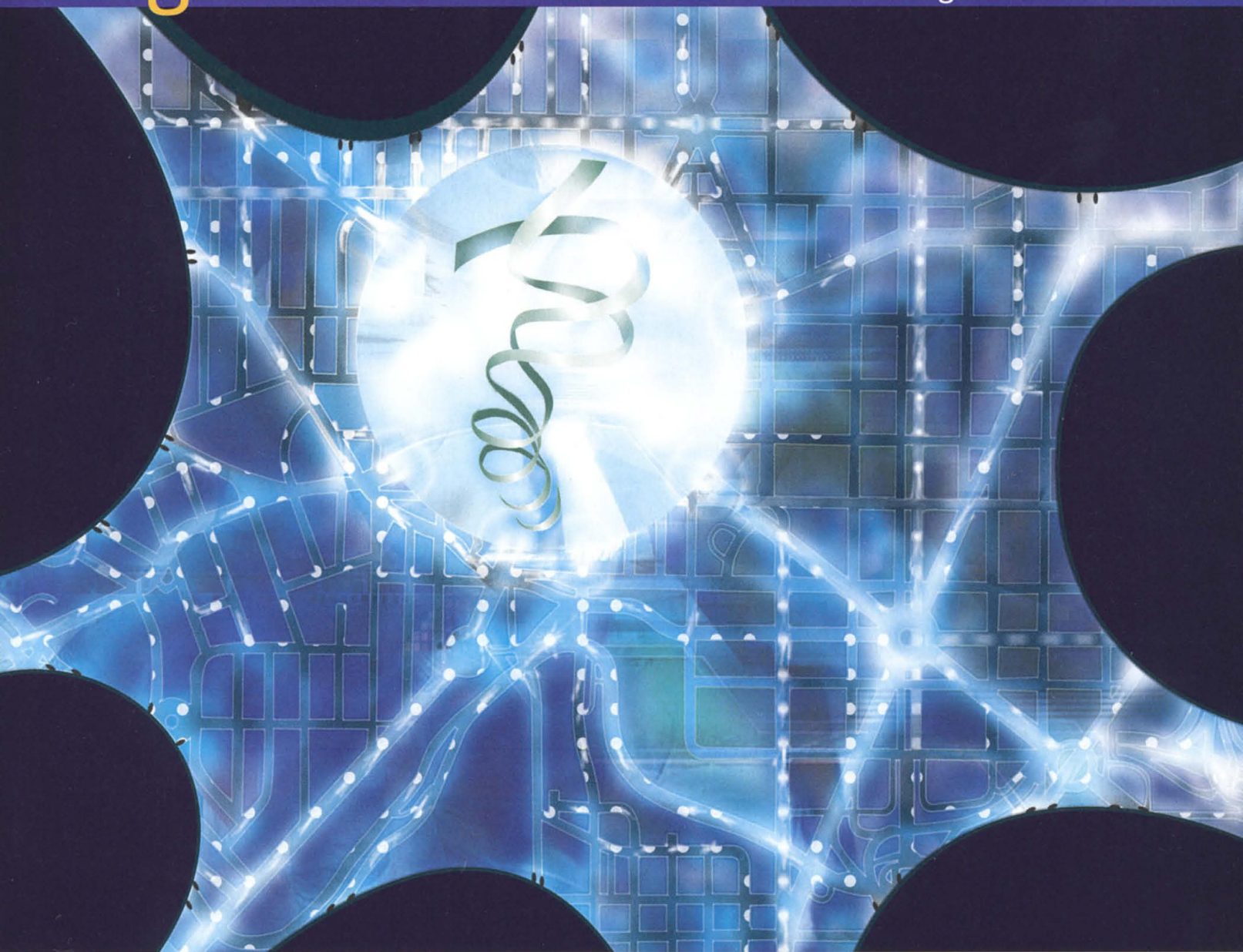


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# NEW PRODUCTS

## Jellyfish 3.0 LabVelocity, Inc.

San Francisco, CA  
Academic, \$450;  
nonacademic, \$600  
<http://jellyfish.labvelocity.com>

software allows the import of gene sequences from public databases or from files on the user's hard drive. If sequences are imported from the National Center for Biotechnology Information (NCBI), Jellyfish automatically imports the GenBank annotation in a separate file and makes the information available to the user with a single click. Once sequences are imported, they can be stored in project files or manipulated. Jellyfish will automatically display the sequence graphically and indicate annotated motifs in genes if available. The user can then, for example, perform an alignment and look for similarities or create publication-quality output files in FASTA or GIF format.

Jellyfish uses the same algorithm for its alignment calculations as used in the Web-based ClustalW ([www.ebi.ac.uk/clustalw](http://www.ebi.ac.uk/clustalw)) alignment program. If the user's intent is to analyze experimentally obtained DNA sequences, BLAST searches can easily be performed against the NCBI database. Jellyfish returns the output files of a BLAST analysis by launching a separate browser window and stores results in its file management system. The sequence can be analyzed to find restriction sites using the regularly updated information from the public restriction enzyme database, Rebase (<http://rebase.neb.com>). Further annotations can be made if, for instance, a specific location of an existing primer within the sequence is to be found and marked. To design new primers for polymerase chain reaction (PCR) or for probe construction, the desired region and PCR product size can be specified and Jellyfish will design the primer sequences and statistically evaluate them for their melting point, GC content, and a few other parameters. The algorithm used in the primer design is the one also used on the popular Primer3 Web site ([http://www-genome.wi.mit.edu/cgi-bin/primer/primer3\\_www.cgi](http://www-genome.wi.mit.edu/cgi-bin/primer/primer3_www.cgi)). Primers can subsequently be modified to include novel restriction sites, for example, for use in mutagenesis experiments. Other features of Jellyfish include an open reading frame (ORF) finder function, reverse complementation of the sequence, and gene translation. Most of the described commands can be carried out simply by dragging the desired sequences from the project folders into the manipulation panel. After uploading, all subsequent work can be done without ever having to leave the interface until the project is saved and placed back in its folder.

