculty studying the biology of growth, lactation, and reproduction of domestic animals. The position will carry an initial appointment of 70 percent research, 30 percent residence education. A Ph.D. in biological sciences is required. Rank will be commensurate with training and experience. The individual filling this position will be expected to develop and maintain a strong, externally funded collaborative research program in molecular biology and animal transgenesis. Excellent research facilities and a very competitive start-up package are available. Send curriculum vitae, a brief statement of research interests (two pages or less), and the names, addresses (surface and e-mail), and telephone numbers of three to five professional references to: Dr. Terry D. Etherton, Chair, Search Committee, Department of Dairy and Animal Science, Department B, The Pennsylvania State University, 324 William L. Henning Building, University Park, PA 16802. Telephone: 814-863-0658; FAX: 814-865-7442; e-mail: tetherton@das.cas.psu.edu. Review commences December 15, 1997, and will continue until position is filled. Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION FRED HUTCHINSON CANCER RESEARCH CENTER

We are seeking to fill one ASSISTANT, ASSOCIATE, or FULL MEMBER position in the area of cancer genetics. The successful candidate is expected to develop an independent research program that exploits recent advances in the human genome project. We seek a candidate with interests in genome technology and in collaborating with population-based studies on the genetic basis of cancer. The position will be within the Division of Public Health Sciences, and will be part of a cross-disciplinary Genetics Program at the Fred Hutchinson Cancer Research Center with the opportunity for an affiliate appointment at the University of Washington. Candidates should send a curriculum vitae and a concise statement of their research plans, and have three letters of reference sent to:

Cancer Genetics Search Committee
Fred Hutchinson Cancer Research Center
1100 Fairview Avenue North, Mailstop: A2M-015
P.O. Box 19024
Seattle, WA 98109-1024

Application deadline: January 30, 1998.

Fred Hutchinson Cancer Research Center is an Equal Opportunity Employer committed to work force diversity.

ASSOCIATE DIRECTOR FOR AIDS RESEARCH NATIONAL INSTITUTES OF HEALTH

The NIH invites applications for the position of Associate Director for AIDS Research, NIH, a Civil Service position in the Senior Executive Service (SES), salary range currently \$103,897 - \$123,100. A recruitment bonus up to 25% of base pay may be available to non-Federal selectee. A relocation bonus up to 25% of base pay may be available to Federal selectee. Physicians may be eligible for a Physicians Comparability Allowance up to \$20,000.

The Associate Director for AIDS Research also serves as Director, Office of AIDS Research, NIH and is responsible for (1) providing leadership and consultation to NIH management and the scientific community in defining, coordinating and evaluating AIDS research activities at NIH; (2) developing a comprehensive strategic plan establishing objectives, priorities and policy governing the conduct and support of all NIH AIDS-related research activities; (3) developing consolidated budget estimates for presentation directly to the President; (4) receiving and allocating all appropriated funds; and (5) overseeing the AIDS Advisory Council and coordinating committees involved in AIDS activities. The Associate Director shall act as the primary Federal official with responsibility for overseeing all AIDS research conducted or supported by the NIH.

Applicants must possess an M.D., Ph.D. or equivalent in medical or related health sciences plus senior level medical/health research experience that demonstrates the following **mandatory qualifications**: (1) high degree of scientific prominence and expertise, and distinguished record of accomplishments, in clinical or laboratory medical/health research, such that the individual can readily command the attention of the national and international research communities and stimulate their interest in the NIH AIDS research agenda; and (2) ability to direct and manage a medical/health research organization including establishing strategic plans and policies, developing and presenting budgets, evaluating program accomplishments and building and maintaining a diverse staff.

Submit CV or resume, bibliography and *detailed statement addressing mandatory qualifications*. Vacancy announcement should be obtained by calling 301-402-4111 (#OD-97-2012 opens November 3, 1997, closes December 19, 1997) or TDY 301-402-1970. Mail applications to **NATIONAL INSTITUTES OF HEALTH, OFFICE OF THE DIRECTOR EXECUTIVE OFFICE, ATTN: SUSAN ELDER, BLDG 31/ROOM 1C17, 31 CENTER DR MSC 2264, BETHESDA MD 20892-2264**

- Applicants with access to Internet's World Wide Web may browse the NIH Home Page to view announcement and may apply through Web at URL <http://helix.nih.gov:8001/jobs/>
- Applicants may E-Mail materials to Susan_Elder@nih.gov

APPLICATIONS MUST BE POSTMARKED OR TRANSMISSIONS RECEIVED NO LATER THAN DECEMBER 19, 1997.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER



BIOMEDICAL SCIENCES SCHOLAR PROGRAM UNIVERSITY OF MICHIGAN

The University of Michigan Medical School announces the establishment of a Biomedical Sciences Scholars Program to enhance investigational strength in the following targeted areas of research: Cell Biology, Structural Biology, Molecular Genetics, Neurosciences, and Immunology.

Individuals recruited will have the following qualifications: Ph.D., M.D., or M.D./Ph.D. degrees; a minimum of two years of postdoctoral experience; and evidence of superlative scientific accomplishment and scholarly promise. Successful candidates will be expected to establish and maintain personal and collaborative research programs; to bring or develop substantial external research funding; and to become leaders in departmental and program activities, including teaching at the medical, graduate, and/or undergraduate levels. Primary department affiliation and rank will be determined by the applicant's qualifications. Although preference will be given to consideration of appointments at the Assistant or Associate Professor levels, candidates whose appointments would be at more senior levels also will be considered.

Applicants should send their current curriculum vitae (including bibliography), three letters of support, and a two to four-page summary of their current research program and future research plans to:

Jack E. Dixon, Ph.D. c/o Nili Tannenbaum
University of Michigan Medical School
Office of Research and Graduate Studies
M7300 Medical Science Building I
Ann Arbor, MI 48109-0624

The University of Michigan Medical School is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION IN BIOENGINEERING AT RICE UNIVERSITY

The Department of Bioengineering at Rice University invites applications for a tenure-track faculty position in computational bioengineering. Applicants should have a strong multidisciplinary background in computational bioengineering and substantial experience in independent research and competitive funding. We are particularly interested in researchers with exceptionally strong research expertise 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 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 area of biomedical engineering at the undergraduate and graduate levels. Applicants should send a curriculum vitae, which includes a list of publications, a statement describing a research program in computational bioengineering, and names of at least three references to:

Professor Larry V. McIntire
Chair
Department of Bioengineering
Rice University
P.O. Box 1892 MS 142
Houston, TX 77257-1892

For full consideration, applications should be received by January 1, 1998. Rice University is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are encouraged to apply.

FACULTY POSITION IN MOLECULAR CELL BIOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY Center for Cancer Research and Department of Biology

Applicants are sought for an appointment in the area of eukaryotic cell biology. Applicants should have demonstrated productivity in research in the broad area of cell biology. Areas of emphasis could include, but are not limited to: regulation of cell proliferation and survival, stem cell biology, chromosomal structure and organization, cell adhesion and migration, intracellular communication and signal transduction, invasion metastasis or angiogenesis.

The appointment will require supervision of an active research program as well as undergraduate and/or graduate teaching.

Applications should include a curriculum vitae, brief summaries of past accomplishments, and future research plans. Letters of recommendation should be sent separately from three scientists who can provide an evaluation of the candidate's accomplishments and future potential for both research and teaching.

Applications and letters should be sent to:

Molecular Cell Biology Committee
E17-110, Center for Cancer Research
Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, MA 02139

MIT is an Equal Opportunity/Affirmative Action Employer.

FACULTY OR RESEARCH ASSOCIATE POSITION UNIVERSITY OF UTAH HEALTH SCIENCES CENTER Department of Medical Informatics Genetic Epidemiology Group

A Faculty or Research Associate position is available for a Ph.D. with a background in statistical genetics. Candidate must be interested in genetic analysis of common diseases and will work in a team effort to model and map these loci. Our current studies involve localizing genes which predispose to breast cancer, colon cancer, prostate cancer, asthma, osteoporosis, depression, heart disease, and obesity.

Send curriculum vitae and three letters of reference to:

Lisa Cannon-Albright, Ph.D.
Genetic Epidemiology
391 Chipeta Way, Suite D2
Salt Lake City, UT 84108

E-mail questions: lisa@cpisun6.med.utah.edu

The University of Utah is an Equal Employment Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

POSITIONS OPEN

Colorado State University

ASSISTANT PROFESSOR, DEPARTMENT OF BIOLOGY MECHANISMS OF EVOLUTION IN ANIMAL POPULATIONS

A tenure-track position is available in the Biology Department in mechanisms of evolution in natural populations of animals. We especially invite applications from biologists using quantitative genetics and/or molecular approaches. A Ph.D. in zoology or related area is required, postdoctoral experience preferred. The successful candidate is expected to develop a strong research program and to participate in undergraduate and graduate education.

To apply, send a letter stating teaching and research interests, a curriculum vitae, letters from at least three references (sent separately), and three publications to: Evolution Search Committee, Department of Biology, Colorado State University, Fort Collins, CO 80523 by 10 December 1997.

Colorado State University is an Affirmative Action/Equal Opportunity Employer. Office of Equal Opportunity, 101 Student Services.

FACULTY POSITIONS IN THE NEW DEPARTMENT OF HUMAN GENETICS AT UCLA

The School of Medicine of the University of California, Los Angeles, is establishing a Department of Human Genetics, chaired by Dr. Leena Peltonen. The Department will be housed in the Gonda (Goldschmied) Neuroscience and Genetics Center, to be opened in the summer of 1998. Its focus will be on discovery of genes underlying human disease (including but not limited to neurologic and psychiatric disorders), and on elucidation of the function of these genes. The new faculty will be expected to develop strong independent research programs and to participate in graduate and medical education.

We plan to fill several positions at the tenure-track ASSISTANT PROFESSOR level, but will also consider a more SENIOR appointment. We seek outstanding individuals with interests in the genetics of disease and with experience in genomics, computational genetics, phenotype analysis in model organisms, *in vitro* expression systems, or other state-of-the-art areas of human genetics research.

Applicants should send a curriculum vitae, summary of research interests, and arrange for three letters of reference to be sent to: Chair, Human Genetics Search Committee, Department of Biological Chemistry, UCLA School of Medicine, 33-257 CHS, P.O. Box 951737, Los Angeles, CA 90095-1737 by January 15, 1998.

The University of California is an Equal Opportunity Employer.

FACULTY POSITION IN DRUG TRANSPORT/DELIVERY College of Pharmacy and Allied Health Professions Wayne State University

The Department of Pharmaceutical Sciences is seeking candidates for a TENURE-TRACK position available immediately, at rank and salary commensurate with experience. The position focuses on molecular and biochemical aspects of drug delivery mechanisms, including transport/carrier proteins and gene therapy utilizing altered genes, viruses, or living cells. Candidates will be expected to establish an independent, extramurally funded research program and to teach at the graduate and professional levels. Applicants should possess a Ph.D. degree in pharmaceutical sciences or related discipline and postdoctoral experience. The search will remain open until a qualified candidate is identified. Mail curriculum vitae and the names and complete contact information for three references to:

George B. Corcoran, Ph.D., Chair
Department of Pharmaceutical Sciences
College of Pharmacy and Allied Health Professions
Wayne State University
Detroit, MI 48202-3489

Wayne State University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University—People working together to provide quality service.

POSITIONS OPEN

NICHOLAS CHAIR ENVIRONMENTAL TOXICOLOGY

The Nicholas School of the Environment (NSOE) seeks applicants for a distinguished Chair at the level of Full Professor in environmental toxicology. Applicants are expected to be internationally recognized experts. Preference is for candidates that have demonstrated expertise in the elucidation of the fate and effects of environmental contaminants in ecosystems, and who have an appreciation for human health effects of these contaminants. The successful candidate is expected to maintain an externally funded research program, to teach and advise graduate-level research and professional students, and to provide leadership for Duke's Integrated Toxicology Program (ITP). The ITP is a multidisciplinary, university-wide academic consortium with participants from NSOE, Duke University Medical Center, and Duke University Trinity College of Arts and Sciences. It includes an NIEHS-funded program for doctoral and postdoctoral trainees.

Applicants should send a curriculum vitae, a statement of research and teaching interests, a statement of administrative philosophy, and names and addresses of three references by January 15, 1998. All application materials and requests for further information should be directed to: Dr. Richard T. Di Giulio, Chair, Environmental Toxicology Search Committee, Nicholas School of the Environment, Box 90328, Duke University, Durham, NC 27708-0328 USA. Duke University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION ANATOMY AND CELL BIOLOGY UNIVERSITY OF NORTH DAKOTA School of Medicine and Health Sciences

Applications are invited for a tenure-track faculty position at the ASSISTANT/ASSOCIATE PROFESSOR level to begin July 1, 1998. The position requires teaching expertise in human gross anatomy, and individuals with experience in an integrated patient-centered medical curriculum will be given high consideration. The successful candidate will also contribute to graduate-level courses in the department. Candidates must have a Ph.D., M.D., or equivalent and at least two (2) years of postdoctoral training. Research areas are unrestricted but candidates with expertise in cell, molecular, or developmental biology will be preferred and the successful applicant will be expected to carry on a vigorous extramurally funded research program. Review of applications will begin on December 15, 1997, and will continue until the position is filled. Candidates should send a curriculum vitae, a description of teaching and research experience, and names of three references to: Dr. Edward C. Carlson, Search Committee Chair, Department of Anatomy and Cell Biology, Box 9037, University of North Dakota School of Medicine and Health Sciences, Grand Forks, ND 58202. The University of North Dakota is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

ANALYTICAL CHEMISTRY/BIOCHEMISTRY INDIANA UNIVERSITY, BLOOMINGTON

The Department of Chemistry invites applications for tenure-track positions in analytical chemistry, biochemistry, or biophysical chemistry, to commence in fall of 1998. Candidates with significant postdoctoral experience and a strong record of research accomplishment in any area of analytical chemistry, biochemistry, or biophysical chemistry, will be considered. Successful candidates will be expected to develop a vigorous, independent research program and contribute to teaching and curricular development. While we anticipate filling this position at the level of ASSISTANT PROFESSOR, outstanding candidates with established research programs also will be considered.

Applications should include a curriculum vitae and a summary of future research plans. Candidates at the Assistant Professor level should arrange to have four letters of recommendation forwarded to the Department. Applications received by November 28, 1997, will be assured of consideration. Send applications to: Professor Gary M. Hieftje, Chairman, Department of Chemistry, Indiana University, Bloomington, IN 47405. FAX: 812-856-5050; e-mail: chemchair@indiana.edu. Indiana University is an Affirmative Action/Equal Employment Opportunity Employer and especially encourages applications from women and members of minority groups.

BS/MS Molecular Biologist

Pfizer scientists are involved in some of the most critical research in the world today. As a Fortune 100 company, we have established a product pipeline that is unparalleled, and an intellectual, collaborative environment that inspires scientific achievement. Join us and become a part of the cure.

In addition to a fast-paced, yet collegial environment, we offer very competitive salaries and excellent benefits including relocation assistance. For confidential consideration, please forward resume to: **Employee Resources, Pfizer Inc, Job Code #2290, Central Research Division, Eastern Point Road, Groton, CT 06340. For more information about Pfizer, see us on the Internet at: <http://www.pfizer.com>.** We are an equal opportunity employer M/F/D/V.

An opportunity exists to join a team studying the secondary metabolism in *Streptomyces* sp. You will be using molecular biological techniques. You will design, execute and interpret laboratory experiments to study biosynthetic pathways in *Streptomyces* sp. You must have microbiological skills and detailed knowledge and work experience with recombinant DNA techniques, including isolation, cloning, sequencing and analysis, as well as construction and characterization. Knowledge of sterile techniques and the ability to grow, manipulate and prepare microorganisms for long-term storage also required. Excellent communication skills and computer literacy a must.



We're part of the cure.

DEAN OF THE COLLEGE of AGRICULTURE, FOOD, AND NATURAL RESOURCES UNIVERSITY of MISSOURI-COLUMBIA (MU)

The University seeks a dynamic and innovative individual to provide leadership for the College. The Dean also has the titles of Director of the Missouri Agricultural Experiment Station, Director of the Food for the Twenty-First Century Program, and has responsibility for the extension budget and programs within the College. The Committee seeks candidates who have a strong commitment to land-grant responsibilities in teaching, research, extension, and international programs with a breadth of experience in administration and the proven ability to lead, motivate, and delegate authority.

REQUIRED QUALIFICATIONS: Experience in, and a commitment to, the Land Grant philosophy; record of successful experience with academic partnerships and collaborative efforts involving stake holders, faculty, students, and staff; ability to communicate effectively with publics, partners, and constituents; successful fundraising and management experience of human and financial resources; possess a Ph.D. in an agriculture-related area; and have a record of accomplishment in research, teaching, and/or extension service appropriate to an academic appointment as a full professor in one of the College's departments. Salary will be competitive and commensurate with experience and qualifications.

Review will begin December 1, 1997, and continue until the position is filled. Nominations are invited. Applications should include:

1. A cover letter that identifies personal and professional strengths;
2. a two-page statement of the applicant's administrative philosophy as it applies to the challenges and opportunities of this position;
3. a detailed curriculum vitae; and the name, address, fax and telephone number(s) of five references.

Website information: <http://www.missouri.edu/~agwww/dean.html>

CONTACT: Donald W. Fancher, 108 Whitten, Columbia, MO 65211

The University is an Equal Opportunity/Affirmative Action/ADA Institution.

The Science of Agricultural Genetics

RESEARCH ASSOCIATE (Job #AB-809) Analytical Biochemistry — Chromatography

Pioneer Hi-Bred International, Inc. is seeking a full-time Research Associate in the Analytical Biochemistry Department. Primary duties are conducting analytical tests to assess quality traits in grain. The successful candidate will also be responsible for conducting research, interpreting data, and operating and maintaining analytical instrumentation, including HPLC, GC, LC/MS, and GC/MS. B.S. in chemistry, biochemistry, or a related field is required. 1-3 years hands-on experience with HPLC is highly desired. Knowledge of computers, especially Microsoft software is preferred. Accurate record keeping and strong communication and interpersonal skills are essential. Application received by December 5, 1997, will be assured of consideration; however, applications will be considered until the position is filled.

RESEARCH ASSOCIATE (Job #AB-810) Analytical Biochemistry — mRNA Expression Profiling

An individual is needed to assume a key role in a Pioneer-wide effort to profile mRNA expression patterns in maize. Initial efforts will focus on the use of high-density gene arrays to monitor and evaluate mRNA levels. Primary duties will involve i) implementing and optimizing methodologies to isolate poly(A)+ RNA from a large number of samples and ii) interrogating the RNA for the presence of specific RNA molecules using high density gene arrays. Other duties will include organizing and managing RNA samples, performing quality control experiments, trouble shooting procedures, and managing transcript profile data using proprietary software. The position requires a M.S. or equivalent in molecular biology, biochemistry or related field with at least 2 years experience with total and poly(A)+ preparation from plant material. Competency with PCR and RT-PCR is expected. Experience with computer and statistical analysis are requisite. The successful candidate will possess the ability to work with limited supervision. Strong interpersonal, organizational and communication skills are imperative. Applications received by December 5, 1997, will be assured consideration; however, applications will be considered until the position is filled.

SENIOR RESEARCH ASSOCIATE (Job #QT 803) Promoter Isolation And Testing

We are seeking a motivated individual with a strong interest in promoter isolation and evaluation who has a demonstrated ability to complete projects in a timely manner. The applicant must have at least four years of relevant research experience and must have direct experience with molecular tools such as promoter/gene isolation, cloning, analysis of gene function, vector construction. In addition, a working knowledge of plant transformation, particularly in corn, would be an asset. This staff position is an integral part of the Agronomic Traits research program to produce intellectual property and proprietary products in targeted species and regions worldwide. Strong interpersonal skills will be required to develop collaborations both within Pioneer Hi-Bred's extensive research program and external public and private organizations. In addition, the applicant should have experience in using computers in some of the following areas: genomics, vector analysis software, and/or data base use and development. MS degree or equivalent experience in molecular biology or a related field is prerequisite. This position is available immediately. Application deadline: November 20, 1997

Pioneer offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your resume and cover letter indicating job number to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #xxx-xxx), P.O. Box 1004, Johnston, IA 50131-1004.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$115 million in research and product development. Pioneer® brand products are grown in almost every crop-producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



PIONEER HI-BRED INTERNATIONAL, INC.
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POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR

The College of Natural Sciences at the University of Northern Iowa invites applications for a tenure-track Assistant/Associate Professor effective August, 1998. The successful candidate will specialize in the application of biology to the identification of and/or solving issues of environmental concern. He/she will mentor graduate students and teach in the interdisciplinary M.S. degree program in environmental science/technology and will also be expected to be a productive member of the biology department in which the tenure-track appointment will be assigned. While the area of specialty is open, candidates with a strong research record and a history of funding in the development and use of biomarkers, environmental change and human disease, industrial ecology, or sustainable agriculture are preferred.