Jellyfish offers very convenient basic gene analysis using established algorithms and Web tools without the hassle of switching back and forth between various Web sites, constant copying and pasting, and storing data in multiple files on the user's hard drive. The program makes it easy to stay organized and, because of its intuitive interface, is also ideal for the beginner. The software runs on both PC and Macintosh platforms and is compatible with Mac OS X.

—Andreas Madlung

Department of Botany, University of Washington, Seattle, WA 98195, USA. E-mail: [madlunga@u.washington.edu](mailto:madlunga@u.washington.edu)

## Lumex

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## FISHING FOR GENES

Jellyfish 3.0 is the latest version of a gene analysis program from LabVelocity, which offers an all-in-one package of the most commonly used molecular gene analysis functions. Jellyfish can import and manipulate sequences in the same window. The

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The CAPEL series is high-performance capillary electrophoresis instruments equipped with a photometric detector. The CAPEL-

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Agilent's capillary electrophoresis (CE) system offers benefits such as high-performance liquid chromatography-like reproducibility, sensitivity, and linearity; integrated software with graphical user interface; pioneering new separation techniques, including capillary electrophoresis mass spectrometry; and extensive regulatory compliance tools. It features a diode-array detector designed for on-capillary detection. The extended light-path capillaries extend detection limits and linearity with the high-sensitivity detection cell. The wide linear measurement range enables low-level impurity analysis in a single run. Real-time spectral analysis permits accelerated method development, with peak purity routines, compound identification, and confirmation interactively using spectral libraries or in a single method automated efficiencies. To combine the short analysis time and high separation efficiency of CE with the molecular weight and structural information from the mass selective detector, the capillary electrophoresis system can be interfaced directly to the Agilent 1100 Series mass selective detector with no positional adjustments and with full single point control through an Agilent ChemStation. The electrospray ionization mode is sensitive, versatile, and easy to use in combination with CE.

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CONTINUED ON PAGE 1445





offer advantages over traditional electrophoresis for DNA quantitation, synthetic oligonucleotide purity analysis, mutation analysis, size polymorphisms analysis, and the study of DNA/protein interactions. The P/ACE Glycoprotein System for the separation and characterization of proteins and associated carbohydrates is suitable for peptide mapping, separation of proteins by molecular weight, accurate isoelectric point determination, oligosaccharide profiling, and monosaccharide analysis.

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the-art charge-coupled device (CCD) and communication technologies to optimize the imaging and image analysis workflow in life science research laboratories. The system's mega-pixel CCD digital camera and IEEE 1394 (Firewire) interface provide outstanding image quality and real-time imaging speed. Key system features include: scientific grade monochrome 1.4 MP sensor for excellent resolution and detection sensitivity and low noise; a communication interface for real-time preview and less than 2-s image acquisition time; single-exposure, multi-exposure accumulation, or time-lapse capture modes; integration capability of up to 32 images that provides up to 12-bit image files for extended dynamic range and improved quantitative accuracy; and award-winning software.

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in the laboratory. The TES 88 includes an extra-large cooling module, a dispensing module with spacious work area, and a dual-chamber thermal module with easy-access covers. The complementary design of each module allows users to add or arrange modules in different configurations to create the perfect all-in-one workstation to meet specific application requirements. The stainless steel cold plate on the cooling module measures 550 mm by 260 mm and can adequately hold 110 blocks. The temperature is adjustable down to  $-15^{\circ}\text{C}$ . The temperature control working plate on the dispensing module adjusts temperatures from  $30^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ . The paraffin tank holds 3.5 liters and dispenses paraffin through a heated nozzle equipped with a wax flow regulation screw. The working plate contains drainage grooves for directing paraffin overflow into a collection drawer for easy cleanup. Convenient heated wells are located on each side of the nozzle for holding up to five forceps each. The thermal module contains a pre-warming chamber for warming up embedding molds (adjustable from  $30^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ ) and a removable warming tray (adjustable from  $30^{\circ}\text{C}$  to  $75^{\circ}\text{C}$ ) for the storage of specimens in liquid paraffin.



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*Guide to Capillaries, Reagents, and Supplies for CE and CEC* is a 36-page resource manual that reviews every aspect of the capillary electrophoresis (CE) and capillary electrochromatography (CEC) process, from application kits and separation capillaries to reagents, buffers, and test samples. It provides troubleshooting, maintenance, and repair tips. It includes a method development and optimization guide.

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Managers of academic, government, and industrial laboratories recognize the value of scientific staffs with different backgrounds and experiences. But they still have difficulty recruiting truly diverse teams.

BY PETER GWYNNE

Why should scientific organizations encourage diversity among their staffs? The reasons go beyond ethical considerations regarding equality. First, the numbers of white male science graduates are falling in proportion to the need for scientists. Women and members of underrepresented minority groups can help to fill the pipeline of scientific talent. Beyond that a diverse work force brings a breadth of thinking to any laboratory or department. That has obvious value to the research enterprise.

Some organizations regard diversity as more than a matter of including women and minorities in their work forces. European companies, for example, often emphasize the need to gather scientists of several nationalities under the same roof. And small firms frequently seek a diversity of skill sets as much as of gender, race, and ethnicity.

Here we discuss efforts to encourage diversity with representatives of two government agencies, two universities, and three companies. Their basic messages: Diversity has value in the lab and in the marketplace. But despite some progress, plenty of work remains to even out the playing field for scientists from untraditional groups.

CONTINUED >>



# diversity

MAKING A DIFFERENCE



**ATLANTA, Georgia:** "As a public health agency, we have to serve all the public; our work force should be representative of the United States work force," says Toby Burt, chief of outreach and marketing at the Centers for Disease Control and Prevention (CDC). "Having people on our staff from a variety of diverse populations helps us to do our job better. This is pivotal to what we do, and CDC's management has recognized that."