A Ph.D. in the biological sciences is required. Postdoctoral research experience, interinstitutional collaboration, and evidence of excellent potential for teaching and mentoring are desired. Applications must be received by January 15, 1998, to be given full consideration. Please submit a curriculum vitae; transcripts; a statement of interests and goals in mentoring, classroom teaching, and research; and have three letters of reference sent to:

Chair of the Environmental Biology
Search Committee
Environmental Programs, MSH 2236
University of Northern Iowa
Cedar Falls, IA 50614-0421

The University of Northern Iowa is an inclusive academic community, hospitable to all. It is an Equal Opportunity Educator and Employer with a comprehensive plan for Affirmative Action.

AQUATIC BIOLOGIST

The Department of Biological Sciences at DePaul University seeks an Aquatic Biologist with strong commitment to undergraduate education for a tenure-track position at the ASSISTANT PROFESSOR level beginning September 1, 1998. Ph.D. is required; postdoctoral and previous teaching experience preferred. Teaching responsibilities include: introductory biology courses with lab for majors and non-majors; intermediate-level undergraduate course in aquatic biology; and graduate/advanced undergraduate course(s) in candidate's area of expertise. Ability to teach ecology and/or evolution is desirable. An active and productive research program in aquatic biology is required. All subdisciplines and approaches will be considered, including ecology, population biology, evolution, and systematics, using plant, animal, protist, or algal model systems. Use of molecular or cellular techniques in research program desirable. Applications will be accepted until position is filled; review will begin January 1, 1998. Please send curriculum vitae, three letters of reference, statement of teaching and research interests, statement of educational philosophy, and list of equipment/supply needs with cost estimates to: Aquatic Biology Search Committee, Department of Biological Sciences, DePaul University, 1036 West Belden Avenue, Chicago, IL 60614. Additional inquiries to above address, or FAX: 773-325-7596; e-mail: lmaginni@condor.depaul.edu. DePaul University, the employer of choice, is committed to diversity and equality in education and employment.

FACULTY POSITION VASCULAR PLANT SYSTEMATIST

The University of Tennessee, Knoxville, seeks a Vascular Plant Systematist for a tenure-track ASSISTANT PROFESSOR appointment to begin August 1, 1998. A Ph.D. is required and postdoctoral experience is preferred. A commitment to excellence in research and teaching is essential. Applicants should combine field-oriented, whole-plant floristics or taxonomy with the informed application of state-of-the-art technology. Graduate supervision and external research support are expected. Teaching duties will include participation in introductory courses and development of appropriate advanced courses. Applicants should submit a complete curriculum vitae (no more than five reprints), a brief summary of research interests (no more than two pages), and three letters of recommendation to: Dr. Ronald H. Petersen, Department of Botany, University of Tennessee, Knoxville, TN 37996-1100. Screening of applications will begin December 31, 1997. For additional information on the department, see website: <http://fp.bio.utk.edu/botany/>. University of Tennessee, Knoxville is an Equal Employment Opportunity/Affirmative Action Title VI/Title IX/Section 504/ADA/ADEA Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS Texas A&M University

The Department of Biochemistry and Biophysics at Texas A&M University seeks applications for one tenure-track Assistant Professor. Applicants for this 12-month appointment should have demonstrated productivity and evidence of potential for establishing an independent research program focused on the structure and function of biological macromolecules and/or regulation of biological processes at the molecular level. In addition to research activities, participation in the Department's undergraduate and graduate teaching programs will be expected. A Ph.D. in biochemistry or a related field plus appropriate postdoctoral experience is required.

The Department of Biochemistry and Biophysics has more than 40 full-time faculty, 80 graduate students, and 500 undergraduate majors. The Department is housed in a new, spacious, and well-equipped research facility. The research interests of the faculty cover nearly all areas of modern biochemistry and molecular biology.

Completed applications should include: a curriculum vitae, a short description of research interests, reprints of significant publications, and three letters of recommendation. All materials should be sent to: Dr. David P. Giedroc, Faculty Search Committee Chair, Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX 77843-2128. Review of applications will begin December 1, 1997. Texas A&M University is an Affirmative Action/Equal Opportunity Employer.

MARINE INVERTEBRATE ZOOLOGIST MOSS LANDING MARINE LABORATORIES (#SCI 98-044)

A tenure-track position at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level for a field-oriented scientist with broad interests in marine invertebrate zoology and secondary interests in population ecology, toxicology, or molecular systematics. The successful applicant will have a strong commitment to quality undergraduate and graduate instruction and will pursue a vigorous research program involving graduate students. A Ph.D. is required. Instructional responsibilities will include invertebrate zoology, marine ecology (team-taught), and courses in the applicant's area of expertise. Position appointment effective beginning fall 1998 semester.

The salary range for the position is: Assistant \$36,000 to \$45,756; Associate \$41,676 to \$57,840; Professor \$52,668 to \$63,540.

Review of applications will begin November 30, 1997. Submit applications consisting of a letter stating teaching and research interests, goals and accomplishments, a curriculum vitae, and the names of three references to: Dr. H. Gary Greene, Director, Moss Landing Marine Laboratories, P.O. Box 450, Moss Landing, CA 95039.

For more information, visit Moss Landing Marine Laboratories' website: <http://color.mlml.calstate.edu/www/>.

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PROFESSOR OF MEDICINE DANA FARBER CANCER INSTITUTE HARVARD MEDICAL SCHOOL

The Department of Adult Oncology of the Dana Farber Cancer Institute and Department of Medicine, Harvard Medical School, are inviting applications for a tenured position at the level of Professor. Candidates with an M.D. or M.D.-Ph.D. degrees with interests in leukemia or lymphoma at a developmental, molecular, genetic, pharmacologic, or translational research level will be considered. The position offers outstanding facilities, affiliation with a large clinical and research program in leukemia and lymphoma therapy, and a supportive research infrastructure. Laboratory space and start-up funds commensurate with rank are available. Applicants should have significant accomplishments in the field of hematologic malignancies, and be able to assume a leadership position in research and teaching in this field.

Applicants should submit their curriculum vitae, a letter of interest, and the names of three references to: James D. Griffin, M.D., Vice Chair for Research, Department of Adult Oncology, Dana Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. The Dana Farber Cancer Institute is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOPHARMACEUTICAL SCIENCES AND PHARMACEUTICAL CHEMISTRY (TENURE-TRACK) Department of Biopharmaceutical Sciences University of California, San Francisco

The Department of Biopharmaceutical Sciences invites applications for an Assistant Professor position in the field of gene delivery. Applicants should have a Ph.D. or M.D. degree with research experience in and a planned research focus on using gene delivery approaches to solve research problems in mammalian disease. Possible areas of interest include novel approaches to vaccination, genetic manipulation of the immune response, and gene therapy for metabolic or cellular diseases. Applicants are expected to have an interest in gene delivery methods as well as the specific diseases under study.

Teaching responsibilities will be in the professional curriculum in the School of Pharmacy and in graduate (Ph.D. program) and elective courses in topics related to gene delivery and therapy.

Send a curriculum vitae, three letters of reference, a summary of current research, and a concise outline of future research by December 1, 1997, to:

Frances M. Brodsky, D.Phil.
Department of Biopharmaceutical Sciences
School of Pharmacy, Box 0446
University of California
San Francisco, CA 94143-0446

UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY University of Connecticut

PHYCOLOGIST. The Department of Ecology and Evolutionary Biology at the University of Connecticut anticipates an Assistant Professorship in phycology to start in the fall of 1998. Candidates must have expertise in phycology and an established, innovative research program focusing on algal diversity and evolution. Areas of interest include algal systematics, the origin of land plants, evolution of reproductive systems and life history traits, the role of algal protists in the evolution of eukaryotic cells, and the evolution of clonality and multicellularity. A Ph.D. (or equivalent) in biological sciences or a related field is required. Initiation of a productive, externally funded research program is expected. Teaching responsibilities will be at the undergraduate and graduate levels, including introductory biology and phycology. Applicants should send a curriculum vitae, statement of research and teaching interests, reprints of published papers, and at least three letters of reference to: Donald H. Les, Chair, Phycologist Search Committee, Department of Ecology and Evolutionary Biology, Box U-403, University of Connecticut, Storrs, CT 06269-3043. Applications received by January 16, 1998, are assured of consideration. The University of Connecticut encourages applications from underrepresented groups including minorities, women, and people with disability. (Search #98A100)

POLYMER SCIENCE AND ENGINEERING UNIVERSITY OF MASSACHUSETTS AMHERST

The University of Massachusetts at Amherst invites applications for two faculty positions in the Department of Polymer Science and Engineering. We anticipate that one appointment will be made at the ASSISTANT PROFESSOR level and the other at a tenured ASSOCIATE or FULL PROFESSOR level. Both appointments will begin as early as September 1998. Applicants in all areas of polymer science and engineering will be considered; candidates with interest and experience in materials synthesis or polymer physical chemistry are especially encouraged to apply. Applicants should send a curriculum vitae, three letters of recommendation, and statements of research and teaching interests to: Chair, Faculty Search Committee, Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA 01003. Interviews will commence by December 1. General information on the University of Massachusetts may be obtained from website: <http://www.umass.edu>; general information on the Polymer Science and Engineering Department may be obtained from website: <http://www.pse.umass.edu>. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

PROFESSOR and DIRECTOR of VASCULAR BIOLOGY

In association with an expansion in biomedical research and graduate research training in selected interdisciplinary thematic areas of research, Albany Medical College announces the availability of a senior, tenured position as Professor and Director of the Interdisciplinary Research Group in Vascular Biology. Scientists with a Ph.D., M.D., or M.D./Ph.D. currently at the Associate Professor or Professor level are invited to apply. Applicants must have a track record of research excellence, current grant funding, and experience in mentoring graduate students or postdoctoral fellows. Ideal candidates should have expertise in either cardiovascular physiology, cardiovascular pharmacology, or vascular wall pathology. Departmental appointment can be in a basic science or clinical department. Successful candidates will have limited teaching and/or clinical responsibilities primarily defined by their own personal interests and training.

Expansion of the College's research and scientific training programs coincides with funding of the Medical Center's new Institutional Strategic Research Plan designed to expand the size of the research faculty; develop core research support facilities; and increase basic and clinical research programs in all departments. Other thematic areas of research growth include Pathogenesis & Cancer; Neuropharmacology & Neurobiology; as well as Cell & Molecular Biology. Theme areas of research will serve as the foundation for interdisciplinary predoctoral and postdoctoral training programs. Interactions of the Vascular Biology Research Group with a Clinical Center of Excellence in Heart and Vascular Diseases is projected.

The research interests of the current interdisciplinary Vascular Biology Research Group include endothelial permeability, hypertension, angiogenesis, vascular reactivity, coronary artery disease, ischemia-reperfusion injury, platelet adhesion, nitric oxide, pulmonary edema, and interstitial lung disease. The Director will have an opportunity to recruit additional tenure-track faculty to the Vascular Biology group.

Applicants should submit curriculum vitae to: **Thomas M. Saba, Ph.D., Senior Vice President for Research, Professor & Chair, Department of Physiology & Cell Biology, Box A-1, Albany Medical College, Albany, NY 12208.** Selection process will be completed by the end of 1997. *An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

USDA National Needs Graduate Fellowships in Plant Genome Studies Interdepartmental Genetics Iowa State University

The Plant Genome Studies & Biotechnology (PGSB) group of Interdepartmental Genetics (IG) has been awarded a training grant from the USDA National Needs Graduate Fellowship Program. Competitive fellowships (\$17k/year) are available for pre-doctoral students with research interests in genomics and/or functional and post-genomic analyses.

The PGSB Group is composed of 19 IG faculty from the Departments of Agronomy, Biochemistry & Biophysics, Botany, Forestry, Plant Pathology, and Zoology & Genetics. The PGSB faculty share a research interest in the molecular characterization of plant (and plant pathogen) genomes. The participating faculty are: **P. Becraft, C. Bronson, C. Brummer, P. Chitnis, R. Hall, M. Lee, A. Miller, A. Myers, B. Nikolau, T. Peterson, S. Rodermel, P. Schnable, P. Scott, R. Shoemaker, D. Voytas, R. Wallace, J. Wendel, R. Wise, and E. Wurtele.**

Application materials may be obtained from: **Dr. Patrick S. Schnable, Chair, PGSB Search Committee, IG Office, 2102 Molecular Biology Building, Iowa State University, Ames, IA 50011-3260. FAX: 515-294-6669, e-mail: pgsb@iastate.edu.** Review of applications will begin immediately and will continue until the fellowships are awarded. Further information can be obtained from IG's WWW homepage at: http://molebio.iastate.edu/~l_wild/pgsb.html. *Although National Needs Fellows must be U.S. citizens or nationals, IG also awards research assistantships on a competitive basis.*

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PH.D. NEUROANATOMY/ MOLECULAR NEUROPHARMACOLOGY

An opportunity is available for a senior scientist with expertise in neuroanatomy and molecular biology, including in situ hybridization, to establish and head a laboratory within the Neuroscience Therapeutics section. The successful candidate will participate in research designed at understanding mechanisms and developing new drug therapies for neurological, neurodegenerative and psychiatric diseases. Applicants must have a Ph.D. in a biological science, formal training in neuroanatomy and molecular biology and 4-10 years postdoctoral experience. An established record of publications applying in situ hybridization and immunostaining techniques to the study of the central nervous system is required. A strong background in neuroscience and neuropharmacology, strong written and oral communication skills and supervisory experience are also essential.

Parke-Davis offers a competitive salary/benefits package and career growth potential. Please see our representatives at the conference or resumes should be submitted on laser-quality white paper with a legible 10 pt. or larger type and avoiding bold or italic typefaces, borders, etc. along with references to: **PARKE-DAVIS PHARMACEUTICAL RESEARCH, Human Resources Department, Job Code: CJMTH, 2800 Plymouth Road, Ann Arbor, MI 48105, Fax: (313) 998-3394, Email: resume@aa.wl.com.**

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**BRIGHAM AND
WOMEN'S HOSPITAL**

FACULTY POSITION

Division of Women's Health

The Brigham and Women's Hospital is recruiting a Ph.D. and/or MD basic investigator for the newly established Division of Women's Health in the Departments of Medicine and of Obstetrics and Gynecology.

The candidate will have a faculty appointment as an Instructor or Assistant Professor, depending on qualifications, at the Harvard Medical School. The individual will participate in collaborative research on cellular and molecular mechanisms of insulin resistance; demonstrated expertise in this area is a requirement. The candidate will also be expected to establish an independent research program with the ultimate expectation that 50% time will be devoted to collaborative research and 50% to independent research. Three years of funding will be provided.

Please send or fax curriculum vitae and the names of three references to: Dr. Andrea Dunaif, Director, Women's Health, Division of Women's Health, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115; Fax: (617) 264-5210. We are an equal opportunity employer committed to workforce diversity. EOE/AA.

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POSITIONS OPEN

Subdiscipline: High resolution functional brain imaging, basic mechanisms of vascular regulation and neurovascular coupling.

Optimal technical background: Optical imaging and NIR spectroscopic techniques.

An opening is expected for an **ASSISTANT PROFESSOR** in radiology, beginning January 1, 1998. We are particularly interested in candidates specializing in research at the interface between vascular regulation and neuronal activity, and mechanisms underlying high resolution functional brain mapping. The successful candidate will be expected to establish collaborative studies with other scientists within the department.

Applicants must possess a Ph.D., a promising record of publications, research experience in functional brain imaging, and a strong interest in the biophysical mechanisms underlying cortical intrinsic signals. A background in optical and spectroscopic functional brain imaging techniques in animal models is required, as well as proven abilities to initiate and conduct multidisciplinary research in functional imaging.

Research interests should be in the basic physiological mechanisms underlying high resolution functional brain imaging. The applicant will be expected to use multiple imaging modalities techniques (i.e., optical imaging, fMRI, and NIR optical tomography) to address neurovascular regulatory mechanisms operating under normal and pathological conditions (e.g., stroke, ischemia). Of particular interest is the development and use of optical imaging and spectroscopic techniques to explore the metabolic processes and neurovascular regulatory mechanisms in animal models at the microscopic scale.

Please send letter of interest along with curriculum vitae to: **Bruce R. Rosen, M.D., Massachusetts General Hospital-NMR Center, Building #149, 13th Street, Charlestown, MA 02129.** E-mail: bruce@nmr.mgh.harvard.edu. *Massachusetts General Hospital is an Equal Opportunity Employer.*

ASSISTANT PROFESSOR—TENURE-TRACK MOLECULAR BIOLOGIST

The Department of Biological, Geological, and Environmental Sciences of Cleveland State University invites applications from Developmental or Cellular Biologists who use recombinant DNA technology in their research. We seek to fill this tenure-track position at the level of Assistant Professor. Applicants must hold a Ph.D., have postdoctoral or equivalent experience, and demonstrate the potential for excellence in teaching and research. The successful candidate will be expected to establish an independent, funded research program, and to teach graduate courses in his or her areas of expertise as well as undergraduate courses. The Department offers B.S. and M.S. degrees in biology, and a Ph.D. in regulatory biology through a joint program with the Research Institute of the Cleveland Clinic Foundation. No later than January 5, 1998, candidates must submit a curriculum vitae, a description of research plans and teaching interests, and arrange for three letters of recommendation to be sent to: **Dr. James M. Willard, Chair, Faculty Search Committee, Department of Biological, Geological, and Environmental Sciences, Cleveland State University, 2399 Euclid Avenue, Cleveland, OH 44115-2403.** For additional information, consult the Department's World Wide Web page (website: <http://www.asic.csuohio.edu/biology/>), e-mail the Search Committee (e-mail: search@biology.csuohio.edu), or contact: **Dr. Willard (Telephone: 216-687-2435).** *Cleveland State University is an Affirmative Action/Equal Opportunity Employer committed to nondiscrimination. Minority/Females/Disabled/Veterans encouraged.*

The University of Southern Mississippi. The Department of Chemistry and Biochemistry invites outstanding candidates to apply for a tenure-track **ASSISTANT PROFESSOR** position to begin in August, 1998. The successful applicant will have a Ph.D. in chemistry, biochemistry, or a related area and will develop a vigorous, externally funded Ph.D.-level research program in an area of chemistry, biochemistry, or chemical education. A letter of application; curriculum vitae; publications list; statements of research plans, start-up needs, and teaching philosophy; and three letters of reference should be sent to: **Chair, Chemistry and Biochemistry, The University of Southern Mississippi, Hattiesburg, MS 39406-5043.** Website: <http://www-chem.st.usm.edu/Chem.html>. Applications received after December 1, 1997, cannot be assured of consideration. *Affirmative Action/Equal Opportunity Employer/ADA Institution.*

POSITIONS OPEN



The Department of Food Science invites applications from qualified individuals interested in an **ASSISTANT PROFESSOR** position in food processing with interest in dairy processing. This tenure-track position requires evidence of competence and commitment to excellence in teaching and research. Duties will include undergraduate and graduate teaching and independent and collaborative research in basic and applied aspects of food processing. Multidisciplinary research between departments and with other faculties in the university and other research institutions is encouraged. Communication and interaction with the food processing industry in Manitoba will be expected.

A Ph.D. in food science, or a closely related field, with experience in processing of foods is required. An undergraduate degree in chemical engineering would be an asset. Postdoctoral or industrial experience is highly desirable and the ability to sustain a research program with external funding is expected. The applicable salary range for an Assistant Professor is \$40,868.00 to \$62,509.00. Starting salary will be commensurate with qualifications.

The closing date for applications is December 15, 1997, and the anticipated starting date is May 1, 1998. A letter of application, along with résumé, academic transcripts, and names, addresses, and telephone numbers of three professional references should be sent to: **Dr. Richard A. Holley, Head, Department of Food Science, University of Manitoba, Winnipeg, Manitoba R3T 2N2 Canada.** Telephone: 204-474-9601; FAX: 204-474-7630; e-mail: rick_holley@umanitoba.ca. Interested individuals may visit the Department of Food Science website for additional information at website: http://www.umanitoba.ca/afs/food_science/.