The recognition has led to concrete steps to encourage diversity. The directors of individual centers, institutes, and offices undertake formal efforts to recruit underrepresented groups. They also report directly to CDC's director, Julie Gerberding, on the progress of those efforts.

The work has already borne fruit. "Minorities and women make up almost a quarter [22 percent] of the higher grade levels of our work force," says Burt. "And women make up a little more than half [51 percent] of staff in civil service grades 13 to 15." Those positions are roughly equivalent to middle to senior level managers. In addition, African-Americans account for about a quarter (24.4 percent) of workers at CDC by contrast with 11.2 percent in the civilian labor force.

Other groups have not fared so well. "Hispanics and native Americans are severely underrepresented," says Burt. Thus 3.2 percent of CDC's work force is Hispanic by contrast with 11.8 percent of the outside work force while Native Americans make up 0.5 percent of CDC's staff and 0.9 percent of workers outside. In response, Burt continues, "we're doing targeted recruiting." Representatives of the organization regularly visit colleges and universities – and especially schools of public health – that have relatively large numbers of members of the two groups.

Once it has successfully recruited scientists from underrepresented groups, CDC tries to ensure that it keeps them. "A lot of the literature suggests that new employees entering the work force expect to work here five years or less," explains Burt. "So we need to continue to develop programs that will contribute to retention." Because different groups and people have different issues, the programs work largely at the level of the individual scientist or staffer. "We're recommending that specific employees be mentored to figure out what will keep them here and to find out what motivates them," Burt says.

Burt advises that minorities interested in working for CDC get some background in public health. "As one of the nation's lead agencies in public health, CDC looks closely at individuals with some sort of public health background or experience when hiring," he concludes.

**ARLINGTON, Virginia:** The National Science Foundation has many programs designed to promote diversity in the science and engineering work force and spends over \$100 million per year on such efforts. "The emphasis on the criterion called broader impact is critical," says Alice Hogan, director of the agency's ADVANCE program, which seeks to ensure fuller participation of women faculty in academic science and engineering. "People must be able to describe why their work is important for more than the pure science they intend to pursue. For example, applicants for grants should note how their research offers chances for underrepresented groups to get exposure to research and

how that will enhance training and learning opportunities. It's more than just saying how many minority or female graduate students they have or intend to recruit."

Hogan's program sets out to address concerns that women encounter once they enter the scientific enterprise. "There are recruitment issues, retention issues, and promotion and leadership issues," she says. "There are still a lot of searches going on at colleges and universities where there are no women candidates or no women on the short list. Our program has concentrated on equipping faculty search committees, for example, with knowledge about unconscious biases, through presentation of solid research findings and their implications for faculty hiring processes." Regarding promotion, she continues, "Some of our top institutions have never had a woman chair in science or engineering. Women aren't found in the pool of higher faculty positions in proportion to their entry numbers. That matters because if you're trying to expand the pool, you want to send a signal to future faculty that there's room for them at the top as well as entry level."

Hogan pinpoints one other significant problem. "Many young women still believe they have to make the choice between an academic career and having a family," she says. "They feel that this is a dilemma they have to solve individually. The system is not set up to accommodate a diverse set of experiences."

What advice does Hogan have for women and minority scientists seeking faculty positions? "Ask around about the departments to which you are applying, particularly those with a poor reputation for inclusiveness," she recommends. "They might be interviewing, but you have to decide whether you want to risk being in an environment that is very high quality in one sense but not so in terms of acceptance. Be aware of a department's reputation. If you've been hired and those problems become evident, remember that it's probably not you; the institutional culture is likely at fault." She adds one more tip: "If we're doing the right thing at NSF," she suggests, "the places that have our ADVANCE awards will be the places to try."



T. GREGORY DEWEY

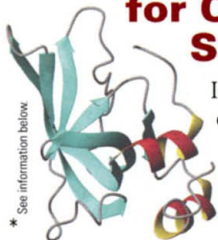
**CLAREMONT, California:** Founded in 1997 to educate life scientists for employment in industry, the Keck Graduate Institute of Applied Life Sciences (KGI) has fewer problems attracting students from a variety of backgrounds than older institutions with long traditions of predominantly white male faculties and student bodies. "Our incoming classes are almost 50-50 men and women," says T. Gregory Dewey, dean of the faculty. "In terms of ethnic groups we see a strong representation of Asians but not as many of the underrepresented minorities. Underrepresented minorities make up 10 percent of our students. Bringing in those minorities is still problematic, but a lot of it is a numbers game. Minorities are coming through the system, but they are snapped up quickly."

Faculty membership also reflects KGI's relative freedom from traditional mores. "We've been very successful at recruiting women at the junior and senior levels," Dewey says. "We have roughly 15 percent women



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Research facilities at MU support centralized services for proteomics, peptide synthesis and recombinant protein expression; automated DNA sequencing and DNA microarraying; monoclonal antibody production and cell sorting; transgenic mice and rats; transgenic plants; confocal and deconvolution microscopy and image processing; scanning and transmission electron microscopy, X-ray crystallography and NMR spectroscopy. The campus is also home to the nation's largest university research reactor.

**And** — a 200,000 square foot, \$60 million Life Sciences Center, designed for state-of-the-art interdisciplinary research, is currently under construction.

### Commitment to Student Success

Recent PhD graduate Sonia Houston says it best: "There is a spirit of collaboration at MU that you don't find other places. I feel that I have been trained very well and am prepared for a postdoc position." MU is also a 2001 recipient of the Council on Graduate Studies/Peterson's Award for promoting an inclusive graduate community. This award is given in recognition of creative approaches in the identification, recruitment, retention and graduation of minority graduate students.

### A Great Place to Live . . .

MU is located in the center of the I-70 corridor through Missouri — just 2 hours from Kansas City or St. Louis. Columbia is a vibrant, well-educated community of diverse cultures and is consistently ranked as one of the nation's most livable cities. Missouri is a beautiful state, with recreational opportunities including the sophistication of big cities, the charm of small towns, and outdoor favorites — hiking and biking trails, lush forests, and the clear waters of the Ozark National Scenic Riverways.

\* Ribbon drawing of human N-TIMP-1 (PDB code 1d2b) inhibitor of angiogenesis and inhibitor of tumor growth. Courtesy of Steven Van Doren, MU Dept. of Biochemistry. Published in the *Journal of Molecular Biology*, January 14, 2000, Vol. 295:257-268.

“As I began looking for postdoc opportunities elsewhere, I realized just how wonderful MU is. There are so many core research facilities here and they are accessible to students. I was encouraged to learn different tools in my research and to work with other people. There is a spirit of collaboration here that you don't find other places. I feel that I have been trained very well and am prepared for a postdoc position.”



**Sonia Houston, PhD**  
Dr. Houston graduated in May 2002 from MU with a PhD in Physiology and is now a postdoctoral fellow at the Medical College of New York, Valhalla, NY.

## Doctoral and Postdoctoral Fellowships and Degree Programs

Doctoral degrees are offered in 28 life science-related departments at MU. A variety of fellowships are available which include a competitive stipend, tuition waiver and health insurance. Graduate students in life science departments may also be eligible to participate in interdisciplinary NIH Training Grants. Post-doctoral fellowships are available in many departments and programs, as well.

A sampling of fellowship-granting life science programs can be found below. For information about other departments and general campus information, visit the MU website at <http://www.missouri.edu>. (Life science departments can also be found at <http://www.biotech.missouri.edu/lifellows>.) The MU Minorities in Science website, located at <http://www.biotech.missouri.edu/mbp/minority>, is a great resource as well.

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<http://www.genderphysiology.org>

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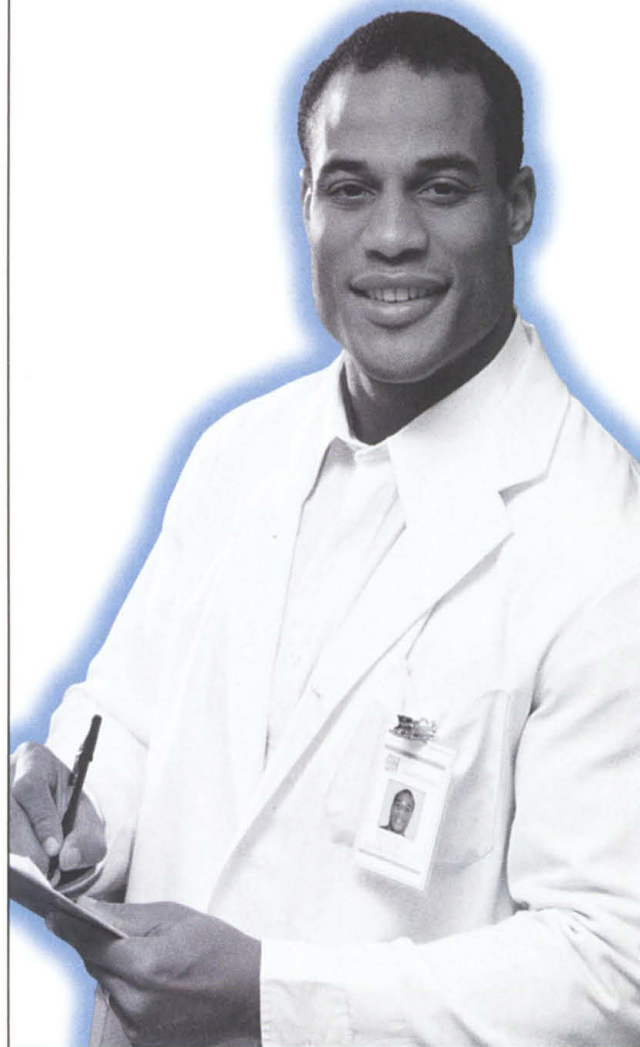
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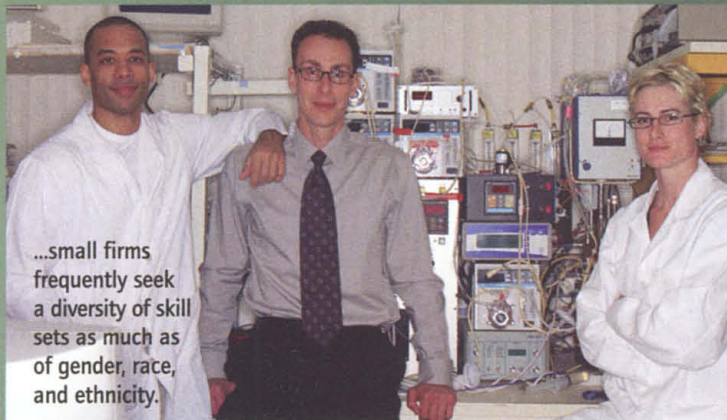
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# diversity

MAKING A DIFFERENCE



...small firms frequently seek a diversity of skill sets as much as of gender, race, and ethnicity.

among full and associate professors and 50 percent at the assistant professor level. We certainly see a lot more younger women scientists."

One reason for the relatively high proportions of women at KGI is its specialization in biology. "You tend to see many more women involved in life science," Dewey points out. The nature of KGI has also played a role in its attraction for female scientists. "We're an institute without departments and we have no disciplinary areas," he explains. "We had no history and so could select a balanced faculty from the start." The institute has also emphasized recruitment of women for senior faculty positions. That, Dewey continues, "enhances our ability to bring in women at all levels."

KGI recruits most of its students through its website and career fairs. Those approaches, Dewey notes, bring in sufficient numbers of female students, but fewer minority members than the institution hopes for. Thus representatives of KGI routinely attend meetings of organizations that work with minority scientists.

How does KGI ensure that recruits stay in the program? "We try to create a culture and environment that are attractive to women and minorities," Dewey says. "We have instituted a student-organized symposium on women in biosciences that brings in women who have been successful in the biotechnology industry. And we are developing a summer training program for women undergraduates."