The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, aboriginal peoples, and persons with disability. Priority consideration will be given to Canadian citizens and permanent residents.

ASSISTANT PROFESSOR STRUCTURAL BIOLOGY/NMR UNIVERSITY OF GEORGIA

As part of a major structural biology initiative, the Departments of Chemistry and Biochemistry and Molecular Biology at The University of Georgia invite applications for a joint tenure-track faculty position at the Assistant Professor level starting July 1, 1998. Preference will be given to candidates with experience and research interests in the area of solution structure and dynamics of biological macromolecules by NMR. Resources are available to attract candidates who are poised to contribute immediately and significantly to structural biology applications of NMR spectroscopy. These resources include acquisition of a 600 MHz NMR spectrometer as part of our structural biology initiative, and an 800 MHz spectrometer which is supported by the Georgia Research Alliance as a regional facility. Applicants should possess a Ph.D. in chemistry, biochemistry, or closely related field, the potential to establish a vigorous independent research program, and the ability to contribute to teaching at both undergraduate and graduate levels. Postdoctoral experience is desirable. Applicants should send a curriculum vitae, a statement of teaching and research plans, and arrange to have three letters of reference sent to: **Professor Donald M. Kurtz, Jr. and Professor James H. Prestegard, Co-chairs, NMR Search Committee, Department of Chemistry, The University of Georgia, Athens, GA 30602-2556.** Deadline for receipt of applications has been extended to December 1, 1997. *The University of Georgia is an Affirmative Action/Equal Employment Opportunity Institution. We encourage applications from minorities and women.*

Harvard University, Department of Anthropology intends to make an appointment in biological anthropology at the **ASSISTANT PROFESSOR** level, to begin September 1998, in the area of human biology, ecology, and/or behavior of contemporary human populations. Evidence of a strong commitment to field research, and of ability to teach undergraduates and direct doctoral research, are important considerations. Curriculum vitae and names of three references should be sent by January 1, 1998, to: **Richard W. Wrangham, Department of Anthropology, 11 Divinity Avenue, Harvard University, Cambridge, MA 02138.** *Equal Employment Opportunity/Affirmative Action Employer. Harvard University particularly encourages applications from women and members of minority groups.*

POSITIONS OPEN

ENVIRONMENTAL MICROBIOLOGIST

The Department of Biology of The University of Akron invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level beginning August 24, 1998. Candidates must have a Ph.D. and postdoctoral experience. We are especially interested in, but not restricted to, candidates with research interests in aquatic microbiology. We expect the successful candidate to teach a course in environmental microbiology, one other undergraduate course, and a graduate course in a specialty area; direct Master's students; and establish an externally funded research program. The University of Akron is the third-largest state university in Ohio with more than 25,000 students. The university is in an urban setting with diverse cultural and recreational opportunities, including the nearby Cuyahoga Valley National Recreation Area. Review of applications will begin January 20, 1998, and will continue until we fill the position. Applicants should send a curriculum vitae, a statement of teaching/research interests, and three letters of recommendation to:

**Dr. Martha Kory
Chair, Search Committee
The University of Akron
Department of Biology
Akron, OH 44325-3908
Telephone: 330-972-7154
FAX: 330-972-8445
E-mail: mmk1@uakron.edu**

Website: <http://www.uakron.edu/biology/>

The University of Akron is an Equal Education and Employment Institution.

ASSISTANT/ASSOCIATE PROFESSOR EPILEPSY RESEARCH University of California, San Francisco

The Department of Neurological Surgery and the Graduate Program in Neuroscience invite applications for an Assistant or Associate Professor (in-residence) faculty position for individuals with a Ph.D. and/or M.D. degree and a demonstrated interest in epilepsy-related research. Applicants should have a strong background in cellular electrophysiology and nervous system anatomy including *in vitro* slice physiology (extra- and intracellular), *in vivo* physiology, cell-fill techniques, and a familiarity with animal models of seizures, epilepsy, and epileptogenesis. Experience with cellular and molecular biology is also strongly preferred. The appointee will be expected to participate in a multidisciplinary epilepsy research program that seeks to advance the understanding of epilepsy through, in part, the analysis of central nervous system tissue removal for the treatment of refractory epilepsy. The position includes excellent laboratory space and start-up funds, and direct access to the very substantial neuroscience environment at UCSF. Applicants should send a letter, curriculum vitae, and three letters of reference to: **Daniel H. Lowenstein, Department of Neurology, Box 0114, University of California, San Francisco, San Francisco, CA 94143.**

University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer. The University undertakes Affirmative Action to assure Equal Opportunity for underutilized minorities and women, for persons with disability, and for Vietnam-era veterans and special disabled veterans.

Applied Microbiology and Microbial Physiology. Tenure-track **ASSISTANT PROFESSOR** position beginning September 1998 in a natural sciences department. Teaching will include microbial physiology, applied/environmental microbiology, and introductory biology. The University of Michigan-Dearborn is a commuter campus which emphasizes excellence in both teaching and research. The successful candidate will be expected to develop a strong research program involving undergraduates. The Department offers undergraduate degrees in biochemistry, biology, chemistry, environmental science and studies, microbiology, and physics. Doctoral degree required; postdoctoral experience desired. Submit curriculum vitae, research plan, transcripts, and names of three references to: **Microbiology Search Secretary, Department of Natural Sciences, University of Michigan-Dearborn, Dearborn, MI 48128-1491.** Inquires can be addressed to: **Dr. L. E. Fisher (e-mail: lefisher@umich.edu).** Review of applications will begin January 5. *The University of Michigan-Dearborn is dedicated to the goal of building a culturally diverse and pluralistic faculty committed to teaching and working in a multicultural environment, and strongly encourages applications from minorities and women. The University is an Equal Opportunity/Affirmative Action Employer.*

Alcon Laboratories, Inc., a \$2 billion global leader in the research and development of ophthalmic and vision care products, has a position immediately available in our Research & Development Division for a Senior Scientist in Molecular Biology. The selected candidate must be willing to collaborate actively within a multidisciplinary team of biochemists, cell biologists, pharmacologists, and medicinal chemists in identifying new therapeutic targets and drugs for treatment of ocular disease.

Principal Scientist

Molecular Biology

Requirements include a Ph.D. in Molecular Biology, Biochemistry, or Cell Biology with at least 7-10 years of productive research in Molecular Biology, preferably in a pharmaceutical research environment. Candidates must have a strong and broad background in molecular biology including recombinant DNA techniques, cDNA library construction and screening, plasmid construction, gene transfection, expression systems, protein production, and bioinformatics. Preference will be given to applicants with either experience or strong interest in the genetics of ocular disease.

Alcon Laboratories, Inc., offers competitive salaries and excellent benefits including medical/life/dental/vision insurance and a generous profit sharing trust plan. Our 160-acre headquarters campus is located in Fort Worth, Texas, renowned for its warm climate, favorable cost of living, no state income tax, and a variety of educational, recreational, and cultural attractions. Please send your **curriculum vitae and salary requirements** to: Alcon Laboratories, Inc., Placement & Development, T1-3 (PSMB), P.O. Box 6600, Fort Worth, TX 76115. Or fax to (817) 551-4629 and reference (PSMB). Or e-mail to helen.lofflin@alconlabs.com and reference (PSMB).

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LABORATORIES

More Than Meets The Eye

Tenure or Tenure-Track Position Cardiovascular Magnetic Resonance Imaging

A tenured or tenure-track position is available in the Laboratory of Cardiac Energetics (**Chief, Robert S. Balaban, Ph.D.**) National Heart, Lung and Blood Institute for a research scientist to direct an independent cardiovascular magnetic resonance imaging laboratory developing technology and applications in this field. The candidate may have a Ph.D. or M.D. degree and have achieved independent research status as evidenced by publication in major peer-reviewed journals. Research experience in cardiovascular MRI is required for this position in any areas involving data acquisition or analysis, hardware, physiological or clinical applications. The Laboratory of Cardiac Energetics has MR systems for performing cardiovascular research including a dedicated 1.5 and 4.0 Tesla systems, staffed electrical and mechanical shops, unique software and imaging processing environments, and an active clinical program. Position (tenure or tenure-track), salary, and research support will be commensurate with experience. Position comes with a minimum of two postdoctoral positions and one technician. Tenure-track candidates are supported for up to 6 years before consideration for tenure.

Applications must be received within six weeks of the publication of this advertisement. Please submit a curriculum vitae and brief statement of research interests along with three letters of reference to:

Office of the Scientific Director
NHLBI

10 Center Drive MSC 1668
Bethesda, MD 20892-1668

NIH is an Equal Opportunity Employer.

Neuroscientist

The University of Calgary Department of Anatomy and the Neuroscience Research Group invite applications for a full-time academic Neuroscientist in the field of molecular and/or cellular studies of the development or plasticity of the nervous system. This position offers an excellent opportunity to develop an independent research program and collaborative interactions within a multidisciplinary research environment. Duties will also include teaching and graduate student supervision.

Qualifications include a PhD (or equivalent), at least two years' postdoctoral experience, and a proven record of excellence in research.

The selected candidate must compete successfully for salary and establishment funding from the Alberta Heritage Foundation for Medical Research and/or Medical Research Council of Canada, and will have 75% of time protected for research. Interested persons are invited to visit our website (<http://www.ucalgary.ca/~neuro>).

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary is committed to Employment Equity.

Please submit a curriculum vitae and a statement of research interests, and arrange to have three letters of reference sent directly, by January 5, 1998, to:

Dr. S. McFarlane, Chair, Selection Committee
Department of Anatomy
The University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta, Canada T2N 4N1

 **THE UNIVERSITY OF
CALGARY**

www.ucalgary.ca

Glaucoma/AMD Scientist

Merck Research Laboratories in West Point, Pennsylvania, a world leader in biological and pharmaceutical research, has an immediate opportunity for a Post Doctoral Scientist in the Department of Human Genetics.

The successful candidate will be responsible for the studies of underlying mechanisms causing glaucoma and age-related macular degeneration. The candidate will be expected to participate in a research program that will interact with current research efforts within the department.

A Ph.D., MD degree or equivalent in Cell Biology with experience in studying the retina or anterior segment of the eye, and cell culture techniques are required. Experience in Molecular Genetics is preferred.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send *curriculum vitae* with cover letter and the names of three references to: **Ad # B-130, MRL Human Resources, WP42-2, Merck Research Laboratories, P. O. Box 4, West Point, PA 19486.** Only candidates considered for interviews will receive responses. We are an Equal Opportunity Employer, M/F/D/V.

<http://www.merck.com>

 **MERCK**

POSITIONS OPEN

NEUROBIOLOGIST

The Biology department at Gustavus Adolphus College invites applications for an **ASSISTANT PROFESSOR**, tenure-track position in neurobiology starting late August, 1998. A Ph.D. is required; demonstrated teaching ability and postdoctoral research experience are desirable. Responsibilities will include: team-teaching a required mid-level cell and molecular biology course for majors and teaching a mid-level human anatomy course and lab with cadaver. Develop and teach a mid-level introductory neuroscience course for both biology and psychology students, and an upper-level neurobiology course in area and regular January-term electives of choice. The successful applicant will be expected to develop an active research program involving undergraduates and also to secure extramural research funding. The department has new and renovated research and teaching labs including molecular biology, animal, tissue culture, and image analysis facilities. Candidates should submit a letter of application stating qualifications, a statement of teaching philosophy and research interests, curriculum vitae, undergraduate and graduate transcripts (photocopies acceptable), and three letters of recommendation to: **Colleen Jacks, Chair, Biology Department, Gustavus Adolphus College, 800 West College Avenue, St. Peter, MN 56082**. Application review begins December 19, 1997, and continues until the position is filled.

Gustavus Adolphus College is a highly selective liberal arts school and located 75 miles south of the Twin Cities. It is the policy and practice of Gustavus Adolphus College to provide Equal Educational and Employment Opportunities for all. We specifically encourage applications from women, minorities, and persons with disability.

POTATO PATHOLOGIST DEPARTMENT OF PLANT PATHOLOGY UNIVERSITY OF MINNESOTA

Tenure-track, research and teaching position at the **ASSISTANT PROFESSOR** level to study potato diseases with an emphasis on resistance. The successful candidate will develop an independent program, including classical and/or molecular methods, teach at undergraduate and graduate levels, and participate in outreach. Minimum qualifications: Ph.D. (by date of appointment) in plant pathology or related discipline, background in disease resistance, and evidence of publications. Desired qualifications: experience with potatoes, teaching, grant-writing, coursework or experience in breeding, genetics, and molecular techniques, willingness to collaborate. Salary: competitive and commensurate with qualifications and experience, plus standard University benefits. Send curriculum vitae, transcripts, written statement of research, teaching (identify subjects you wish to teach) and career goals, and have three letters of recommendation sent, and postmarked, by January 31, 1998, to:

**Dr. Nevin Dale Young, Chair
Potato Pathologist Search Committee
495 Borlaug Hall
University of Minnesota
St. Paul, MN 55108**

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

ASSISTANT/ASSOCIATE PROFESSOR BIOLOGICAL SCIENCES GORDON COLLEGE Division of Natural Sciences and Nursing

Tenure-track position beginning August, 1998. Successful candidate will have a doctorate in a biological science or a Master's degree in a biological science and a related doctorate. Teaching assignment will include laboratory courses in general biology. It may also include laboratory courses in anatomy, physiology, and microbiology, and non-laboratory courses in natural science. Qualifications to teach another discipline a plus. College-level teaching experience preferred. A strong commitment to the principles of two-year college education is essential. Rank and salary are dependent on credentials and experience. Applications accepted until February 16, 1998. Send résumé, teaching philosophy, unofficial transcripts, and names and telephone numbers of three references to: **Judith M. Malachowski, Ph.D., RN, Chair, Division of Natural Sciences and Nursing, Gordon College, 419 College Drive, Barnesville, GA 30204**. Gordon College, the University System of Georgia, is a two-year institution located within convenient driving distance of Atlanta and Macon. *Affirmative Action/Equal Opportunity Employer/ADA.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE/FULL PROFESSOR DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY University of Connecticut

Diversity and evolution of non-flowering land plants. The Department of Ecology and Evolutionary Biology at the University of Connecticut anticipates a tenure-track position in evolution and diversity of non-angiospermous land plants at the level of Assistant Professor, although all ranks will be considered. The successful candidate must have expertise in one or more extant or extinct land plant groups and will have established an innovative research program focusing on the origin, diversity, evolution, or systematics of land plants. Teaching responsibilities will include introductory biology/botany and a specialty course in land plant diversity, evolution, or paleobotany. Candidates must have Ph.D. in biology, botany, or a related area; postdoctoral experience is desirable. Please send curriculum vitae, statements of research and teaching interests, three letters of recommendation, and copies of publications to: **Cynthia Jones, Chair, Land Plant Evolution Search Committee, Department of Ecology and Evolutionary Biology, Box U-43, University of Connecticut, Storrs, CT 06269-3043**. Review of applications will begin January 16, 1998. *The University of Connecticut encourages applications from underrepresented groups including minorities, women, and people with disability. (Search #98A109)*

ASSISTANT PROFESSOR of biology, applications are invited for two full-time tenure-track faculty positions, beginning August 1998. The selected candidates will be expected to conduct research and advise majors in biological sciences. Applicants should have a Ph.D. and research and teaching experience in the following specified areas:

Position One: Animal Virologist or Cell Biologist, with tissue culture expertise. Teaching assignments will include introductory biology, upper-level courses in tissue culture technique and in area of specialization.

Position Two: Animal Ecologist or Conservation Biologist with training in wildlife management, (expertise in GIS preferred). Teaching assignments will include introductory biology, environmental biology for non-majors, and upper-level courses in area of specialization.

Purdue University Calumet, a campus of the Purdue system, enrolls over 9,000 students in more than 80 Associate, Bachelor's, and Master's degree programs in 16 academic departments. The 12-building, commuter campus is situated on 180 wooded acres in northwest Indiana, less than one hour by car or train from Chicago. The Department of Biological Sciences offers programs leading to a B.S. degree and an M.S. degree in biology.

To apply, send a statement of teaching and research experience and interest, curriculum vitae, copies of transcripts, and three letters of recommendation to: **Search Committee #1 or #2, Biological Sciences, Purdue University Calumet, Hammond, IN 46323**. Reviewing process begins December 1, 1997. *Purdue University Calumet is an Equal Opportunity/Affirmative Action Employer.*

Faculty position in anatomy and cell biology. The Department of Anatomy and Cell Biology at Temple University School of Medicine seeks candidates for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR**. Research interests in the Department include cell and developmental aspects of bone, reproductive, and cardiovascular biology. For more detailed information concerning the Department, please visit our website: <http://www.temple.edu/departments/ACB>. We prefer individuals with expertise in cutting-edge cellular and molecular biological approaches. Candidates must have a Ph.D. degree; entry-level Assistant Professors must have postdoctoral training with high potential to develop and sustain an independent and productive research program; Associate Professors must have an established, externally funded program. Competitive start-up package is available. Desire to participate in teaching medical and dental students is requisite. The candidate will also participate in the departmental graduate program in Development. Applicants should send a curriculum vitae, a concise statement of their present and future research interests, and the names and addresses of three references to: **Steven N. Popoff, Ph.D., Chairperson, Department of Anatomy and Cell Biology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140**. Deadline for receipt of application materials is January 31, 1998. *Temple University is an Equal Opportunity Employer and strongly encourages applications from women and minorities.*

POSITIONS OPEN

CELL BIOLOGIST

The Department of Biological Sciences at Louisiana State University, Baton Rouge, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level available August 16, 1998. Preference will be given to applicants who have used a multidisciplinary approach to answer basic questions related to cell morphogenesis; cell motility/intracellular movements with respect to organelles, chromosomes, and motors; or cell-cell interactions such as adhesion, recognition, or communication. A Ph.D. or equivalent degree and postdoctoral experience in an appropriate area of cell biology or related field are required. The successful candidate will be expected to maintain a vigorous, extramurally funded research program and contribute to teaching courses at the undergraduate and graduate level.

Applicants should send curriculum vitae, including statements of research and teaching interest, and should arrange to have three letters of recommendation sent to: **Cell Biologist Search, c/o Dr. John W. Lynn, 508 Life Sciences Building, Louisiana State University, Baton Rouge, LA 70803**. Review of applications will begin December 20, 1997, and will continue until position is filled. Additional information about the Department is available located at website: <http://chrs1.chem.lsu.edu/~biosci>. Inquiries may be sent by e-mail: zolyynn@unix1.sncc.lsu.edu.

LSU is an Equal Opportunity Employer.

AQUATIC BEHAVIORAL ECOLOGIST

The Department of Biological Sciences at Bowling Green State University invites applications for a tenure-track position in aquatic behavioral ecology beginning August 1998. **ASSISTANT PROFESSOR** preferred; **ALL RANKS** considered. Applicants are expected to have a Ph.D. and postdoctoral experience and conduct an extramurally funded research program involving M.S./Ph.D. students. Candidates should have a primary research interest in the mechanisms of animal behavior and/or the neural basis of behaviors and must be able to interact with a strong aquatic ecology group. Teaching will consist of undergraduate/graduate courses in animal behavior and area of specialization. Service activity is also expected. Applicants should submit a curriculum vitae, three reference letters, statement of research and teaching goals, and not more than four reprints by December 15, 1997, to: **Dr. Paul A. Moore, Chair, Search Committee, Department of Biological Sciences, Bowling Green State University, Bowling Green, OH 43403-0212**. For additional information, visit our website: <http://www.bgsu.edu/departments/biology>. *Bowling Green State University is an Affirmative Action/Equal Employment Opportunity Employer and encourages applications from women, minorities, veterans, and persons with disability. Qualified applicants must have proof of legal authority to work in the United States.*

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES. The Department of Biological Sciences of York College of Pennsylvania is seeking a **FIELD ECOLOGIST** to teach undergraduate courses in ecology and environmental biology. The full-time tenure-track position starts in the fall of 1998. A doctorate is required. Applicant must be enthusiastic about teaching undergraduates and directing undergraduate research. Please submit a letter of application, a curriculum vitae, a statement of your teaching philosophy, a description of how you can involve undergraduates in your research, and three letters of reference. Review of applications will begin December 10, 1997. Send application to: **Chair, Search Committee, Department of Biological Sciences, York College of Pennsylvania, York, PA 17405-7199**. College website: <http://www.ycp.edu>. *York College of Pennsylvania is an Equal Opportunity Employer.*

The Botanical Garden of the University of Puerto Rico (UPR) and the Department of Biology, UPR, Río Piedras campus seek applicants for a tenure-track **ASSISTANT PROFESSOR** to serve as the Garden's **BOTANIST**. The candidate is expected to curate the Botanical Garden Herbarium (UPR), develop an active research program in plant systematics and/or conservation, and to teach at both the graduate and undergraduate levels. Candidates must hold a Ph.D. Knowledge of Spanish and herbarium management is recommended. Interested candidates should send résumé, a statement of current and future research goals, and three letters of reference before January 23, 1998, to: **Dr. José E. García-Arrarás, Recruitment Committee, Box 23360, San Juan, PR 00931-3360**. *An Affirmative Action/Equal Opportunity Employer.*



FONDATION ARES-SERONO
THE ARES-SERONO FOUNDATION

The Ares-Serono Foundation Fellowships in Biomedicine

1998 Award Announcement

FELLOWSHIPS IN REPRODUCTIVE ENDOCRINOLOGY

Two Fellowships will be awarded by The Ares-Serono Foundation for postdoctoral training pertaining to studies in the field of reproductive endocrinology, based on an international competition.