What advantages does diversity bring to the campus? "I think it helps us to perform our scientific and educational mission better," Dewey says. "Science is such a global enterprise now that the more diverse the population you have, the greater your ability to form collaborations and reach out to a wider population."



PRESTON RANSOM

**URBANA, Illinois:** Although he has retired from active professorial work in the University of Illinois at Urbana-Champaign's College of Engineering, Preston Ransom has continued to pursue another departmental activity that started more than a decade ago. He is director of the Support for UnderRepresented Groups in Engineering fellowship program. Acronymed SURGE, it is a five-year fellowship program aimed

at supporting women, underrepresented minority groups, and persons with disabilities toward the Ph.D. degree.

The work involves a wide range of tasks. "In addition to the SURGE fellowship program I run a recruitment program called MERGE, for Minority Engineering Recruitment for Graduate Education, that brings about 50 young underrepresented minorities to the college at our expense to persuade them to apply to one of the college's graduate programs," he says. "I send letters to deans of engineering across the country and e-mails to chapters of minority student groups. And I visit colleges – including historically black colleges that often don't have graduate programs – to tell them about the university's graduate school and its SURGE fellowship program."

Both women and members of minority groups are underrepresented at the graduate engineering level in Illinois. Women make up 15 percent to 20 percent of undergraduates but scarcely more than 10 percent at the graduate level, while minority students account for just under 10 percent of undergraduates and 5 percent or less of graduate students. "As an African-American I was aware of the problem," Ransom says.

However, he points out that different factors affect the decisions of women and members of minority groups to go on to graduate school in science or engineering. "For ethnic minorities, the main problem is that there's not enough output at the undergraduate level to provide a meaningful increase in the number of graduate students and Ph.D.s," he explains. "We must get more people into the pipeline. This is a long-term problem that goes right back to elementary school." Once in graduate school, minority members have about the same dropout rate as the general population. "But there's definitely a higher dropout rate among women," Ransom says. "We'll often lose them because they don't like the focus or the competition."

Ransom's early work with SURGE revealed an unsuspected factor in causing students to drop out of graduate school or to suffer stress if they remained. "When difficulties are brought to my attention, they often come from the relationship with the grad student's adviser," he explains. "Often the adviser is not aware of the extent of the problem or the extent to which the student perceives it as a problem." In those circumstances Ransom can act as a counselor. "Research fellows like the fact that I'm not in their department," he says. "They don't even want me to do anything sometimes. They just need someone whom they know is there for them."



LAURETTA CESARIO

**SANTA CLARA, California:** Affymetrix, Inc., the corporate godfather of microarray technology, starts out with a strong advantage in developing a diverse work force. "The pharma/biotech industry is way ahead of others in getting women into scientific positions and management," says Laretta Cesario, vice president of human resources.

The firm's lineup gives evidence of that. "Our president [Susan Siegel] is a woman. We have female vice presidents in a number of different areas. The head of our expression area – our largest product group – is a Ph.D. female," Cesario says. "Females make up 55 percent of our scientists."

Those high proportions of female scientists stem in part from the fact that more women major in the life sciences than in other sciences.





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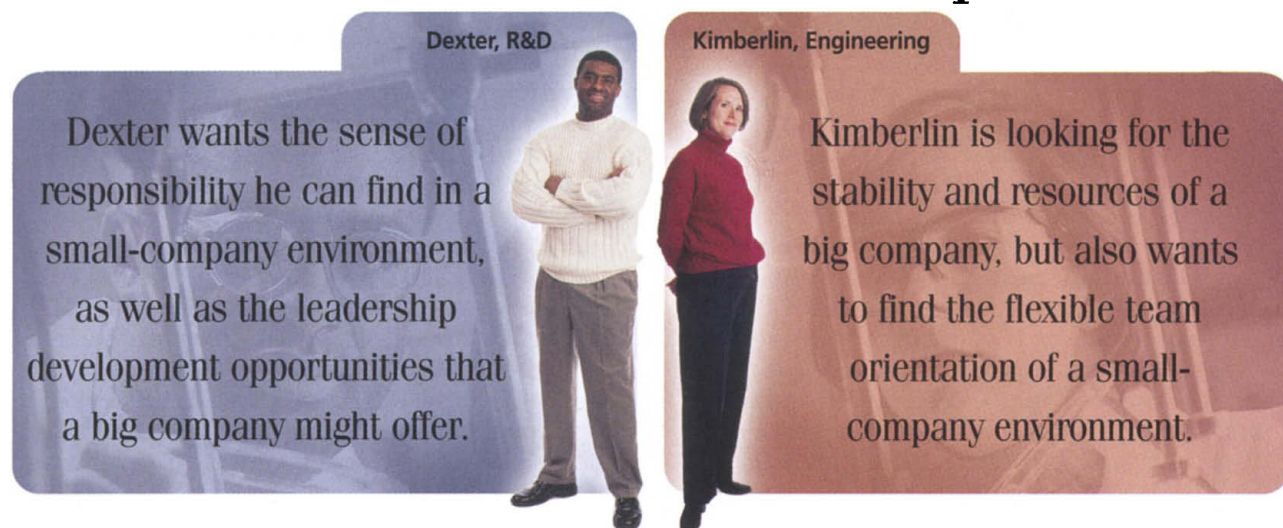
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# diversity

MAKING A DIFFERENCE



In addition, Cesario says, "a lot of young people are going into genomics, where we specialize. The younger scientists, I find, are not so sensitive to male-female and other differences. They expect to move forward based on their talent. To the extent that we deal with a young science, we'll benefit from that group. We're not looking for people with 20 years experience in our field, because they don't exist."

While recruiting a diverse work force is relatively easy, the firm has to make sure that its women and minority scientists aren't tempted to move on. "We're working very hard to retain everyone," Cesario says. "There's very little turnover. That's an advantage of being a leader in the field."