Fellowship Terms

- Full-time postdoctoral training
 - 2 years of support
 - USD 40,000 annual grant towards salary and expenses for postdoctoral training
-

Eligibility

- Applicants must have completed a PhD/MD or equivalent academic degree within 3 years from the start date of the fellowship
 - Ability to communicate fluently in English (verbal and written)
 - Preference will be given to candidates applying for a postdoctoral training in an Institute other than the one where their final academic degree was obtained.
-

Schedule

Application deadline: February 28th, 1998
Grants announced: July 15th, 1998
Fellowships start: October 1998

For the Application Form and Eligibility Guidelines, please contact:

Maria Grazia Cali
Secretary of the Board
Via Casilina 125
00176 Rome, Italy
FAX +39-6-70384577
Tel. +39-6-70384513/721
Internet address: <http://www.serono.ch>
E-mail address: ares-serono.foundation@pn.itnet.it

POSITIONS OPEN

TWO TENURE-TRACK FACULTY POSITIONS IN THE DEPARTMENT OF BIOLOGICAL SCIENCES

Baldwin-Wallace College invites applications for two full-time tenure-track positions at the **ASSISTANT PROFESSOR** level to begin in August of 1998. Position One is to teach courses in molecular biology and genetics for biology majors, and human anatomy and physiology for non-majors. Position Two is to teach biology major courses in general botany, plant physiology, and principles of biology. All courses are at the undergraduate level. Candidates must have a Ph.D. Excellence in teaching, academic advising, and the ability to direct undergraduate research are essential. Baldwin-Wallace is a liberal arts oriented college located in a suburb of Cleveland, Ohio. For information about the college visit our website: www.bw.edu. Please send a letter of application stating teaching experience and research interest, curriculum vitae, official transcripts, and three letters of recommendation by December 31, 1997, to: **Dr. Stephen D. Hilliard, Department of Biological Sciences, Baldwin-Wallace College, 275 Eastland Road, Berea, OH 44017-2088.** E-mail inquiries may be directed to e-mail: sdhilliard@erinet.net. Baldwin-Wallace is an Equal Employment Opportunity/Affirmative Action Employer. Minority and women candidates are especially urged to apply.

ASSISTANT PROFESSOR MOLECULAR MECHANISMS OF BIRTH DEFECTS

Applications are invited to compete for available positions in the research track at the Assistant Professor level to investigate molecular/genetic mechanisms of birth defects. The successful candidate will join a research team active in the investigation of: signal transduction, regulation of gene expression, embryotoxicity, and genetic determinants of abnormal development of the craniofacial region. Opportunities exist to collaborate with existing research programs in the University of Louisville Birth Defects Center. The candidate will be expected to develop an independent research program and successfully compete for external funding in an area related to molecular craniofacial biology. Applicants should submit: curriculum vitae, statement of current research activities and future research plans, and names of three references to: **Dr. Robert Greene, Laboratory of Molecular Craniofacial Development, Department of Biological and Biophysical Science, University of Louisville School of Dentistry, 501 South Preston Street, Louisville, KY 40292.** The University of Louisville is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

University of Wisconsin-La Crosse. Biochemistry. **ASSISTANT PROFESSOR.** The Department of Chemistry invites applications for a tenure-track Assistant Professor position to begin August 31, 1998. The 18-member chemistry department is well-equipped and committed to excellence in undergraduate teaching research. As part of the growing College of Science and Allied Health, the department has strong interdisciplinary programs in the environmental/biological sciences and allied health fields. We are seeking an individual who will complement our current staff and establish an outstanding record of teaching and undergraduate research. Instructional responsibilities will include undergraduate biochemistry and introductory/general chemistry. Biochemistry Ph.D. requirements must be completed by start date. Send curriculum vitae, copies of undergraduate and graduate transcripts, three original letters of recommendation, and evidence of teaching effectiveness and research productivity/potential to: **Dr. Bruce Osterby, Chair, Department of Chemistry, University of Wisconsin-La Crosse, La Crosse, WI 54601.** Website: www.uwlax.edu. All materials must be received by December 31, 1997.

Affirmative Action/Equal Opportunity Employment.

ANATOMIST—ASSISTANT PROFESSOR. One-year visiting, beginning August 1998. Required: Ph.D. in anatomy, ability to teach human anatomy, general biology, and communicate in English. Experience in human gross anatomy preferred. Send application letter, curriculum vitae, statement of teaching philosophy, unofficial transcripts, and names, addresses, and telephone numbers of three references to: **Dr. Leonard Lundquist, Chair, Division of Biological and Physical Sciences, Lander University, Greenwood, SC 29649.** Review of completed applications will begin December 1. *Women and minorities are most strongly encouraged to apply. Affirmative Action/Equal Opportunity Employment.*

POSITIONS OPEN

MICROBIAL PATHOGENESIS ASSISTANT PROFESSOR

The Department of Biology and Microbiology, California State University, Los Angeles, is seeking to fill a tenure-track faculty position beginning fall, 1998, with an individual whose research interests are in the field of molecular microbial pathogenesis. Ph.D. required. College-level teaching and postdoctoral research experience preferred. The candidate is expected to teach undergraduate and graduate courses, including medical microbiology, cell biology, and at least one elective in his/her area(s) of expertise, and to develop a productive, independently funded research program involving M.S. and undergraduate students. Start-up funds are available. Submit curriculum vitae, statements of research plans and teaching philosophy, and three letters of reference to: **Dr. Nancy McQueen, Search Committee, Department of Biology and Microbiology, California State University, Los Angeles, CA 90032.** Inquiries to Telephone: 213-343-2036; e-mail: nmcqueen@calstatela.edu. Complete applications will be reviewed beginning January 15, 1998.

Equal Opportunity/Disabled/Title IX Employer. Reasonable accommodation may be requested.

DEVELOPMENTAL BIOLOGIST

Applications for a tenure-track **ASSISTANT PROFESSORSHIP** are invited. An individual using molecular approaches to study contemporary problems in developmental biology is preferred. Candidates must have postdoctoral experience and will be expected to develop an extramurally funded research program. The successful candidate will teach undergraduate courses in two of the following areas: developmental biology, molecular biology, and genetics. The department has Master's/doctoral programs with active research in comparative biochemistry, physiology, and environmental biology. Review of applications will begin 5 January 1998 and continue until the position is filled. Desired starting date is 1 September 1998, but negotiable. Applicants should submit a curriculum vitae, statement of research interests, and names and addresses (including e-mail) of three references. Forward application materials to: **Dr. Daniel D. Jones, Chair, University of Alabama at Birmingham, Department of Biology, 109 CH, 1300 University Boulevard, Birmingham, AL 35294-1170.** The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, INSTRUCTOR POSTDOCTORAL FELLOW THE HENRY HOOD RESEARCH PROGRAM The Pennsylvania State University College of Medicine

Scientific research positions are available immediately to investigate the molecular control of cardiac cellular growth in the laboratory of **Dr. Kenneth M. Baker**, located in the Sigfried and Janet Weis Center for Research. The NIH- and AHA-funded research group has focused interests ranging from molecular signaling pathways to transcriptional regulation. Individuals should have a Ph.D. and/or M.D., and a strong background in molecular and cellular biology and biochemistry with commensurate experience. These are Fixed-Term I positions. Send a description of your research interests, curriculum vitae, and three references to: **Mrs. Barbara A. Brown, Administrative Assistant, Henry Hood Research Program, Sigfried and Janet Weis Center for Research, 100 North Academy Avenue, Danville, PA 17822-2601.** For your health, the Weis Center for Research is a smoke-free campus. *Affirmative Action/Equal Opportunity Employer.*

COMPUTATIONAL BIOLOGY RESEARCH ASSISTANTSHIPS. The Albuquerque High Performance Computing Center (AHPCC) will support two Research Assistantships for highly qualified graduate students to obtain a Ph.D. in biology with an emphasis in high performance computing. Applicants must be interested in creating new computational algorithms or utilizing advanced computational techniques. The research can involve any area of computational biology; see website: <http://biology.unm.edu>.

For information and application forms contact: **The Academic Support Aide, Graduate Program, Department of Biology, University of New Mexico, Albuquerque, NM 87131-1091.** Telephone: 505-277-3411; FAX: 505-277-0304; e-mail: vkent@unm.edu. Application deadline is February 15, 1998; mention your interest in the AHPCC Assistantship in the application.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR. The Department of Integrative Physiology of the University of North Texas Health Science Center at Fort Worth invites applications for a tenure-track position. A research emphasis in neural control of circulation or respiration with specific emphasis on the central nervous system is required. Evidence of teaching within a medical curriculum is preferred. Salary and start-up support are negotiable based upon experience.

The health science center is a state-supported institution with state-of-the-art facilities for medical student and graduate student education and is located in the cultural district of Fort Worth. Research facilities are supported by a AAALAC-approved barrier facility vivarium. Submit letter of application stating career goals, curriculum vitae, and three letters of recommendation to: **Robert T. Mallet, Ph.D., Search Committee Chair, Department of Integrative Physiology, University of North Texas Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699.** Deadline for application: February 5, 1998, with a start date of September 1, 1998.

The health science center is an Equal Opportunity/Affirmative Action Institution.

MOLECULAR ECOLOGIST

The Department of Biology and Microbiology at California State University, Los Angeles, is seeking a Molecular Ecologist for a tenure-track **ASSISTANT PROFESSORSHIP** beginning fall, 1998. Ph.D. required. Preference given to candidates with postdoctoral experience in the application of molecular genetic techniques to the ecology, evolution, or conservation of marine populations. The successful candidate will be expected to collaborate with environmental science colleagues in an expanding program of research and student training. Research facilities and start-up funds provided. He/she will be expected to teach both undergraduate and graduate courses. Review of applications will begin January 2, 1998. The position will remain open until filled. Submit curriculum vitae, statement of research plans, and three letters of reference to: **Dr. Carlos Robles, Department of Biology and Microbiology, California State University, Los Angeles, CA 90032.** Inquiries to Telephone: 213-343-2067; e-mail: crobles@calstatela.edu.

Equal Opportunity/Disabled/Title IX Employer. Reasonable accommodation may be requested.

Conservation Science. Tenure-track position at **ASSISTANT** or **ASSOCIATE** level for a **CONSERVATION BIOLOGIST**, with interest in environmental studies, to refine, help launch (in fall 1998), administer, and teach in a recently approved interdisciplinary conservation science major. Program includes components at nearby Muskingum Technical College and the Wilds, North America's largest conservation research and education field facility. Successful applicant will develop and teach an orientation seminar, a course in conservation biology, and the associated capstone research courses. Will be expected to perform some administrative duties and to foster a productive working relationship among the three institutions. Ph.D. and teaching and research experience required. Send letter of application, curriculum vitae, transcripts, and names, addresses, and telephone numbers of three references to: **Dr. Paul Naour, Associate Academic Dean, Muskingum College, New Concord, OH 43762.** E-mail: naour@muskingum.edu. Review of applications will begin immediately and will continue until position is filled. Would be helpful to have person in place by mid-summer. *Equal Opportunity Employer.*

PHYSIOLOGIST. Applications are invited for a tenure-track position in physiology at the **ASSISTANT PROFESSOR** level. Area of research is open to all aspects of physiology. Teaching duties include a service course on human anatomy and physiology. Applicants must have a Ph.D., a good academic background in anatomy and physiology, and a demonstrated record of research accomplishments. The successful candidate will develop an active research program involving graduate students (M.A. and Ph.D.), and excel in teaching. Applicants should submit a curriculum vitae, concise statements of teaching and research interests, up to three representative publications, and have three letters of reference sent to: **Dr. Steven L. Lima, Chair, Search Committee, Department of Life Sciences, Indiana State University, Terre Haute, IN 47809.** Further information is available at website: <http://biology.indstate.edu/dls/>. Screening begins December 6, 1997, continuing until the position is filled. *Applications from women and members of minorities are strongly encouraged. Affirmative Action/Equal Opportunity Employer.*

UNIVERSITY OF COPENHAGEN



Institute of Molecular Biology
**Postdoctoral
 Research Associate**
 In the area of Intracellular
 Signal Transduction

A postdoctoral position for 2 years is available as soon as possible for experimental work on calcium binding proteins using molecular biology and cell biology approaches. In particular functions of these proteins in intracellular signal transmission and homeostasis important for cell growth and death are investigated. Good knowledge in molecular and cell biology methods are required.

For further details concerning the project please contact Professor Martin W. Berchtold, +45 35 32 20 87 or e-mail: mabe@biobase.dk. For the full text of the announcement in English, including further information and specifications for applications, please contact: Head of the Institute of Molecular Biology, Jørgen Olsen by fax no. +45 35 32 21 28, or e-mail: jols@mermaid.molbio.ku.dk. The full text of the announcement can also be seen on the Institute's Homepage: <http://www.molbio.ku.dk>.

Applications should be sent to the Institute of Molecular Biology, University of Copenhagen, Øster Farimagsgade 2A, DK-1353 Copenhagen K.

The deadline for receipt of applications is December 1, 1997, noon.

UNIVERSITY OF COPENHAGEN

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STIFTELSEN UNIVERSITETSFORSKNING BERGEN

**Sars International Centre
 for Molecular Marine Biology
 Two Group Leaders**

The Sars International Centre for Molecular Marine Biology is a newly established independent research institute dedicated to basic research on marine organisms. The major sponsors of the Centre are the Research Council of Norway and the University of Bergen. The Centre is located in the modern facilities of the Bergen High Technology Centre, Bergen, Norway, together with three departments of the University of Bergen in the fields of molecular biology, biochemistry, and marine sciences.

The recruitment of scientific staff is international. The Centre will consist of six to seven research groups, each having a budget for six years which gives an average core work force of four to five persons. Space allows the accommodation of additional personnel on external funding. The groups will also use common laboratory personnel and facilities, including administrative support. The goal of the Centre is to house 70 to 80 persons on core funding and external grants.

The Sars International Centre is seeking to appoint two group leaders having a strong experience in molecular marine biology, or related fields. Candidates must be able to conduct independent research and lead a research group, based upon strong postdoctoral experiences. Preferences will be given to outstanding molecular biologists able to prepare and implement original proposals in basic research. Comparative investigations of the functions of marine animals (including invertebrates and protochordates) are encouraged, but applications in marine biology will also be considered. The remuneration is dependent upon experience and personal situation. The appointment is for six years.

Tentative starting time for the position is summer 1998.

For further information, see Internet homepage

<http://www.uib.no/fa/sars/> or contact:

Sars Centre Director General Dr. Daniel Chourrout (E-mail: Daniel.Chourrout@sars.uib.no, Phone: +47 55 58 43 13) or Head of Office Dr. Kjersti Birkeland (E-mail: Kjersti.Birkeland@sars.uib.no, Phone: +47 55 58 43 07).

Applications, including a full CV, list of publications, brief description of research interests, research proposal (5 pages) and the names of three referees should be sent to: **Sars International Centre for Molecular Marine Biology, Thormøhlensgt 55, N-5007 Bergen, Norway.**

Application deadline: December 15, 1997.

POSITIONS OPEN

Faculty position in psychobiology with emphasis on behavioral neuroscience. The Department of Psychology at Franklin & Marshall College announces a tenure-track position as **ASSISTANT PROFESSOR** in our research-oriented undergraduate department. Teaching load of five course involvements per year includes introductory psychology lab, team-taught core course in the physiological bases of mind and behavior, team-taught course in neuroscience, lecture course in area of specialty, and advanced research seminar. Some of these courses are included in the Biological Foundations of Behavior Program. The successful candidate will hold a Ph.D., present evidence of excellence in teaching and research, and have a strong interest in initiating and guiding student research. Deadline for receipt of applications is February 1, 1998. Send letter of application, curriculum vitae, graduate transcript, three letters of recommendation, and reprints/preprints to: **Terry R. Greene, Chair, Department of Psychology, Franklin & Marshall College, P.O. Box 3003, Lancaster, PA 17604-3003.** *Franklin & Marshall College is an Affirmative Action/Equal Employment Opportunity Employer.*

ASSISTANT PROFESSOR

Biology Department at the University of Michigan-Flint, a regional campus of 6,300 commuting students, seeks nominations and applications for tenure-track faculty position. Teaching responsibilities include courses in microbiology, immunology, and pathology, participation in teaching departmental core courses also expected, requiring a broad background in biology. Must be willing to actively involve undergraduate students in research. Requirements: Ph.D. by September, 1998, demonstrated teaching ability, commitment to undergraduate teaching and research, and an active research record.

Applications should include curriculum vitae, copies of transcripts, and brief summaries of research interests and teaching interests/teaching philosophy. Complete applications and three letters of recommendation should be received no later than January 15, 1998, by: **V. Sullivan, Biology Department, University of Michigan-Flint, 264 MSB, 303 East Kearsley Street, Flint, MI 48502-2186.** *A nondiscriminatory/Affirmative Action Employer. Women and minority candidates are encouraged to apply.*

EVOLUTIONARY BIOLOGIST UNIVERSITY OF COLORADO

The Department of Environmental, Population, and Organismic Biology invites applications for a tenure-track faculty position (**ASSISTANT PROFESSOR**) in any area of evolutionary biology. This position is distinct from, and in addition to, another position in evolutionary biology that we advertised earlier this year (19 September). Applicants should submit a curriculum vitae, the names and addresses of four referees, statements of research and teaching interests, and three to five representative publications to: **Dr. James Hanken, Department of Environmental, Population, and Organismic Biology, University of Colorado, Boulder, CO 80309-0334.** Applications must be postmarked no later than 2 January 1998. *The University of Colorado at Boulder is committed to diversity and equality in education and employment.*

Tenure-track agricultural journalism position available for fall 1998, possibly spring 1998. Teach undergraduate/graduate courses, conduct research, perform service. Qualifications and experience needed in agricultural journalism. Secondary teaching areas needed include advertising, history, international mass communication, new media, science/technology journalism. **ASSISTANT PROFESSOR** anticipated, but with right qualification and experience, we may be able to bump the rank up to **ASSOCIATE PROFESSOR**. Ph.D. required. Send letter of application, curriculum vitae, names and addresses of three references to: **Dr. Douglas Perret Starr, Chair, Journalism Search Committee, Department of Journalism, Texas A&M University, College Station, TX 77843-4111.** Telephone: 409-845-0048; FAX: 409-845-5408; e-mail: d-starr@tamu.edu. And check our website: <http://165.91.126.222>. *Texas A&M is an Equal Opportunity/Affirmative Action Employer.*

The Department of Biology, Facultad De Ciencias, Universidad De Chile, Santiago, Chile, seeks outstanding applicants to fill four positions at the rank of **INSTRUCTOR** or **ASSISTANT PROFESSOR**. For more details write to: **Dr. Osvaldo Alvarez, Chairman of the Department of Biology, FAX: 56-2-271-2983; e-mail: facbiol@abello.die.uchile.cl.**

POSITIONS OPEN

MacARTHUR AGRO-ECOLOGY RESEARCH CENTER

Archbold Biological Station seeks a **RESEARCH BIOLOGIST** to conduct ecosystems research at its MacArthur Agro-ecology Research Center, a 4,000-hectare cattle ranch in central Florida. Ongoing research in conjunction with University of Florida IFAS and the South Florida Water Management District examines the relationships between agricultural practices, wildlife, and water quality. The Research Biologist will be expected to establish a research program with a new emphasis on ecosystem processes. We need an individual who is enthusiastic about living and conducting research at a working ranch, and able to work with agricultural scientists, regulatory agencies, and cattle ranchers. Ph.D. and Postdoctoral or other experience required. Ability to seek outside funding and experience working in agricultural landscapes both a plus. Salary at entry-level **ASSISTANT PROFESSOR**, plus housing. More information at website: <http://www.archbold-station.org>. Applicants should submit curriculum vitae, letter of interest, and name, address, and e-mail of three references by January 5, 1998, to ensure full consideration. Send to: **Dr. Hilary M. Swain, Agro-ecology Search, Archbold Biological Station, Box 2057, Lake Placid, FL 33862.** E-mail: hswain@strato.net.

Archbold Biological Station is an Equal Opportunity Employer.

EVOLUTIONARY BEHAVIORAL ECOLOGY (RANK OPEN)

We are searching in the area of evolutionary behavioral ecology. We are particularly looking for candidates with strong field and/or laboratory components to their research. Specific research areas and taxa are open. The ideal candidate will interact closely with a faculty with strong quantitative and theoretical interests and will be expected to maintain vigorous research programs, train graduate students, and participate in undergraduate teaching. The search focuses at the Assistant Professor level but appointment at other levels is possible and senior applications will be considered.

Review of application files will begin 8 December 1997. To apply, please send curriculum vitae, a statement of research interests, reprints, and have three letters of recommendation forwarded to: **Animal Behavior Search Committee, Department of Ecology and Evolution, University of Chicago, 1101 East 57th Street, Chicago, IL 60637.** Website: <http://www2.uchicago.edu/bsd-eco-euo/>.

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

Tenure-track broadcast journalism position available for fall 1998, possibly spring 1998. Teach undergraduate/graduate courses, conduct research, perform service. Qualifications and experience needed in broadcast journalism. Secondary teaching areas needed include advertising, history, international mass communication, new media, science/technology journalism. **ASSISTANT PROFESSOR** anticipated, but with right qualification and experience, we may be able to bump the rank up to **ASSOCIATE PROFESSOR**. Ph.D. required. Send letter of application, curriculum vitae, names and addresses of three references to: **Dr. Douglas Perret Starr, Chair, Journalism Search Committee, Department of Journalism, Texas A&M University, College Station, TX 77843-4111.** Telephone: 409-845-0048; FAX: 409-845-5408; e-mail: d-starr@tamu.edu. And check our website: <http://165.91.126.222>. *Texas A&M is an Equal Opportunity/Affirmative Action Employer.*

The Department of Biology at Fairmont State College invites applications for a nine-month, tenure-track position at the **ASSISTANT PROFESSOR** level. Teaching responsibilities include invertebrate zoology, aquatic ecology, and principles of zoology for majors as well as introductory biology for non-majors. Candidates with postdoctoral, teaching, and computer experience are preferred. Anticipated starting salary will be \$32,000 to \$35,000. Submit letter of application, curriculum vitae, transcripts, and have three letters of reference sent to: **Dr. Albert Magro, Chairman, Division of Science, Mathematics, and Health Careers, Fairmont State College, Fairmont, WV 26554.** Review of applications will begin on January 1, 1998. For additional information, consult the FSC Home Page (website: <http://www.fairmont.wvnet.edu>). *Fairmont State College is an Equal Opportunity/Affirmative Action Institution. Women and minorities are encouraged to apply.*

POSITIONS OPEN

COLORADO STATE UNIVERSITY

DEPARTMENT HEAD: FOOD SCIENCE AND HUMAN NUTRITION. Position available in a highly recognized department offering B.S., M.S., and Ph.D. degrees with undergraduate programs in human nutrition and dietetics, food science and technology, and restaurant and resort management, and graduate programs in food science and nutrition (see website: <http://www.colostate.edu/Depts/FSHN/>). Required credentials include a Ph.D., M.D., or equivalent degree in a related discipline, qualification for appointment at the rank of Professor, and administrative experience is preferred. Application deadline is January 9, 1998, but the search may be extended if a suitable candidate is not identified. Position is available July 1, 1998. Contact: **Dr. Rick Ginsberg, FSHN Search Committee, College of Applied Human Sciences, Fort Collins, CO 80523.** Telephone: 970-491-6317; FAX: 970-491-1317. *Colorado State University is an Equal Employment Opportunity/Affirmative Action Employer.*

ENVIRONMENTAL STUDIES ASSISTANT PROFESSOR (POSSIBLY ASSOCIATE) Dartmouth College

We seek candidates with training in economic aspects of environmental issues and an interest in applying conceptual and analytical models to understanding interactions between humans, resources, and the environment. Position to begin in fall 1998. A Ph.D. (or near completion) is required in a relevant area such as: ecological, natural resource, or environmental economics; economic geography; or a related field. Submit curriculum vitae, statement of teaching and research interests, and three letters of reference to: **Dr. Ross A. Virginia, Chair—Search Committee, Environmental Studies Program, Dartmouth College, 6182 Steele Hall—Room 306, Hanover, NH 03755-3577.** FAX: 603-646-1682. Review of applications will begin on January 12, 1998. *Dartmouth College is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR. The Biology Department invites applications for a full-time, tenure-track position in the area of molecular/cell biology. Applicants should have an earned Ph.D.; be broadly trained in biology with the ability to teach introductory biology, cell biology, biochemistry, and a course in their discipline (e.g., microbiology or immunology); and have a strong commitment to undergraduate teaching. The successful candidate will be expected to participate in all departmental activities: advising, committee work, guiding undergraduate research. Faculty members wear uniforms and adhere to military customs but military experience is not required. The starting date for this position is August 1998. Applicants should send their curriculum vitae, statement of teaching and research interests, copies of transcripts, and three letters of recommendation to: **Dr. Richard A. Rowe, Chair, Biology Department, Virginia Military Institute, Lexington, VA 24450** by 30 January 1998. Additional information on VMI can be seen at website: <http://www.vmi.edu>. *VMI is an Equal Opportunity Employer.*

RESEARCH ASSOCIATE position available immediately to study the molecular mechanisms of the vertebrate retinal circadian clock. Research will focus on regulation of gene expression by the clock in *Xenopus* photoreceptors using cutting-edge transgenic technologies. Experience in molecular biology, biochemistry, or genetics is required. Qualified candidates should forward a letter of application, curriculum vitae, and names of three references to: **Dr. Carla Green, Department of Biology, University of Virginia, Charlottesville, VA 22903.** FAX: 804-982-5626; e-mail: cbg8b@virginia.edu. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSISTANT PROFESSOR position is available to work on signal transduction processes, emphasizing phospholipase A₂ activation. A Ph.D. with at least one year of postdoctoral experience is expected. Applicants will be expected to be familiar with molecular techniques. Candidates should submit a curriculum vitae, with a list of publications, and the names and addresses of three references to: **Dr. John S. Bomalaski, Rheumatology Research, Allegheny University Hospitals, 3300 Henry Avenue, Philadelphia, PA 19129.** FAX: 610-524-6384.

SR. HEALTH SCIENTISTS

API, the petroleum industry's leading trade association, is seeking two Sr. Health Scientists for its Health & Environmental Sciences Department. Both positions require an advanced degree (Ph.D. or equivalent) in a health or environmental discipline with 7+ years of experience in a health science setting. Experience managing projects related to environmental health, epidemiology, and public health issues desirable. Knowledge of federal health/environmental regulations, and a public policy orientation necessary. Excellent interpersonal and communication skills are essential.

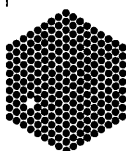
Sr. Health Scientist (Benzene)- Serve as science advisor and manage research related to benzene and air toxins, support assigned committees to prepare scientifically based comments, manage research, evaluate and assist in preparing comments and testimony on health based legislation/regulation, monitor relevant research from other organizations, and prepare scientific presentations for internal and external audiences.

Sr. Health Scientist- Participate in the science policy and public health arena, coordinate with committees to develop industry responses and policies, oversee research on public health issues, assist in the preparation of testimony and comments on health and environmental based legislation/regulations, and serve as technical and scientific resource to other API staff, the industry, and outside contacts.

API offers an outstanding salary and benefits package. Submit resume or C.V. with salary history to: HUMAN RESOURCES, HES-8



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**EMBL****GROUP LEADER POSITIONS**

The European Molecular Biology Laboratory, an international research organization with its headquarters laboratory housing several Research Programmes in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme at Monterotondo (Italy), announces vacancies for three Group Leaders to head independent research groups in Heidelberg:

**1. INTERDISCIPLINARY RESEARCH
GROUP LEADER (ref. 97/78)**

As a matter of scientific policy and practice, EMBL encourages science-driven interaction of groups both within and between Programmes. We are interested in candidates whose research record spans disciplines and who could potentially reinforce interactions between the Gene Expression Programme and any of the other three major biology programmes (Developmental Biology, Cell Biology, Structural Biology). Two of many possible subject areas include the structure and functional organisation of the nucleus, or RNA localisation coupled to translation regulation; but we emphasize that this is an open search. EMBL is a dynamic and collaborative institute, and we are looking for an excellent scientist who will take full advantage of this. Further information can be obtained from Iain Mattaj, Meyerhofstrasse 1, D-69117 Heidelberg (e-mail: mattaj@embl-heidelberg.de).

**2. GROUP LEADERS IN
DEVELOPMENTAL BIOLOGY (2) (ref. 97/79)**

The newly formed Developmental Biology Programme focuses on development and regulation in animals and animal cells. Current group leaders use genetics and biochemical/molecular methods to address questions of pattern formation, cell interactions, cell polarity, signal transduction, growth control and cell differentiation. Further information on research activities in the programme can be obtained from the EMBL web page (www.embl-heidelberg.de) or from Stephen Cohen, EMBL, Meyerhofstrasse 1, D-69117 Heidelberg (e-mail: scohen@embl-heidelberg.de), or Dirk Bohmann, EMBL, Meyerhofstrasse 1, D-69117 Heidelberg (e-mail: bohmann@embl-heidelberg.de).

Applicants should submit a curriculum vitae, with a concise description of research interests, and should arrange for three letters of recommendation to be sent to the Personnel Section, quoting the respective reference number.

Applications should be received no later than December 15th 1997.

EMBL is an inclusive, equal opportunity organization and encourages applications from women, minorities and nationals of currently underrepresented member states. The laboratory provides financial help in relocating families and excellent child care is available.

EMBL Personnel Section, Postfach 10.2209, D-69012 Heidelberg, Germany.

Clinical Research Coordinator

Theradex® is a leading pharmaceutical consulting firm specializing in complete, professional services for clinical research and development of pharmaceutical compounds and medical devices. Due to our continuing expansion, we are currently seeking qualified professionals to join our team in our Princeton, USA, London, UK and Sydney, Australia offices.

The successful candidates must be an M.D., Pharm.D., or Ph.D. with clinical oncology experience. Excellent communication and writing skills and the ability to interact positively with industry personnel, investigators and study staff is required. Your responsibilities will include monitoring clinical trials, data analysis, and writing interim and final study reports. Travel is required.

Theradex® offers an excellent compensation package which includes a comprehensive benefits package. Salary commensurate with experience. Qualified applicants should send their resumes and salary requirements to:



Attention: Personnel
CN 5257
Princeton, New Jersey 08543
FAX: 609-799-4148
E-Mail: personnel@theradex.com
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POSITIONS OPEN

RADIATION BIOLOGIST.

University of Vermont. A progressive Department of Biomedical Technologies, with programs in biomedical technology, medical laboratory science, nuclear medicine technology, and radiation therapy, seeks a highly motivated, full-time, tenure-track faculty member. You should have a strong interest in teaching undergraduate and graduate students, and the ability to establish an active research program. A doctorate in radiation biology, medical physics, nuclear physics, or a related science is required. Clinical experience in radiobiology and certification in a clinical radiology area are preferred. Burlington, on the shores of Lake Champlain and minutes from the Green Mountains, offers many cultural and recreational activities. Compensation is competitive. Starting date is July 1, 1998. Review of applications begins February 1, 1998, and will continue until the position is filled. Please send cover letter and curriculum vitae to: **Anne Huot, Search Committee Chair, The University of Vermont, 302 Rowell Building, Burlington, VT 05405.** *The University of Vermont is an Affirmative Action Employer. Women and minorities are encouraged to apply.*

BOSTON UNIVERSITY PROFESSOR IN NEUROBIOLOGY

The Biology Department seeks to appoint a tenured Professor in neurobiology. The successful applicant is expected to have an international reputation. He or she will play a central role in the recruitment of additional neurobiology faculty as part of the active expansion now taking place in the Biology Department and will contribute to the development of cross-disciplinary undergraduate and graduate neuroscience training programs. We are especially interested in candidates whose research will complement existing strengths in the department, including sensory physiology, neuroendocrinology, synaptic mechanisms, as well as neural development and plasticity. Please submit a curriculum vitae, representative reprints, and names of three referees to: **Dr. Michael J. Baum, Neurobiology Search Committee, Department of Biology, Boston University, Boston, MA 02215.** *Boston University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR VIROLOGY

Applications are invited for a tenure-track position in microbiology. Applicants must have a doctorate in microbiology or related field and postdoctoral experience in virology. Responsibilities will include establishing an independent research program, directing M.S. and Ph.D. students, and teaching undergraduate and graduate courses, including the ability to teach virology and molecular or cell biology. Appointment begins in August, 1998. Review of completed applications will begin February 16 and continue until the position is filled. Send curriculum vitae, a statement of research goals, and three letters of reference to: **Dr. Mary Woodworth, Chair, Department of Microbiology, Miami University, Oxford, OH 45056.** E-mail: woodwome@muohio.edu. *Miami University is an Equal Opportunity/Affirmative Action Employer.*

PROTEIN CRYSTALLOGRAPHY POSITION

A RESEARCH ASSOCIATE position is available on January 1, 1998, for qualified candidates with experience in protein crystallography. Structural studies will focus on membrane receptors and receptor-ligand interactions. Excellent biochemical, crystallography, and computational facilities are available in the Center for Advanced Biomedical Research at Boston University School of Medicine.

Send curriculum vitae and two letters to: **Dr. G. Graham Shipley, Department of Biophysics, Boston University School of Medicine, 715 Albany Street, W302, Boston, MA 02118-2526.**

Howard University, ASSISTANT PROFESSOR positions in analytical and physical chemistry. Outstanding applications in other areas will be considered. Targeted areas include surface, interfacial, polymer, atmospheric, and laser chemistry. Applications should include a résumé and a brief statement of proposed research. Application and three letters of recommendation to: **Search Committee, Department of Chemistry, Howard University, Washington, DC 20059.** Evaluation of applicants will begin December 15, 1997, and continue until suitable candidates have been found. *Howard University is an Equal Opportunity Employer.*

POSITIONS OPEN



**Agricultural
Research
Service** United States
Department of
Agriculture

The USDA, Agricultural Research Service, Meat Science Research Laboratory, Beltsville, Maryland, is seeking a **MICROBIOLOGIST**, GS-11/12, salary range is \$38,330 to \$59,725. The scientist will be responsible for conducting basic and applied research in the area of microbiology to determine the success of newly emerging technologies (e.g., Hydrodyne process) at reducing or eliminating microorganisms (especially pathogens) associated with meat; and for developing companion preservation and processing procedures necessary to reduce microorganisms. Pathogen reduction is one of the highest priority food safety programs of the USDA.

A degree in microbiology or related subject matter is required. Candidates must have professional knowledge of the life processes and characteristics of microorganisms; knowledge of the role of microorganisms as pathogenic agents; knowledge of food and meat science; skill in scientific microbiological methods, procedures, and techniques; and skill in conducting and publishing microbiological research.

For information on the research program, contact: **Morse B. Solomon, Research Leader, Telephone: 301-504-8400; e-mail: msolomon@ggpl.arsusda.gov.** Applicants must request a copy of vacancy announcement number ARS-D8B 024 and application packet by calling **Telephone: 301-344-4638.** Applications must be postmarked by December 15, 1997. *USDA/ARS is an Equal Opportunity Employer.*

MOLECULAR MECHANISMS OF BIRTH DEFECTS POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE

Positions available to investigate molecular, molecular genetic, and/or cellular signal transduction mechanisms of craniofacial defects. Particular emphasis directed toward clarification of interactions among growth factors, protein kinases, and transcription factors in regulating gene expression and cell differentiation during normal and abnormal mammalian embryonic development. Background in molecular/molecular genetic methodologies, cell and/or developmental biology required. Applicants should submit: curriculum vitae, a statement of current research activities, and names of three references to: **Dr. Robert Greene, Laboratory of Molecular Craniofacial Development, Department of Biological and Biophysical Sciences, School of Dentistry, University of Louisville, 501 South Preston Street, Louisville, KY 40292.** *The University of Louisville is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

RESEARCH SCIENTIST

Research Scientist position available immediately in the Musculoskeletal Research Center in the Department of Orthopaedic Surgery. Research emphasis is on characterization, mechanisms, and treatment of disorders of bone, cartilage, tendon, or muscle. Qualifications include recent Ph.D. and/or completion of Postdoctoral Fellowship with experience in molecular biology, protein biochemistry, cell biology, and/or immunology. Work will be extended to human tissues. Three-year funding is available with the potential for a tenure-track academic appointment at New York University School of Medicine. Candidates should send curriculum vitae and three letters of reference to:

**Dr. Paul E. Di Cesare
Director, Musculoskeletal Research Center
Department of Orthopaedic Surgery
Hospital for Joint Diseases
301 East 17th Street
New York, NY 10003**

ASSISTANT PROFESSOR

Opening for Assistant Professor in molecular biology. Successful candidate will have training in gene therapy. Requirements include experience in retro- or adeno-associated viral vector construction for *in vivo* gene transfer and *in vitro* gene transfer techniques in mammalian cells, good publications record. Must be able to write grants. Salary and benefits competitive. Send résumé, cover letter, and the names of three references to: **Ms. C. Farrell, P.O. Box 7210, Loma Linda, CA 92354.**

POSITIONS OPEN

GEN-PROBE

Gen-Probe, a pioneering leader in DNA probe-based diagnostics, is currently seeking the following highly motivated professionals:

RESEARCH SCIENTIST

Will play a key role in current research projects related to hybridization, amplification, and detection. Position requires a Ph.D. in chemistry or biochemistry with a minimum of one to three years of related experience. Proficiency in nucleic acid chemistry and in nucleic acid polymerases strongly preferred. Molecular modeling and computer expertise a plus. (Ref. #97/81)

SCIENTIST/SENIOR SCIENTIST

Working within our product development group, the candidate will plan, conduct, and evaluate experiments, and document procedures and data to develop tests for detection of viruses. Position requires a Ph.D. in biochemistry, molecular biology, or microbiology with a minimum two years of postdoctoral work, or an M.S. and at least eight years of relevant laboratory experience. Will also have a background in infectious agents, extensive experience in isolation and manipulation of nucleic acids, and in sequence analysis. Industrial experience in product and instrumentation development and with CBER regulations is highly preferred. (Ref. #97/109)

Gen-Probe offers dedicated professionals challenging opportunities within a fast-paced corporate environment. Candidates should send résumés to: **Gen-Probe Incorporated, Human Resources Department (Ref. #), 10210 Genetic Center Drive, San Diego, CA 92121. FAX: 619-410-8001.** Please call our job line at **Telephone: 619-410-8020** or visit our website: www.gen-probe.com. *Gen-Probe supports a drug-free work environment.*

OTS LA SELVA BIOLOGICAL STATION

The Organization for Tropical Studies (OTS) announces openings for a full-time **ADMINISTRATOR** and a half-time **SCIENTIFIC DIRECTOR** at its La Selva Biological Station in northeastern Costa Rica. La Selva is a multi-use, easily accessible field station in a well-known tropical rainforest that attracts a broad range of researchers and education groups. See our website: <http://www.ots.duke.edu>.

The La Selva Administrator is responsible for the management of the field station, including personnel, accommodations, budget, marketing, physical plant, and infrastructure. Minimum five years of experience in scientific and/or hotel administration, with relevant graduate degree and fluency in English and Spanish.

The La Selva Scientific Director is responsible for scientific oversight and coordination of services to education and research users, talks on La Selva and its science, writing scientific reports and proposals in Spanish and English, coordinating review of research proposals, and maintains liaison with the Costa Rican and international scientific community. Ph.D. required; tropical experience preferred. This half-time position is based at La Selva; the other half-time is available for research. Term appointment for one to two years, renewable; sabbatical appointments invited.

Candidates combining the requisites for these two positions will also be considered, with appropriate restructuring of the job description to be negotiated.