Affymetrix looks at diversity in a broader sense in its overseas operations. There, it aims to attract local talent rather than imposing American executives. "We've just opened an office in Japan run by a Japanese national," explains Cesario. "The head of sales and marketing in our European office is a Londoner. We're also getting half a dozen Ph.D.s from Singapore to work with us for 18 months sponsored by the Singapore government."

She believes the international approach to hiring pays dividends in the market. "The population of our customers, being highly technical, is really challenging us to look at all the possibilities," she says. "Having a diverse work force selling to them says that we're open to new ways of thinking."



DENNIS SMITH

**SANDWICH, England:** "We have seen a dramatic change in the number of people coming through from diverse backgrounds and in the male-female balance among our scientists," says Dennis Smith, executive director of drug metabolism at Pfizer UK and site leader for diversity at the facility. "In the biological sciences we are perhaps seeing a greater number of women than men. Chemistry is also seeing increased numbers coming through; 30 percent of our chemists are female. That's not to say that there's not more work to be done, but it's very encouraging."

The company goes beyond recruiting women and members of under-represented minorities in its thrust for diversity. "We think of the whole of Europe as being one of our sources of diversity," Smith explains. "We have a very active program to bring in a diversity of Europeans. We invite about 90 of the best Ph.D. students from throughout Europe to present their work at a day of tutorials and workshops in the effort to attract them to Pfizer and the discipline of drug discovery."

The program is having an impact on the makeup of the firm's scientific staff. "We have 11 different countries represented on site," Smith says. "A big source of chemists is France. Theoretical chemistry is very strong in Germany, and hence on our site. We also have British minorities, including Africans and Asians, in the department."

The organization takes pains to acclimate newcomers. "We're moving to support network groups formed more or less unofficially that help minorities and people coming in from other countries with all aspects of their work," Smith says. "We want to make sure that people are happy in their work by answering questions that, with our backgrounds, we would not think to ask. One of my roles is helping to bring these groups forward and facilitate the process." Beyond that, he adds, "Pfizer is very keen on mentorship. We will soon follow the example of some of our international sites by setting up web based mentorship programs."

Smith sees the dividends of a diverse work force in the research process. "Whenever you have a scientific theory or hypothesis, the first thing is to challenge it," he says. "When you have a group of individuals brought up and trained in one particular way, the challenges can be limited. With diversity, your people are not all thinking in the same way."



DAVID SMOLLER

**ST. LOUIS, Missouri:** Small firms face fewer formal demands for traditional diversity in their staffs than larger entities. Rather, they seek a diversity of abilities. "We're an equal opportunity employer. We always strive to hire minorities and women and it is important for us to do so," says David Smoller, president and CEO, ProteoPlex, Inc. "At the same time we look at skill sets. We need people with management backgrounds, Ph.D.s, and other skills. We don't want to have all followers and no leaders and vice versa."

The firm, spun off from Incyte Genomics late last year, focuses on technologies that measure multiple proteins and RNAs quickly and efficiently. Smoller's skill based approach to hiring has actually created a staff that is fairly diverse in the conventional sense. "Among our nine employees we have two associates and one senior director who are women and one minority member who is a director," he says. "That looks pretty good from a management point of view, but it was a random event."

Smoller developed his approach to hiring as an executive for Incyte. "We always took the most qualified person," he recalls. "Although there was no formal training program to hire a diverse work force, we developed an environment that was very conducive to hiring women and minorities. Not a lot of minorities enter science in the St. Louis area. But we had women at the top levels, and probably more women than men in the company overall."

In his present position, Smoller seeks a combination of specific skill sets and experience, particularly in management roles. That's often difficult, he says, because the field is so new. "Young managers, hired because they are the only ones with experience in the science, can really hurt you if they don't have managerial skills," Smoller says.

What should young scientists do to make themselves attractive to small startup life science firms? Put simply, learn and develop skills beyond the lab. "Finding diversity within individuals," says Smoller, "is a huge advantage."

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*A former science editor of Newsweek, Peter Gwynne writes about science and technology from his base on Cape Cod, Massachusetts, U.S.A.*





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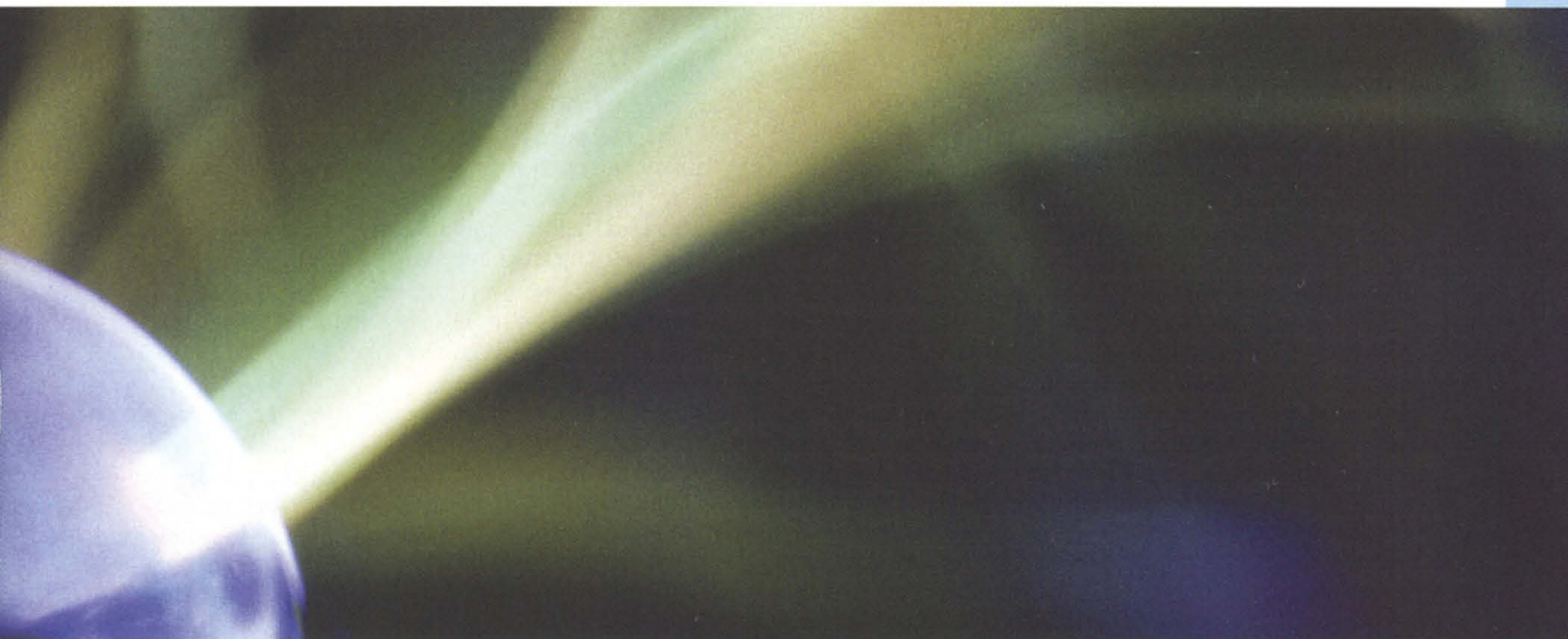
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1. Broad background in science and/or engineering with experience in one of more of the following: atmospheric, oceanic and/or environmental science.
2. Broad knowledge of the technological applications and policy issues that motivate oceanic and/or atmospheric research.
3. Substantial experience in research administration and direction in area(s) relevant to OAR's mission.