Send letter of application, curriculum vitae, and contact information including e-mail addresses for three references to: **Dr. Charles Schnell, Associate Executive Director, OTS, Box 90630, Durham, NC 27708-0630.** *An Equal Opportunity/Affirmative Action Employer.*

MICROBIOLOGIST

InterLink Associates Inc. has an immediate vacancy for a Microbiologist/Mycologist to join an expanding microbial isolation group in Auburn, California. The candidate should have a B.S. (graduate degree preferred) and sufficient experience in industrial strain isolation methodology to take responsibility for isolation and characterization of fungi and other microbes from soil and plant sources.

InterLink provides unusual microorganisms and microbial extracts to discovery research groups in the pharmaceutical, agrochemical, specialty chemical, feed, and food industries. The laboratory is located near Sacramento in the foothills of the Sierra, with ready access to skiing, hiking, etc. in the Lake Tahoe area and convenient travel to the San Francisco bay area. InterLink offers competitive salaries and a generous benefits package. Candidates should send a curriculum vitae to: **InterLink Associates Inc., 11930 Heritage Oak Place, Suite 4, Auburn, CA 95603.**



For its Department of microengineering, the Swiss Federal Institute of Technology Lausanne (EPFL) invites applications for a full professor position:

PROFESSOR IN BIOMEDICAL OPTICS

Applicants should have a university education in science or engineering, several years of recent research and developmental experience in the field of biomedical photonics, and well established collaborations with medical research groups. Priority will be given to candidates who can give evidence of original and creative activity in the industrial or academic sphere and who are ready to develop and maintain collaboration with industries. The candidate should possess good leadership as well as a marked interest and talent for teaching at the undergraduate and graduate level. In particular, he/she should have a personal vision in his/her field and enjoy to be a mentor to students and young researchers.

Deadline for applications: February 15, 1998.

Start date: as mutually convenient

Applications from women are particularly welcome.

For further information, please write to:

Présidence de l'Ecole polytechnique fédérale de Lausanne, CE-Ecubiens, CH 1015 Lausanne, Suisse



Assistant Professor/ Lecturer in Biochemistry

Applications are invited for appointment as Assistant Professor/Lecturer (up to 4 posts) in the Department of Biochemistry (RF-97/98-4), tenable from as soon as possible, subject to availability of funding. Appointment will initially be made on a fixed-term basis of three years, with a possibility of renewal.

Applicants must possess a Ph.D. and postdoctoral experience in any area of Biochemistry/Molecular Biology, and an excellent record of published research. Preference may be given to those with a strong potential to extend and complement current research areas of the Department: signal transduction, molecular embryology, developmental genetics, developmental immunology, cell-matrix interactions, neurochemistry and molecular genetics. Appointees will be expected to develop an active research programme and to contribute to both undergraduate and postgraduate teaching programmes of the Department.

The Department has excellent research facilities and coordinates the activities of the Medical Faculty's Transgenic Centre. Besides offering B.Sc. degree courses in Biochemistry and teaching extensively in the MB., B.S. and B.D.S. curricula, the Department contributes to the B.Nursing as well as the M. Medical Sciences teaching programmes. Postgraduate training is also offered, leading to the Ph.D. and M.Phil degrees. Currently 40 postgraduate students are enrolled.

Annual salaries [attracting 15% (taxable) terminal gratuity] are on the following scales, with starting salary depending on qualifications and experience: Assistant Professor (in the grade of Lecturer): HK\$522,780 - HK\$873,360 (11 points)* (approx. US\$67,516 - US\$112,793) Lecturer (in the grade of Assistant Lecturer): HK\$380,760 - HK\$487,320 (4 points) (approx. US\$49,174 - US\$62,936) (US Dollar equivalent as at October 28, 1997)

*An Assistant Professor with an annual salary at HK\$698,520 or above may be considered for the award of the title of Associate Professor.

At current rates, salaries tax will not exceed 15% of gross income. Leave, medical benefits, an allowance for children's education in Hong Kong, and, in most cases, a rental allowance are provided, the last at a charge of a percentage of salary, currently 7.5%.

Further particulars and application forms can be obtained on WWW at <http://www.hku.hk>; or from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (Fax (852) 2540 6735 or 2559 2058; E-mail: APPTUNIT@REG.HKU.HK). Further information on the Department may be found at <http://www.hku.hk> or E-mail: biochem@hkusua.hku.hk. Closes **5 December 1997**.

The University is an equal opportunity employer and is working towards a smoke-free environment

GLOBAL REACH LOCAL IMPACT

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POSITIONS OPEN

BIOTRANSPLANT, INC.

We are seeking experienced individuals to join our efforts in the development of clinically appropriate methods to induce specific immune tolerance to organ grafts, in order to enhance the success of organ transplantation.

SENIOR SCIENTIST/ ASSOCIATE DIRECTOR HEMATOLOGY

We are seeking an individual with expertise in experimental hematology to provide leadership in research areas including engraftment of hematopoietic progenitors and retroviral transduction. Experience with mobilized peripheral blood stem cells is also desirable. The individual should have a Ph.D. or M.D. degree with at least four years of relevant experience. Supervisory experience and strong communication skills required.

ANIMAL TECHNOLOGIST/ MICROSURGERY

We are seeking an individual with experience in mouse vascular microsurgery. Experience should include a B.S. with at least four years or an M.S. with two years of experience in vascular microsurgery, including transplantation, in mice. A background in immunology is preferred. Candidate should also have strong communication skills.

You'll enjoy a professionally stimulating environment and a competitive compensation package. Send your résumé to: **Human Resources, BioTransplant, Inc., Building 75, 3rd Avenue, Charlestown Navy Yard, Charlestown, MA 02129.** We are an Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL BIOLOGIST

The University of Southern Indiana invites applications for a tenure-track position as **ASSISTANT PROFESSOR** in biology to begin August 1998. The position is for a Developmental Biologist with interests and expertise in one or more of the following: histology, invertebrate zoology, neurobiology, chordate anatomy, or cell biology. Candidate should be dedicated to quality undergraduate teaching and research involving students. Ph.D. in a related area of biology required. Limited institutional funds and space for research are available on a competitive basis. Externally funded research is encouraged. The University is committed to excellence in teaching, scholarship and professional activity, and service to the University and the community. Review of applications will begin December 31, 1997, but applications will be accepted until the position is filled. Submit letter of application including statements of teaching philosophy and research goals; curriculum vitae; and names, addresses, e-mail addresses, and telephone numbers of three professional references to: **Dr. Jackson L. Marr, Biology Department Chair, University of Southern Indiana, 8600 University Boulevard, Evansville, IN 47712.** Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

The United States Department of Agriculture, Agricultural Research Service, is seeking a **MICROBIOLOGIST** to join a team of scientists to develop biology-based alternatives to the use of methyl bromide to fumigate soils and provide U.S. vegetable producers with economic and highly effective means to control diseases, nematodes, and weeds. The research team will consist of a Plant Pathologist, Weed Scientist, Soil Ecologist, and Soil Microbiologist and will identify and develop novel methods that are biologically sound and which pose minimal hazards to the environment, endangered species, producers, and consumers. We are currently seeking a permanent full-time Microbiologist to characterize soil microbes which impact plant health and restrict ability of soil-borne pests to affect crops. These positions will be located in a new laboratory under construction in Ft. Pierce, Florida. Candidates must be U.S. citizens and must address and meet specific qualification requirements defined in the vacancy announcement. To request a copy of the vacancy announcement and application packet, call **Elaine Billy, Telephone: 407-897-7312.** Applications submitted in response to this advertisement must include announcement number **ARS-D8S-8024**, must be postmarked by December 22, 1997, and mailed to: **USDA, ARS, HRD, Southern Operations Branch, 6305 Ivy Lane, Room 372, Greenbelt, MD 20770.** USDA/ARS is an Equal Opportunity Employer.

POSITIONS OPEN



COGNETIX, INC. Ph.D. POSITIONS IN DRUG DISCOVERY RESEARCH

Cognetix, Inc. is a rapidly growing Salt Lake City, Utah based biopharmaceutical company focused on the development of therapeutics from marine natural products for central nervous system, cardiovascular, and systemic disorders. We are seeking creative and motivated individuals to join our research effort.

SENIOR RESEARCH SCIENTIST, PHARMACOLOGY

The successful candidate will have a Ph.D. in pharmacology and strong background in both *in vivo* pharmacological and *in vitro* biochemical evaluation of novel therapeutic compounds. Excellent knowledge in drug-receptor interactions, receptor binding, second messenger systems, mechanism of drug action, animal surgical techniques, and animal behavior models of disease is essential. Experience in using analytical techniques, HPLC, and computer graphics is highly desirable. Exceptional communication, organizational, and teamwork skills are required. The position requires two-plus years of industrial or postdoctoral experience. Candidates with several years of experience are also encouraged to apply. Job # CGX-97-1102.

SENIOR RESEARCH SCIENTIST, MOLECULAR BIOLOGY

The successful candidate will have a Ph.D. in molecular biology/pharmacology and strong background in neurotransmitter receptors and ion channels, cloning and expression, PCR techniques, and the use of genomic information to aid in the process of drug discovery and development. Experience with peptides, cellular, biochemical, and immunochemical methods is essential. Excellent communication, organizational skills, and the ability to work as part of an interdisciplinary team is required. The position requires two-plus years of industrial or postdoctoral experience. Job # CGX-97-1103.

We offer a highly competitive salary and full benefits package. Specify job number and send or FAX résumé before December 15 to: **Cognetix, Inc. Human Resources, 421 Wakara Way, Suite 201, Salt Lake City, UT 84108.** FAX: 801-581-9555.

USV LIMITED MOLECULAR BIOLOGISTS MOLECULAR MEDICINE RESEARCH LABORATORY

Applications are invited for Scientists, Ph.D. (eight years), research experience, for our recently established research laboratory. Successful applicants will integrate with our broadly based team of scientists for our recombinant section, and clinical diagnostics section.

Applicant should submit a curriculum vitae, a brief statement of research interests, copies of recent publications, and two references to: **Dr. S. Mishra, Molecular Medicine Research Laboratory, USV Limited, B.S.D. Marg, Govandi, Mumbai-400088, India.** Telephone: 91-22-5564048/49/50/51; FAX: 91-22-5515608. USV Limited is a research-led institution and is an Affirmative Action/Equal Opportunity Employer. Complete applications should be received before January 20th, 1998.

ASSISTANT PROFESSOR TERRESTRIAL PLANT ECOLOGY

Applicants should have a demonstrated ability or potential to effectively instruct undergraduate and graduate students (including K-12 teacher preparation), to incorporate GIS and other technology into teaching, and to develop a research program with undergraduate and graduate students. Begins fall 1998. Ph.D. in biology and at least one year of postdoctoral experience required. To assure fullest consideration all application material should be received by December 15; however, position will remain open until filled. Position subject to final authorization. Visit website: http://www.csusm.edu.A_S/Biology. Send curriculum vitae, three letters of reference, and statements of teaching and research interests to: **Biology Search, Biological Sciences, California State University, San Marcos, CA 92096.** Affirmative Action/Equal Employment Opportunity/Title IX.

POSITIONS OPEN

CHILDREN'S HOSPITAL OF PHILADELPHIA AND DEPARTMENT OF PEDIATRICS OF University of Pennsylvania School of Medicine

Our research institute currently holds almost \$40,000,000 per year in extramural research support, and occupies a modern, 400,000 square foot research building adjacent to the laboratories of the School of Medicine. We are actively involved in development of arrays and other modern technologies for efficient DNA analysis, and plan to recruit several additional M.D. or M.D.-Ph.D. faculty with technical or informatic expertise and research programs that fit into this general area. Appointments will be tenure-track, and may be at the **ASSISTANT, ASSOCIATE, or FULL PROFESSORIAL** level. Interested candidates should send a curriculum vitae, a cover letter describing your direction of research, and the names and addresses of four potential evaluators, to: **David Pleasure, M.D., Joseph Stokes, Jr., Research Institute, 5th Floor, Abramson Research Building, Children's Hospital of Philadelphia, Philadelphia, PA 19104.**

The Children's Hospital of Philadelphia and The University of Pennsylvania are Affirmative Action/Equal Opportunity Employers.

DIRECTOR OF ANIMAL TRANSGENICS FACILITY DEPARTMENT OF DAIRY AND ANIMAL SCIENCE Penn State University

As part of its expanding emphasis on education and research in the biological sciences, the University is creating a state-of-the-art transgenic facility and is seeking an experienced Molecular Biologist with expertise in animal transgenic research. This is a continuing non-tenure-track faculty research appointment. The candidate we are seeking will collaborate with an expanding group of faculty studying various aspects of the biology of growth, lactation facility, supervise this centralized university facility, and participate in discovery research. A Ph.D. in biological science with postdoctoral training emphasizing production of transgenic animals for research and development is required. Excellent research facilities and a very competitive benefits package are available. Send curriculum vitae, a brief statement of interest and vision for the facility (two pages or less), and the names, addresses (surface and e-mail), and telephone numbers of three to five references to: **Dr. Terry D. Etherton, Chair, Search Committee, Department of Dairy and Animal Science, Department Y, The Pennsylvania State University, 324 William L. Henning Building, University Park, PA 16802.** Telephone: 814-863-0658; FAX: 814-865-7442; e-mail: tetherton@das.cas.psu.edu. Review commences December 15, 1997, and will continue until position is filled. Affirmative Action/Equal Opportunity Employer.

PLANT BIOLOGIST

Iowa State University, Department of Botany invites applications for a tenure-track faculty position at the **ASSISTANT** level. Applications will be accepted from individuals with research interests in functional, evolutionary, and/or developmental aspects of plant form and structure. The successful candidate will be expected to establish a competitive research program and to contribute to graduate and undergraduate teaching, including teaching a course in plant anatomy. The Botany Department has active, collaborative research groups in physiology/genetics/molecular biology, systematics/evolution, and ecology. In addition there are over 200 Plant Biologists housed in 11 departments at Iowa State. For further information about Iowa State University, the Botany Department, and graduate programs see website: <http://www.public.iastate.edu/~botany.homepage.html> or contact e-mail: rwallace@iastate.edu. Candidates should send a curriculum vitae, statements of research and teaching interests, selected reprints, and arrange for three letters of recommendation to be sent to: **Dr. Robert S. Wallace, Search Committee Chair, Department of Botany, Iowa State University, Ames, IA 50011-1020** by December 15th, 1997. Iowa State University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.

BURROUGHS WELLCOME FUND

Up to \$2.5 million to develop training programs that bring the physical, chemical, and computational sciences closer to the biological sciences

Open to U.S. and Canadian institutions

*Application deadline:
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BWF is an independent private foundation established to advance the medical sciences by supporting research and other scientific and educational activities.

4709 Creekstone Dr., Suite 100
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Tel: (919) 991-5100 Fax: (919) 941-5884
E-mail: mailback@bwfund.org

FUNDING OPPORTUNITIES

INTERFACES BETWEEN THE PHYSICAL/CHEMICAL/ COMPUTATIONAL SCIENCES AND THE BIOLOGICAL SCIENCES

BWF will make five-year grants of \$350,000 to \$500,000 per year to four to six degree-granting institutions to support the development of interdisciplinary training programs for graduate and postdoctoral students coming from quantitative and theoretical backgrounds so they can bring different approaches and new ideas into the biological arena.

This program continues BWF's initiative, begun in 1996, to help institutions break down the traditional academic barriers and draw the physical, chemical, and computational sciences closer to the biological sciences. The program is not intended to introduce more students into the research system, but to promote a different kind of training and a change in institutional behavior. Emphasis will be on supporting new or existing programs that will change graduate and postdoctoral training in a meaningful way, as opposed to programs seeking funding for conventional activities already under way.

Institutions are invited to propose graduate or postdoctoral training programs, or a combination of both. (Several affiliate organizations within an institution may join together to apply, and consortia representing several institutions also are eligible.) Ancillary activities—such as undergraduate student research programs, faculty seed grants, or invited lectures—may be included in the proposal. However, the program's emphasis is on promoting the training and research activities of graduate and postdoctoral students, rather than on supporting faculty research projects.

Program information is available on BWF's website at <http://www.bwfund.org>

SUMMER WORKSHOP

1998 Complex Systems Summer School
May 31–June 26
in Santa Fe, New Mexico, U.S.A.

An intensive introduction to complex behavior in mathematical, physical, and living systems. Group and individual research projects. Computer laboratory. Further information at: <http://www.santafe.edu/sfi/education/summer-school.html> or summerschool@santafe.edu

Planned for graduate students and postdoctoral fellows, the school accepts a limited number of professionals. Tuition is waived for students and postdocs who are expected to attend for the full month; \$750/week for professionals.

Lynn Nadel (Psychology) and **Daniel Stein** (Physics), University of Arizona, Co-Directors. Faculty drawn from universities nationwide. Administered by the Santa Fe Institute.

Application instructions: Provide a current résumé with publications list; statement of current research interests; comments about why you want to attend school; and two letters of recommendation from scientists who know your work. Include your e-mail address and fax number. Send only complete application packages by postal mail to:

Summer School, Santa Fe Institute, 1399
Hyde Park Road, Santa Fe, New Mexico,
87501 U.S.A. (505) 984-8800 Ext. 235 (V);
(505) 982-0565 (Fax). February 2, 1998 deadline.
Incomplete applications will not be considered.

Women and Minorities are encouraged to apply.

GLOBAL CAREER OPPORTUNITIES

I Microbiology

Lecturer, Tenurable, Gold Coast Campus

Vacancy Reference Number: HTH6072/97

The School of Health Science wishes to appoint a Lecturer who will contribute to teaching and research in Microbiology and Infectious Disease. Successful applicants will be expected to undertake research and postgraduate supervision in areas which may include: molecular pathogenesis, clinical microbiology and/or molecular epidemiology.

Remuneration: A\$45,625 to A\$54,181 per annum

Further Information: Before submitting an application, information on the application process, duty statement, selection criteria and other general information should be obtained from the University's Positions Available Internet address: <http://www.gu.edu.au/jobs/> or contact Mrs Natalie Pomerence, telephone +61 7 3875 5340, facsimile +61 7 3875 5114, email N.Pomerence@hbs.gu.edu.au

Applications Close: 5 December 1997.

Griffith University is committed to the achievement of a diverse workforce, and encourages applications from women, Indigenous Australians, people with disabilities and people from non-English speaking backgrounds.



GRIFFITH UNIVERSITY

LEADING THROUGH INNOVATION

TMP 093986

POSITIONS OPEN

PLANT MOLECULAR BIOLOGIST/VIROLOGIST

Calgene, a wholly owned subsidiary of Monsanto Company, is a leading agricultural biotechnology company which is developing and producing high-value, genetically engineered plant crops.

As part of a multidisciplinary team of Molecular Biologists and Plant Breeders, you will assist in engineering crop plants for multiple virus resistance. This will include designing and preparing expression constructs for plant transformation, analyzing transgenic plants, and performing virus resistance screens in growth chambers and in the field.

Candidates must have a B.S. degree and at least five to seven years of relevant experience in plant molecular biology and plant virology, or an M.S. degree in virology, plant pathology, or plant molecular biology. Individuals with a strong background in molecular virology preferred. You must be familiar with published literature in the field.

Calgene is proud to offer competitive wages and a comprehensive benefits package. For immediate consideration, send your letter of interest and résumé to: **Calgene, 1920 Fifth Street, Davis, CA 95616, Attn: Human Resources. FAX: 916-753-1510.** Find out more at website: www.calgene.com. *Equal Opportunity Employer/Minority/Females/Disabled/Veterans.*

POSTDOCTORAL POSITIONS

Cedars-Sinai Medical Center, a UCLA School of Medicine affiliate, offers exciting Postdoctoral opportunities:

Gene therapy and vascular biology. Available immediately to study molecular genetic approaches to inhibit and prevent atherosclerosis. Ph.D. or equivalent degree in biochemistry, molecular biology, or genetics required. Candidates should have a strong background in molecular biology, preferably including experience with gene delivery systems, cell transfection, and transgenic technologies. Position #1970661-NI.

Rheumatology. Conduct research on molecular immunological pathways of autoimmune diseases, perform experiments, analyze data and prepare scientific publications. Ph.D. in a biomedical science, preferably in molecular immunology required. Must have hands-on experience in cell culture and molecular biology. Position #1970626-NI.

Please identify position of interest and send curriculum vitae with three references to: **N. Ishioka, Employee Relations, Cedars-Sinai Medical Center, 8723 Alden Drive, SSB-110, Los Angeles, CA 90048. FAX: 310-652-0415.**

A POSTDOCTORAL FELLOWSHIP is available in the Division of Sleep and Chronobiology, Department of Psychiatry, at the University of Pennsylvania School of Medicine. The fellowship involves basic human research on funded projects involving various aspects of sleep deprivation, chronobiology, neuroendocrine, neuroimmune, and neurobehavioral functions (EEG, neurocognitive performance). Applicants must have or be completing their Ph.D., and/or M.D. with prior training in research, preferably with experience in sleep and chronobiology. Please send curriculum vitae and three names of reference to:

David F. Dinges, Ph.D.
Chief, Division of Sleep and Chronobiology
Department of Psychiatry
University of Pennsylvania School of Medicine
Room 1013, 423 Guardian Drive
Philadelphia, PA 19104-6021

The University of Pennsylvania is an Equal Opportunity Employer.

PART-TIME MICROSCOPE SALES/SCIENTISTS

Manufacturer of a new, high-resolution optical 3-D microscope seeks Microscopists with discretionary time interested in supplementing income through equipment sales and application development. Ideal candidate will continue to perform research in a discipline benefiting from 3-D analysis. Compensation based on ability to develop and publish new applications for technology and to assist in sales of microscopes to other scientists.

Send résumé to:

InGen Corporation
235 Montgomery Street
Suite 300
San Francisco, CA 94104

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITIONS

Environmental Health Sciences Center of the Environmental and Occupational Health Sciences Institute (EOHSI) at the University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School, and Rutgers, The State University of New Jersey. Several positions, funded by research grants, are available to pursue research in the following areas: biochemical pharmacology/toxicology; cellular toxicity of chemical mixtures; developmental neurotoxicology; developmental toxicology; dietary chemicals and cancer prevention; environmental health; environmental health effects; exposure assessment and measurement; molecular mechanisms of P450 regulation; molecular toxicology; neurotoxicology; polymorphism of xenobiotic metabolism and DNA repair genes. For more information send a letter of interest specifying one or more of the above research areas, along with a curriculum vitae and three references to: **Mrs. Maudie Louise Woods, Environmental and Occupational Health Sciences Institute, 681 Frelinghuysen Road, Room 410, Piscataway, NJ 08854. FAX: 732-445-4161; e-mail: woods@eohsi.rutgers.edu. UMDNJ/Rutgers University/EOHSI are Affirmative Action/Equal Opportunity Employers.**

CONSERVATION BIOLOGIST

The Point Reyes Bird Observatory (PRBO), a nonprofit conservation and research organization, seeks a Conservation Biologist/Landscape Ecologist to develop a conservation-oriented applied research program on birds and their habitats. Responsibilities: development of projects related to habitat issues and ecosystem management, scientific leadership in PRBO's riparian and wetland habitat conservation efforts, and collaboration with other PRBO programs. Requirements: Ph.D., experience in conservation issues at a landscape scale, GIS, population studies of birds. Submit a letter of interest, curriculum vitae, copies of recent publications, and reference list to: **Dr. Daniel Evans, Director, PRBO, 4990 Shoreline Highway, Stinson Beach, CA 94970 by January 7, 1998. PRBO encourages women and minorities to apply.**

POSTDOCTORAL POSITION available to study molecular and cellular aspects of microtubule motor proteins and endocytosis. Ph.D. degree required; experience in molecular biology, biochemistry, and/or cell biology desirable. Further information may be obtained at website: <http://www.ummed.edu/dept/cellbio/vallee.html>, or website: <http://www.wfbr.edu/www/people/vallee.html>. Send curriculum vitae to: **Dr. Richard Vallee, Worcester Foundation for Biomedical Research, 222 Maple Avenue, Shrewsbury, MA 01545. E-mail: vallee@sci.wfbr.edu. The Worcester Foundation is an affiliate of the University of Massachusetts Medical Center, an Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to generate novel recombinant toxins, monoclonal antibodies, immunogens, and immunoconjugates for use in cancer therapy. Experience and self-sufficiency in cloning and expression technology are essential. We have all *in vitro* assays, animal models, and clinical contacts set up here. Position is for three years. Please send curriculum vitae and list of three references to: **Dr. E. Vitetta, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-8576. E-mail: evitett@mednet.swmed.edu; FAX: 214-648-1204. UT Southwestern is an Equal Opportunity Institution.**

POSTDOCTORAL POSITION available immediately to study the catalytic mechanism of group II intron self-splicing. Candidates should have experience with the techniques used in molecular biology and biochemistry. Preference will be given to candidates with experience in the RNA field. Send curriculum vitae and the names of three references to: **Kevin Jarrell, Ph.D., Boston University School of Medicine, Pharmacology, 80 East Concord Street, Boston, MA 02118. E-mail: jarrell@bu.edu.**

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION HIV IMMUNOPATHOGENESIS University of Pennsylvania

Position available in the Division of Infectious Diseases. Send curriculum vitae to: **Dr. Drew Weissman, University of Pennsylvania, 536 Johnson Pavillion, Philadelphia, PA 19104. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

PHYSIOLOGICAL ECOLOGIST

The Department of Biological Sciences, University of South Carolina invites applications for a tenure-track position in experimental physiological ecology, using any model system or approach. The successful candidate will be expected to develop a vigorous, externally funded research program and teach at the undergraduate and graduate levels. Although the Department is primarily interested in junior-level candidates, senior individuals with exceptional qualifications will be considered. Applicants should forward their curriculum vitae, reprints of three publications, statements of research and teaching interests, and three letters of reference to: **Dr. David Lincoln, Physiological Ecology Search, Department of Biological Sciences, 701 Sumter Street, University of South Carolina, Columbia, SC 29208.** Applications will be reviewed starting on December 15, 1997. Departmental information may be obtained at website: <http://zebra.biol.sc.edu/biology>. *The University of South Carolina is an Affirmative Action/Equal Opportunity Employer.*

MICROBIOLOGIST

The Department of Biology invites applications for a tenure-track ASSISTANT PROFESSORSHIP from candidates committed to excellence in research and teaching at introductory and advanced levels. Successful applicants must have a Ph.D. degree; preference will be given to applicants with postdoctoral experience. Applicants will be expected to teach courses for students in pre-nursing and allied health programs and upper-level/graduate courses to complement existing course offerings. The successful candidate will be expected to develop an externally funded research program. Submit curriculum vitae, reprints, statement of research interests, and three letters of recommendation to: **Dr. Frank Paladino, Chair, Department of Biology, Indiana University-Purdue University, Fort Wayne, Fort Wayne, IN 46805-1499 by January 15, 1998. E-mail: paladino@ipfw.edu. An Affirmative Action/Equal Opportunity Employer.**

A POSTDOCTORAL RESEARCH POSITION is available immediately for the isolation and characterization of novel plant promoters. Applicants should possess a doctoral degree in botany, molecular biology, or a related field, and have documented skills and extensive experience in molecular biology and biochemical techniques. Please send a curriculum vitae, brief statement of research experience, and the names of references to: **Dr. Brian S. Hooker, Bioprocessing Group, Environmental Technology Division, Pacific Northwest National Laboratory, Richland, WA 99352. E-mail: bs_hooker@pnl.gov.**

POSTDOCTORAL FELLOWSHIP available immediately to study the molecular virology and pathogenesis of hepatitis C virus infection in man. Applicants should have a strong background in molecular biology and prior research experience in virology. Send curriculum vitae and names of three references to: **Dr. David Gretch, University of Washington Viral Hepatitis Laboratory, Pacific Medical Center, 1200 12th Avenue South, 11th Floor, Seattle, WA 98144. The University of Washington is an Equal Opportunity/Affirmative Action Employer, and strongly encourages applications from female and minority candidates.**

CELL BIOLOGIST/BIOCHEMIST

POSTDOCTORAL FELLOW position is available in the Pulmonary and Critical Care Division, Brigham and Women's Hospital/Harvard Medical School to study the role of cysteine proteases in MHC class II antigen presentation. Experience in immunochemistry cell culture and mouse models preferred. Send curriculum vitae to: **Dr. Harold Chapman, Pulmonary and Critical Care, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. FAX: 617-732-7421. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOW/JUNIOR FACULTY for research group active in gene discovery, genome analysis, and the neurobiology of cognition and behavior. Must have Ph.D. or M.D. and experience in molecular biology. Creativity and dedication preferred.

Please FAX curriculum vitae and three reference letters to:

J. R. Korenberg, M.D., Ph.D.
Cedars-Sinai Medical Center
A UCLA School of Medicine Affiliate
FAX: 310-652-8010

nature neuroscience

seeks two

ASSISTANT EDITORS

The publishers of *Nature* have announced the forthcoming launch of *Nature Neuroscience*, an international monthly journal covering all aspects of neuroscience.

Nature Neuroscience will publish papers of the highest quality in all areas of neuroscience, reflecting the multidisciplinary nature of the field and providing a forum for communicating important advances to a broad readership. News & Views articles, reviews, editorials, opinion and correspondence will accompany the original research.

Nature Neuroscience seeks to recruit two Assistant Editors. These posts will be based in the Nature America editorial office in New York City. Applicants should have a strong research background in neuroscience, a broad interest in the subject, excellent literary skills and a commitment to the communication of scientific ideas.

This is an exciting opportunity to participate in the launch of a major new journal and to play a key role in shaping its future. The successful candidates will work closely with the Editor on all aspects of the editorial process, including manuscript selection, commissioning and editing reviews, writing for the journal and liaising with the scientific community. They will also join a dynamic editorial and publishing team responsible for *Nature Genetics*, *Nature Structural Biology*, *Nature Medicine* and *Nature Biotechnology*.

Please submit a CV, a short (500-1000 words) News & Views-style article on an exciting and newsworthy recent development in any area of neuroscience, and a short cover letter explaining your interest in the post, to: Mary Waltham, President, Nature America, 345 Park Avenue South, New York NY 10010-1707. (Fax 212 696 9006; e-mail neurosci@natureny.com) to arrive as soon as possible and no later than 7 December 1997.



Nature America Inc.

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



Ohio University

Vice President for Research and Graduate Studies

Applications and nominations are invited for the position of Vice President for Research and Graduate Studies at Ohio University. Appointment is anticipated July 1, 1998.

Position Description

The Vice President for Research and Graduate Studies provides leadership in advancing the University's mission in research and graduate studies. The Vice President is responsible for the development and management of externally-sponsored research and technology commercialization, and is also involved in economic and community development efforts related to research and technology transfer. Annual University investment in internally-funded research exceeds \$3 million. Working in coordination with the academic deans, the Vice President oversees the management, quality, and effectiveness of all graduate programs. As a University planning unit, Research and Graduate Studies has an operating budget of approximately \$2 million and includes 65 FTE staff positions. The Vice President reports dually to the president and provost.

Qualifications

Candidates must have an earned doctorate or equivalent terminal degree in their disciplines and extensive administrative experience with significant budgetary responsibility. They must also have academic achievements sufficient to warrant appointment as a tenured full professor, excellent oral and written communication skills, experience in strategic planning, demonstrated success in obtaining external grants and/or contracts, the ability to promote teamwork and cooperation among diverse constituencies, and a commitment to expand research opportunities within a multicultural, multidisciplinary, and multiple campus university. Experience in obtaining funding from private and corporate sources is highly desirable. It is expected that candidates for this position will have extensive understanding of significant national issues affecting research and graduate studies, and at least some knowledge of relevant international issues and trends. Salary will be commensurate with experience and qualifications.

Institution and Setting

Ohio University is a state-assisted residential Research II university with more than \$34 million in externally-sponsored research, instructional, and public service awards in FY97 and reported more than \$8 million in federally supported expenditures for research to NSF in FY96. The university's portfolio includes some 20 issued patents and 35 active patent applications and disclosures. Located in the scenic Appalachian foothills 75 miles southeast of Columbus and established in 1804, it is the oldest university in the Northwest Territory. Undergraduate enrollments exceed 16,000 and graduate (including medical) enrollments exceed 3,000 on the Athens campus, with another 8,000 students, including 800 graduate students, at the five regional campuses. Ohio University offers bachelor's degrees in 92 fields, master's degrees in 48 fields, and doctoral degrees in 28 fields, including the Doctor of Osteopathy degree. Though students are predominantly from Ohio, the university enrolls students from all 50 states and from more than 100 countries. The total budget for 1997-98 exceeds \$360 million. Additional information is available at the university's website: <http://www.ohiou.edu>.

Application Process

Applicants must submit a comprehensive résumé, names and contact information for three references, and a cover letter describing qualifications for this position. Review of applications will begin December 1, 1997, and continue until the position is filled. Send all materials to: Professor Gary Small, Chair, Search Committee for the Vice President for Research and Graduate Studies, 316 Cutler Hall, Ohio University, Athens, OH 45701-2979

E-mail: small@ohiou.edu

Ohio University is an Equal Opportunity/Affirmative Action Employer. Applications from women, veterans, and persons with disability are encouraged.

POSITIONS OPEN

POSTDOCTORAL FELLOW CELLULAR/MOLECULAR BIOLOGY MOLECULAR CARDIOLOGY University of Texas Medical Branch Galveston, Texas

Postdoctoral positions are now available in the Sealy Center for Molecular Cardiology for the study of gene regulation in vascular cells. Positions require experience in molecular biology, DNA/RNA techniques, cell culture, and protein purification and expression. Salary will be commensurate with experience. Positions are available with the following principal investigators:

Marschall S. Runge, M.D., Ph.D.—Molecular mechanisms of atherosclerosis.

Cam Patterson, M.D.—Gene regulation in vascular cells.

George Stouffer, M.D.—Smooth muscle cell growth and proliferation.

Send curriculum vitae and names of three references to: **Dr. Cam Patterson, Sealy Center for Molecular Cardiology, University of Texas Medical Branch, 301 University Boulevard, 9.138 Medical Research Building, Galveston, TX 77555-1064. E-mail: choraist@utmb.edu.** University of Texas Medical Branch is an Equal Opportunity/Affirmative Action/Minority/Female/Disabled/Veteran Employer.

POSTDOCTORAL POSITIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

Positions are available to study the mechanism of action of specific deoxynucleotide-metabolizing enzymes that are targets for cancer chemotherapy. Gene isolation and amplification of their protein products in eukaryotic and prokaryotic systems will be required. Once obtained, substrate and regulatory sites on the protein products will be determined by functional group-specific reagents and affinity labels. In addition, site-specific mutagenesis will be employed to establish the relation of structure to function in these enzymes as well as their subunit interaction, which is essential for the restoration of enzyme activity on mixing inactive mutants. The role of protein phosphorylation in these processes is also being investigated. Cloning, sequencing, and tissue culture experience is desirable. The research will be conducted in a well-equipped core facility. Compensation from Health Research Inc. dependent upon experience. Send résumé and three references to: **Dr. Frank Maley, Wadsworth Center for Laboratories and Research, Empire State Plaza, Box 509, Albany, NY 12201.** An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN THE PATHOGENESIS OF LYME DISEASE AND EHRLICHIOSIS Yale University School of Medicine

Postdoctoral positions available to work with **Dr. Erol Fikrig** on the molecular and cellular immunobiology of Lyme disease and human granulocytic ehrlichiosis. Preference will be given to applicants with experience in molecular biology, microbial pathogenesis, or cellular immunology. Send curriculum vitae and three letters of recommendation to:

Erol Fikrig, M.D.
Section of Rheumatology
Yale University School of Medicine
333 Cedar Street
610 LCI, Box 208031
New Haven, CT 06520-8031
E-mail: erol.fikrig@yale.edu

Yale University is an Equal Opportunity Employer.

POSTDOCTORAL TRAINING in urologic research. The Division of Urology at the University of Pennsylvania School of Medicine invites applications from preferably recent Ph.D.'s in physiology, cell/molecular biology, or biochemistry for postdoctoral training in cell and molecular biological basis of urologic diseases. The annual stipend during the training will be at the level allowed by the NIH. In addition, there are provisions for health insurance, tuition for taking courses, and training in molecular biology. This position is available immediately for a U.S. citizen or an immigrant, and interested candidates should send a letter, curriculum vitae, a statement of research interests to: **Dr. Samuel K. Chacko, Director of Basic Urological Research, Division of Urology, 3010 Ravdin Courtyard Building, University of Pennsylvania Medical Center, 3400 Spruce Street, Philadelphia, PA 19104-4283.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS

A Postdoctoral position is available immediately in a multi-institutional, collaborative project that will further characterize the diverse activities of the Gram-positive bacterial tetracycline efflux protein (TetA(L)) and use the information on its biochemical profile as the basis for structural studies of the whole transporter and a catalytically active N-terminal domain thereof. Candidates should have a background in biochemistry, with experience in protein biochemistry, enzymology, and membrane protein biochemistry of particular relevance. Also useful is familiarity with conventional molecular biological techniques as they might be used for expression of prokaryotic genes. Prior experience with structural biological work is not necessary.

Another Postdoctoral position is available on a project that focuses on the energy-transducing proteins of extremely alkaliphilic bacteria, using molecular and biochemical approaches to understanding how such organisms carry out oxidative phosphorylation robustly at pH>10 utilizing a proton-translocating ATP synthase. A background in prokaryotic molecular biology and/or biochemistry would be very useful.

Interested individuals should send a résumé/curriculum vitae, to: **Dr. Terry Ann Krulwich, Box 1020, Department of Biochemistry, Mount Sinai School of Medicine, 1 Gustave L. Levy Place, New York, NY 10029-6574. E-mail: krulwich@mssm.edu.** We are an Equal Opportunity Employer fostering diversity in the workplace.

POSTDOCTORAL FELLOWSHIP IN PLANT SIGNAL TRANSDUCTION WAKSMAN INSTITUTE Rutgers University

A Postdoctoral Research position is available to study signal transduction during induction of disease resistance to viral infections of tobacco and *Arabidopsis*. Genetic, molecular, and biochemical approaches are being utilized. Emphasis is being placed on defining components of these pathways, particularly the salicylic acid-mediated signaling pathway (PNAS 93:14972, 1996; Plant J. 10: 1089, 1996; Plant Cell 9:809, 1997; Plant J. 11:301, 1997; Plant J. 11:747, 1997; Plant J. 11:993, 1997; Plant Physiol. 113:1319, 1997; Genes & Dev. 11:1621, 1997; Trends Plant Sci. 2:266, 1997).

Applicants should have research experience in genetics, molecular biology, and/or biochemistry. Send a curriculum vitae and a cover letter detailing experience and have three letters of recommendation sent to: **Daniel Klessig, Waksman Institute, Rutgers University, 190 Frelinghuysen Road, Piscataway, NJ 08854.**

Rutgers University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN EUKARYOTIC GENE REGULATION

Postdoctoral positions available to study regulation of gene expression in immune system. Studies focus on mechanisms of MHC class II gene expression, regulation of genes by TNF, and role of MHC in fetal-maternal tolerance. Send curriculum vitae and three names of references to: **Jeremy M. Boss, Ph.D., Department of Microbiology and Immunology, Emory University School of Medicine, Atlanta, GA 30322.**

POSTDOCTORAL POSITIONS available to study regulation of transgene expression in the nervous system using herpes simplex virus-based gene transfer vectors (Ann. Rev. Neuroscience 19:265, 1996; Nature Med. 3:357, 1997). Requires M.D. or Ph.D. and experience in either neuroscience or virology. Send curriculum vitae and the names of three references to: **Dr. David Fink, Department of Neurology, Molecular Genetics and Biochemistry, s-520 Biomedical Science Tower, University of Pittsburgh, Pittsburgh, PA 15213. E-mail: dfink@med.pitt.edu.**

POSTDOCTORAL RESEARCH ASSOCIATE with substantial experience in cell transfection is needed for NIH- and NSF-funded program. Interested individuals should send a curriculum vitae and two references to: **Dr. Alexander Kabanov, Ph.D., Department of Pharmaceutical Sciences, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-6025. E-mail: akabanov@mail.unmc.edu.** The University of Nebraska is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE/ RESEARCH SCIENTIST

The Department of Surgery Research Laboratory has two immediate openings for Postdoctoral Research Associates. Experience in techniques such as cell culture, detection of apoptosis, flow cytometry, immunoassays, and immunohistochemistry are desired. Experience with small animal models and a demonstrated ability to work independently are preferred. Salary commensurate with experience.

One position is for the Islet Transplant Laboratory, which is listed with UNOS as a clinical islet transplant center and has an active research program in islet transplantation with particular interest in early engraftment phenomena. Emphasis is being placed on the role of heat shock proteins in islet engraftment and the immune and autoimmune responses following transplantation.