Please contact **Dede Epstein** at 301/713-0530, x106 for an announcement package (Internet address: [dede.epstein@hmo.noaa.gov](mailto:dede.epstein@hmo.noaa.gov)), including mailing instructions—referring to the announcement number -OR- you may access the entire full-text vacancy from NOAA's Executive Resources Homepage (see below). Incomplete applications will be returned.

<http://www.rdc.noaa.gov/~hmo/er/home>

This vacancy will close on **December 23, 2002**.

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



# Postdoctoral Opportunities in Cancer Research at the Wistar Institute

The Wistar Institute, an independent research organization located on the University of Pennsylvania campus, has National Cancer Institute Training Grant-supported postdoctoral positions available immediately in "Basic Cancer Research." Selected candidates will take interdisciplinary approaches to understand the cellular and molecular basis of cancer, including regulation of gene expression and genome structure and function, the cellular and molecular basis of tumor development and progression, and immunology and immunotherapy.

Applicants will have the opportunity to identify one of twenty participating faculty members in whose laboratory they choose to conduct their postdoctoral research. Candidates must be U.S. citizens or permanent residents with a maximum of three years of postdoctoral training. Minority applicants are strongly encouraged to apply. If interested, please forward your C.V. and three letters of recommendation to the **Human Resources Department (indicating research of interest), The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104-4268. E-mail: [recruit@wistar.upenn.edu](mailto:recruit@wistar.upenn.edu). For more information about The Wistar Institute, visit our Web site at [www.wistar.upenn.edu](http://www.wistar.upenn.edu). EOE/AA/M/F/D/V**

THE WISTAR INSTITUTE

NCI-designated Basic Science Cancer Center



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## Computational Biology Center

Memorial Sloan-Kettering Cancer Center (MSKCC) has launched a major initiative to develop computational methods in both biological and cancer research. The new Computational Biology Center (*cBio*) at MSKCC in New York City (Manhattan) is recruiting an interdisciplinary team of specialists with experience in fields such as: Computer Science, Engineering, Mathematics, Natural Sciences, Biotechnology and Medicine.

*Join us as:*

**Postdocs • Research Assistants • Software Engineers  
Database Experts • Computational Biologists • Project Managers  
Technical Admin Assistant • Web Designers • Sysadmins  
High Performance Computing Experts  
Director Bioinformatics Core • Scientific Research Director**

*cBio* will integrate computational methods, genome information and high-throughput molecular profiling to advance biological research and to discover the organizational principles of complex biological systems. This includes the development of computational simulations of biological processes at different levels of organization and the application of functional genomics and computational biology to help improve cancer diagnostics, prognostics and therapy.

*cBio's* Research Groups, headed by new faculty, will bridge basic and clinical research and collaborate in a tri-institutional research program with Rockefeller University and Weill Medical College of Cornell University. Its Bioinformatics Core facility (BIC) will provide bioinformatics training, infrastructure and support.

Apply to [cbiojobs@mskcc.org](mailto:cbiojobs@mskcc.org)

Scientific contact: [Chris.Sander@mskcc.org](mailto:Chris.Sander@mskcc.org)

Please see our additional ad for Director of a new Bioinformatics Facility

EOE/AA

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—John T. Curnutte, M.D., Ph.D.  
President & CEO

Backed by the powerful resources of Schering-Plough Corporation, DNAX has the built-in infrastructure and reach to succeed in a global commercial arena. As an equal opportunity employer, we welcome men and women of all races, nationalities and ethnic origin, and value the rich diversity of backgrounds, experiences and ideas of our workforce. Visit our website to learn about ongoing opportunities in Immunology, Oncology, Protein and Antibody Engineering and Experimental Pathology. EOE.

[www.dnaxresearch.com](http://www.dnaxresearch.com)

DNAX



## ASSISTANT/ASSOCIATE PROFESSOR BIOINFORMATICS

The Bioinformatics Program at the University of the Sciences in Philadelphia invites applications for a tenure-track Assistant/Associate Professor position in Bioinformatics starting August 15, 2003. This position is part of a new multidisciplinary Bioinformatics Program at USP, which awards both B.S. and M.S. degrees in Bioinformatics. The successful candidate will have a Ph.D. degree in a bioinformatics related field, with post-doctoral experience preferred. The candidate will have the opportunity to collaborate with faculty in the areas of biotechnology, biochemistry and computer science and also participate in related graduate programs. A new state-of-the-art computer facility for both research and teaching in bioinformatics has recently been established. The successful candidate will be expected to develop an active, externally fundable research program and demonstrate excellence in teaching at both the undergraduate and graduate levels.