The second position is in the new Burn Laboratory and will involve research in shock, sepsis, and the role of heat shock proteins in providing thermotolerance.

Send cover letter and résumé to: **Department G, Personnel Office, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210.** Please specify the position you are seeking.

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POSTDOCTORAL FELLOWSHIP/ RESEARCH ASSOCIATE

Opening(s) available for individual(s) to work on projects related to interactions between osteoblasts and hematopoietic cells. Minimal requirements include a Ph.D. in biochemistry, developmental biology, or a closely related discipline. Additional requirements include substantial experience in molecular biology and biochemistry, including expression, cloning, and protein purification. Level of appointment will be made depending upon qualifications of the individuals selected.

Interested candidates should send their curriculum vitae along with names and contact information for three references to:

Stephen G. Emerson, M.D., Ph.D.
Chief, Division of Hematology/Oncology
University of Pennsylvania School of Medicine
Maloney 510
3600 Spruce Street
Philadelphia, PA 19104
E-mail: emersons@mail.med.upenn.edu

University of Pennsylvania is an Equal Opportunity Employer, and applications from qualified underrepresented minorities are encouraged.

POSTDOCTORAL POSITION IN CANCER GENETICS AND BIOLOGY FRED HUTCHINSON CANCER RESEARCH CENTER

Project entails genetic analysis of cancer in mice using several tumor induction models including liver, lung, skin, and GI. The project will use knockout mice for p27 and p53 genes to understand the biological and tissue-specific roles of these proteins in tumor progression, as well as identifying novel genes involved in tumor progression using state-of-the-art genotyping. Experience in, or demonstrated desire to learn, cancer genetics, cancer biology, and/or chemical carcinogenesis is essential. Send curriculum vitae, a statement of research accomplishments and goals, and names of three references to: **Dr. Christopher J. Kemp, Fred Hutchinson Cancer Research Center C1-015, 1100 Fairview Avenue North, C1-015, P.O. Box 19024, Seattle, WA 98109.**

POSTDOCTORAL ASSOCIATE

A Postdoctoral position is available at Fox Chase Cancer Center for work in the field of antibody engineering to develop novel cancer therapeutics. The successful candidate must have prior specific training and expertise in molecular biology. The project entails the design and construction of antibody-based fusion proteins derived by phage display and produced in a variety of expression systems. The tumor-targeted and biological properties of these proteins will be characterized. Applicants must hold a Ph.D. or equivalent degree, preferably in molecular biology or a closely related discipline. Send inquiries, curriculum vitae, and names of three references to: **Louis M. Weiner, M.D., Chairman, Department of Medical Oncology, c/o Human Resources, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. FAX: 215-728-5338; e-mail: lm_weiner@fccc.edu.** Equal Opportunity Employer.

BioENGINEERING

Building the Future of Biology and Medicine

February 27-28, 1998 Natcher Conference Center National Institutes of Health Bethesda, Maryland

Charting a vision for the future of bioengineering research is the goal of a two-day symposium sponsored by the National Institutes of Health (NIH). The symposium format will include plenary sessions, panel discussions, scientific posters and exhibits related to research in biology and medicine. Plenary sessions and panels will delineate grand challenges, identify barriers to success and highlight important research themes. Posters and exhibits will provide a forum for showcasing NIH-funded bioengineering projects fostering future collaborations among academic investigators, industry and small businesses.

Introduction—Harold Varmus, M.D., Director of NIH

Keynote address—Senator Bill Frist, M.D. (R-Tennessee)

Informatics—Now and Beyond—Patricia F. Brennan, Ph.D.

Imaging and Measurements from the Molecule to Function—Scott E. Fraser, Ph.D.

Next Generation Devices and Methodologies—O. Howard Frazier, M.D.

Functional Genomics—From the Genome to the Physiome—Leroy E. Hood, M.D.,

Delivery of Molecular and Cellular Therapeutics—Rakesh K. Jain, Ph.D.

Materials for Understanding and Controlling Biological Processes—Buddy Ratner, Ph.D.

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Internet site for registration and additional information: <http://www.nih.gov/grants/becon/symposium.htm>
or contact: Kathleen Edmunds, Prospect Associates, via fax: 301-770-5164 telephone: 301-468-6555;
email: kedmunds@prospectassoc.com



Center for Molecular & Cellular Biology

Queens College of the City University of New York seeks applications for two positions at the rank of Associate or Full Professor for its Center for Molecular & Cellular Biology. Areas of specialization: 1) virology and molecular biology of HIV; 2) Preclinical and clinical vaccine development.

Qualifications: Ph.D. or MD/Ph.D. degree, substantive postdoctoral experience, record of publication in quality journals, extensive record of extramurally funded research projects. Will be expected to develop funded research programs, work in collaboration with Dr. Luc Montagnier, the Gloria and Bernard Salick Professor of Molecular & Cellular Biology and Director of the Center, and teach in the Department of Biology. Salary based on qualifications/experience. Excellent benefits.

For consideration, please send letter, detailed curriculum vitae, and 3 letters of reference by 1/12/98 to: Dr. Luc Montagnier, Salick Professor and Director, Center for Molecular & Cellular Biology, Queens College, Flushing, NY 11367-1597. AA/EOE/ADA

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POSITIONS OPEN

POSTDOCTORAL POSITION in cellular and molecular neurobiology. The Department of Neurobiology has Postdoctoral positions available to study various aspects of molecular, cellular, and developmental neurobiology. Some major areas of interest are cell-cell and cell-substratum adhesion molecules, neurite outgrowth, and nerve regeneration. Specific studies include: structure-function analysis of adhesion molecules, analysis of overexpression, mutation or deletion of adhesion molecules in cells and animals, analysis of genes such as Hox and Pax, which control the expression of adhesion molecules, and their subsequent roles in the formation of morphogenetic pathways, and the gene programs activated by adhesion molecule binding. Applicants should have a strong background in cellular and/or molecular biology. Send curriculum vitae and three letters of reference to: **Dr. Gerald M. Edelman, Chairman, Department of Neurobiology, The Scripps Research Institute, 10550 North Torrey Pines Road, SBR14, La Jolla, CA 92037.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION MARINE MICROBIOLOGY

A Postdoctoral position is available beginning January 1, 1998, in the Division of Biomedical Marine Research at Harbor Branch Oceanographic Institution. Applicant must hold a Ph.D. in microbiology or related discipline and have experience in the isolation and identification of heterotrophic marine microorganisms. Preference will be given to a candidate who is also experienced in molecular biology. Research will address the isolation of microorganisms associated with deep-water marine sponges. Position is funded for eighteen months. Send application, curriculum vitae, transcripts, list of publications, and names of three references to: **Ms. Pauline Crahan, Personnel Services, Harbor Branch Oceanographic Institution, Inc., 5600 US1 North, Fort Pierce, FL 34946.** *Harbor Branch Oceanographic Institution is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS

The MIT Biology Department has first and second Postdoctoral positions available to work on problems in the biology of signal transduction and cell division. An interdisciplinary program in cellular engineering and discovery is seeking postdoctorals committed to applying advanced microscopy, mass spectrometry, and bioinformatics technologies to the study of signal transduction in mammalian cells. A strong background in molecular and cellular biology or analytical and synthetic chemistry required. Please send curriculum vitae and three references to: **Prof. Peter Sorger (e-mail: psorger@mit.edu) and Prof. Anthony J. Sinskey (e-mail: asinskey@mit.edu), 68-371, 77 Massachusetts Avenue, Cambridge, MA 02139-4307. FAX: 617-253-8550.** *MIT is an Equal Opportunity/Affirmative Action Employer. MIT is a nonsmoking environment.*

A **POSTDOCTORAL POSITION** (renewable for three years) is available immediately to genetically engineer Gram-positive and -negative bacteria to secrete corrosion-inhibiting compounds. This project is part of a multidisciplinary effort to study biologically influenced corrosion. A Ph.D. in molecular biology, chemical engineering, or related field is required and experience with fermentation and biofilms will be beneficial. Send curriculum vitae and the names of three references to: **Dr. Thomas K. Wood, 916 Engineering Tower, Chemical and Biochemical Engineering, University of California, Irvine, CA 92697-2575. Telephone: 714-824-3147; FAX: 714-824-2541; e-mail: tkwood@uci.edu.**

POSTDOCTORAL POSITION is available in the Vanderbilt Cancer Center to study the molecular biology of mammalian cell death, focusing on the BAD, BCL-X, and BCL2 family of apoptosis genes. Individuals with Ph.D. and/or M.D. degrees trained in molecular biology and interested in competitive apoptosis research are encouraged to contact: **Elizabeth Yang, M.D., Ph.D., 518 MRBII, Vanderbilt Cancer Center, Nashville, TN 37232-6838. Telephone: 615-936-3585; FAX: 615-936-1767; e-mail: elizabeth.yang@mcmail.vanderbilt.edu.**

POSTDOCTORAL POSITION available to study the effect of steroid hormones and their antagonists on DNA repair and the response to oxidative stress. Send curriculum vitae and the names of three references to: **Nick Rampino, Ph.D., The Burnham Institute, 10901 North Torrey Pines Road, La Jolla, CA 92037. E-mail: nrampino@burnham-inst.org.**

POSITIONS OPEN

RNA MOLECULAR BIOLOGY

POSTDOCTORAL POSITION available to investigate the regulatory mechanisms that control mRNA stability in prokaryotes. Molecular biological, biochemical, and genetic strategies will be used to study the proteins and RNA elements that influence gene expression by regulating mRNA degradation (see *Nature* 360:488, 1992; *Genes Dev.* 9:84, 1995). Send curriculum vitae, a brief summary of research experience, and the names of two references to: **Dr. Joel Belasco, Skirball Institute, New York University Medical Center, 540 First Avenue, New York, NY 10016.**

POSTDOCTORAL POSITION YALE UNIVERSITY SCHOOL OF MEDICINE

Our laboratory is interested in understanding how small RNA molecules are folded, processed, assembled with proteins, and sorted within cells. Our focus is on RNA-binding proteins that play critical roles in these processes (see *Cell* 89:393-402; *RNA* 2:769-784; *Genes & Dev.* 8:2891-2903; *J. Cell Biol.* 129:1181-1193). Candidates should be highly motivated, possess a recent Ph.D. degree, and have experience in biochemistry, genetics, or molecular biology. Please send curriculum vitae, a brief summary of research experience, and the names of three references to: **Dr. Sandra L. Wolin, Departments of Cell Biology and Molecular Biophysics and Biochemistry, Howard Hughes Medical Institute, Yale University School of Medicine, 295 Congress Avenue, New Haven, CT 06536.**

POSTDOCTORAL POSITION IN THE ENDOCRINE UNIT, MASSACHUSETTS GENERAL HOSPITAL Harvard Medical School

Pseudohypoparathyroidism type Ib: search for the genetic defect through linkage studies and positional cloning, exploration of its role PTH/PTHrP receptor regulation. This is a three-year position requiring an M.D. or Ph.D. with a background in molecular biology and molecular genetics.

Send curriculum vitae with three references to: **Dr. Harald Jüppner, Endocrine Unit, Massachusetts General Hospital, Boston, MA 02114. E-mail: jueppner@helix.mgh.harvard.edu.**

POSTDOCTORAL POSITION in neurophysiology available to study how oxidation affects ion channel and other neuronal properties. Electrophysiology experience using single-channel and macroscopic patch-clamp recordings as demonstrated by publication is required. Knowledge of molecular biology, optical methods, and organ-level physiology is desirable. Send curriculum vitae, names of references, and description of previous research experience to: **T. Hoshi, Ph.D., Department of Physiology and Biophysics, The University of Iowa, Iowa City, IA 52242. FAX: 319-335-7330. E-mail: toshinora-hoshi@uiowa.edu.** *The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

POSTDOCTORAL POSITION available immediately to identify new genes and gene products expressed by adipose tissue and to study transcriptional regulation of leptin and associated genes. Should have experience in protein chemistry, Western blotting, RNA isolation, subcloning, PCR, footprinting, and other molecular techniques. Send statement of research interests, curriculum vitae, and names of three references to: **Dr. Gary J. Hausman, University of Georgia, Richard B. Russell Research Center, 950 College Station Road, Athens, GA 30605-2720. FAX: 706-546-3586.** *Equal Employment Opportunity/Affirmative Action Institution.*

POSTDOCTORAL POSITIONS in molecular biology and nucleic acid chemistry at the Laboratory for Molecular Science of the University of Southern California. Basic interdisciplinary research related to the construction of a molecular computer (L. Adleman, "Molecular computation of solutions to combinatorial problems," *Science* 266:1021-1024, November 11, 1994). Research directed by **Professors Leonard Adleman and Myron Goodman.** Please submit three letters of reference and curriculum vitae to: **Dr. Nickolas Chelyapov, USC/Molecular Biology—ACB 530, 835 West 37th Street, Los Angeles, CA 90089-1340. E-mail: delapaz@pollux.usc.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS NEW YORK UNIVERSITY MEDICAL CENTER

Postdoctoral positions are available to study: (i) apoptosis in parasites and (ii) mechanisms of parasite resistance to human serum. Studies are focused on both African and American trypanosomes. For the second position, some experience in molecular biological techniques and protein expression is preferred. Applications (including curriculum vitae and names of referees) and requests for further information should be sent to: **Dr. Stephen Tomlinson at New York University Medical Center, Department of Pathology, MSB 127, 550 First Avenue, New York, NY 10016. E-mail: tomlis01@popmail.med.nyu.edu.**

POSTDOCTORAL POSITION AT THE UNIVERSITY OF CONNECTICUT

Mutagenesis and DNA repair of carcinogen/antitumor agent-DNA adducts in mammalian cells. Applicants must have strong background in genetics and molecular biology with experience in mammalian systems. Apply with names of three references to: **Prof. Ashis Basu, U-60, Department of Chemistry, University of Connecticut, Storrs, CT 06269.** *Equal Opportunity/Affirmative Action Employer. (Search #98A-179).*

GRANTS

ENVIRONMENTAL SCIENCE MINIGRANTS

The Environmental Defense Fund (EDF), a national not-for-profit environmental organization, requests letters of inquiry that describe potential proposals for research projects at a maximum cost of \$15,000 related to topics of substantive interest to EDF. Letters should be no longer than one page and should describe the research topic, its relevance to environmental policy, amount of funding requested, and major expenditure items. Letters are due no later than December 15, 1997. Principal investigator must hold the equivalent of a faculty position at a public or private college or university. See EDF's website for details (<http://www.edf.org/minigrant/index.html>). Send letters to: **Minigrant Coordinator, EDF, 257 Park Avenue South, New York City, NY 10010.** *EDF is an Equal Opportunity Employer.*

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Auburn University is seeking applications for the position of **DEAN, College of Agriculture and DIRECTOR, Alabama Agricultural Experiment Station.** Consideration of applications will begin February 1, 1998, and will continue until a candidate is selected and recommended for appointment. For more information contact: **Emmett F. Thompson, Search Committee Chair, School of Forestry, Auburn University, AL 36849-5418. Telephone: 334-844-1007; FAX: 334-844-1084; E-mail: thomps@forestry.auburn.edu.** *Auburn University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

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This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain the Doctor of Optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: **Lawrence Shattuck, M.Ed., The New England College of Optometry, The Office of Admissions, 424 Beacon Street, Boston, MA 02115.**



SENIOR RESEARCH EPIDEMIOLOGIST

NIOSH is seeking a senior research epidemiologist to serve as Project Officer in the conduct of occupational epidemiologic studies. He/she would initiate, design, and direct studies that assess the relationship between disease and exposures to occupational hazards, including ionizing and non-ionizing radiation, metals, and solvents. As project officer the incumbent would develop research protocols, manage the collection of data, and produce reports for publication in scientific peer-reviewed journals and for internal technical reports. The position requires interaction with research personnel in government agencies, academic institutions, and other public and private organizations involved in common areas of research. In addition, the incumbent may provide technical oversight to projects conducted by external contractors/grantees. A doctoral degree in epidemiology, biostatistics, or a related field is strongly desirable. Salary will be commensurate with experience and education. *Applicant must be a U.S. citizen. NIOSH is an Equal Opportunity Employer.* Facilities are designated as smoke-free. Interested candidates should contact **Robert Rinsky, Ph.D., NIOSH, 4676 Columbia Parkway, Cincinnati, OH 45226. (513) 841-4131.**

The UMMC's Biologic Laboratory is an FDA-licensed facility for development and manufacture of biologic products including human vaccines and plasma products.

Director

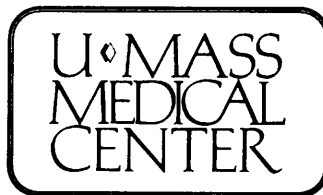
Massachusetts Biologic Laboratories - Boston, MA

The University of Massachusetts Medical Center (UMMC) seeks a Director for its Massachusetts Biologic Laboratories (MBL), located in Boston. The MBL, which is licensed by the U.S. Food and Drug Administration (FDA) to manufacture biologic products for human use, has as its primary mission the improvement of public health through research, development and production of vaccines and plasma products. The MBL, with a staff of over 160, has been fulfilling this mission since 1894.

The Director's primary responsibility is to lead the research and development functions in a dynamic and innovative manner that will continue to allow the Massachusetts Biologic Laboratories to maintain a leadership position in product development. The Director's tasks shall include developing and implementing a strategic plan, and fostering effective relationships with public and private institutions. The Director will have a faculty appointment in an appropriate department of the University of Massachusetts Medical School.

The candidate must have either an M.D. or Ph.D. in a biological science, demonstrated leadership abilities and nationally recognized scientific credentials. Candidates with prior experience or understanding of the development of biologic products, specifically in vaccine development, are preferred. Other relevant experience includes an understanding of clinical trial management and evaluation, as well as success in establishing collaborative agreements with the pharmaceutical/biotech industry.

All candidates should submit a curriculum vitae with a bibliography, which provides information on relevant experience and accomplishments, and a list of at least three references with their postal and E-mail addresses, telephone and fax numbers. Applications will be accepted until the position is filled, although evaluation will begin immediately.



Please send all inquiries to:
Edward Bresnick, Ph.D.,
Vice Chancellor for Research,
University of Massachusetts Medical Center,
55 Lake Avenue North,
Worcester, MA 01655.

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The Institute of Atomic and Molecular Sciences, Academia Sinica, is seeking candidates for several tenure-track research faculty positions at the Assistant Research Fellow, Associate Research Fellow, and Research Fellow levels. Qualified candidates (with a Ph.D degree and postdoctoral experience) in one of the following areas are encouraged to apply: **Molecular Reaction Dynamics, Experimental Atomic Physics, Condensed Matter and Biophysical Sciences, Theoretical Atomic Physics and Quantum Chemistry, Surface Sciences, Laser and Optical Sciences, Photochemistry and Molecular Spectroscopy.** Applicants should submit a letter of application, a curriculum vitae including a list of publications, and a brief research plan, to: **Professor Sheng-Hsien Lin, Director, Institute of Atomic and Molecular Sciences, Academia Sinica, P.O. Box 23-166, Taipei, Taiwan 106, R.O.C.** Applicants should also arrange to have three letters of reference sent to the above address. Review of applicants will begin on Feb. 1, 1998, and continue until the positions are filled. Additional information about IAMS is available on its homepage at <http://www.iams.sinica.edu.tw>.

EUROPEAN CAREER OPPORTUNITIES

— Ludwig — **LMU**
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The Institut für Medizinische Optik at the faculty of physics invites applications for the

Head of a Junior Research Group

for the field **Theoretical molecular biophysics: Many body theory of protein structural dynamics and heterogeneity** to be established by the Volkswagen-Foundation.

Required are a doctor's degree in theoretical physics or theoretical chemistry and experience in the theory of condensed matter, i.e., particularly concerning the statistical mechanics of fluids and (bio)-polymers, the simulation of the molecular dynamics of proteins, and/or the (quantum mechanical) calculation of force fields for protein-solvent systems. Applicants should be willing to cooperate with scientists working in these and related fields within a local research program (SFB) "Light-induced dynamics of bio-polymers."

For the Junior Research Group, a funding period of five years is envisaged. Salaries are subject to the German civil service tariff regulations (BAT).

Applications including curriculum vitae, list of publications, references, and a brief outline of past and current research activities should be sent to **Prof. Dr. Paul Tavan, Institut für Medizinische Optik, Ludwig-Maximilians-Universität München, Oettingenstr. 67, D-80538 München, Germany, not later than December 31, 1997.**

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