USP is a university of 2,500 undergraduate and graduate students, with programs in the natural sciences, pharmacy, and other health related areas.

Consult our Web site at  
<http://www.usip.edu/bioinformatics/>  
for additional information.

Applicants should submit a CV, an indication of teaching interests, a research plan, equipment needs, and contact information for three references to: **Bioinformatics Search Committee, Department of Biological Sciences, University of the Sciences in Philadelphia, 600 S. 43rd St., Philadelphia, PA 19104.**

Evaluation of applications will begin December 16, 2002 and continue until the position is filled.



## FACULTY POSITION IN ENVIRONMENTAL HEALTH

The Department of Environmental Analysis and Design in the School of Social Ecology at the University of California, Irvine, seeks a colleague for a position at the Assistant or Associate Professor level in environmental health. The appointment will begin July 2003.

Applicants must have a doctorate in a field relevant to environmental health, and should be prepared to engage in interdisciplinary research including but not limited to risk analysis, emerging risk factors, exposure assessment, and environmental policy. Applicants must have a nationally recognized active research program and teaching experience commensurate with appointment at the respective professorial ranks.

Candidates should submit: (1) a letter describing their research and teaching interests; (2) a curriculum vitae including email address; (3) three representative publications; and (4) contact information for five references to: **Stephanie Sweeney, Department Manager, Department of Environmental Analysis and Design, School of Social Ecology, University of California, Irvine, CA 92697-7070.**

The position will remain open until filled, but applications received by **December 31, 2002** will have priority.

*The University of California, Irvine has an active career partner program, is an Equal Opportunity Employer committed to excellence through diversity, and has a National Science Foundation ADVANCE Gender Equity Program.*

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### ASSOCIATE SCIENTIST I/II, PROTEIN DESIGN

(Req. Code: 02-0004697)

We seek a qualified candidate to advance the research efforts at Centocor through the conjugation of various molecules to proteins and the synthesis of novel molecules, including peptides. Other responsibilities include the purification and characterization of protein conjugates through HPLC, mass spectrometry and SDS-PAGE. This position also requires writing monthly reports, presentations and attending regular lab and departmental meetings. Qualifications for this position include a minimum of a BA/BS or equivalent work experience in Protein Chemistry, Organic Chemistry and HPLC. Other experience with organic synthesis and the chemical modification of proteins is highly desirable. Strong organization, verbal and written communication skills are essential.

### ASSOCIATE SCIENTIST II/SENIOR ASSOCIATE SCIENTIST, IMMUNOBIOLOGY

(Req. Code: 02-0004884)

Centocor seeks a qualified, highly motivated individual to support the Immunobiology discovery research group as an Associate Scientist II/Senior Associate Scientist. The successful applicant will conduct laboratory research to determine proper means of action of biopharmaceutical therapies for a variety of inflammatory disorders. An interactive scientist, with excellent communication skills, that is willing to work in a team environment is required. Successful candidates will demonstrate expertise in working with animal models of autoimmune disease and inflammation, immunological assays and preparing experimental results for publication and presentation. The candidate will also be responsible for the preparation of written records, including laboratory notebooks, technical reports, and protocols. Working knowledge of the scientific literature is preferred. Qualifications include 5+ years with B.S. or 2+ years with M.S. as an Associate Scientist II; 8+ years with B.S. or 5+ years with M.S. as a Senior Associate Scientist.

### ASSOCIATE SCIENTIST II/SR. ASSOCIATE SCIENTIST

#### Protein Biochemistry

(Req. Code: 02-0004452)

This role will be responsible for developing and executing protein profiling and epitope mapping of novel proteins to validate drug targets and providing assistance in the use of appropriate techniques to determine the biophysical and functional characteristics of proteins and their association with other

proteins. These techniques will be used to aid in protein profiling, epitope mapping and drug discovery. Candidates will be considered if they have a BS/MS degree in Analytical Chemistry or Biochemistry and 2-4 years of relevant laboratory experience. (Those that are conversant with and adhere to laboratory safety procedures for chemicals, biologicals and radiologicals and have training or certification in routine laboratory instrumentation will be considered.)

### RESEARCH SCIENTIST, ONCOLOGY

(Req. Code: 02-0002744)

We have an opportunity for an Oncology Research Scientist. The chosen candidate will be responsible for target validation of genes discovered in genomics, proteomics, and bioinformatics studies. A major component of this role will be the use of bioinformatics, in vitro, and in vivo systems to elucidate the function of these genes that have been implicated in tumor disease processes. Access to state-of-the-art technologies such as Tagman, tissue arrays, confocal microscopy, and cellomics will be provided.

Candidates that will be considered will have a Ph.D. in Cell Biology, Molecular Biology or a related field, 3+ years of research experience in cancer biology and a broad knowledge of cellular and molecular biology to assess the contribution of genes during oncogenic progression. Versatile skills in gene expression modulation (inducible gene expression, conditional gene knockout, anti-sense, DNA enzyme, RNAi), and proven experience in high-throughput and high-content functional assays are highly preferred.

### RESEARCH SCIENTIST, IMMUNOBIOLOGY

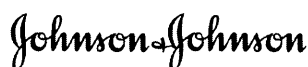
(Req. Code: 02-0004735)

We seek a highly motivated individual to support drug development research efforts for immune modulation in the Department of Immunobiology. This highly specialized position will lead drug discovery efforts through identifying critical drug targets for immune modulation, developing pre-clinical animal models for organ transplantation, and contributing to the clinical development of the products. Maintains written records, technical reports and protocols. Successful candidates possess strong background in Immunology, especially in transplantation, maintain current information from scientific literature, and prepare professional experimental results for publications and presentations. This position requires an M.S. with 3-5 years experience or Ph.D. with 0-2 years of post-doctoral training. Other qualifications include exceptional organization, multi-tasking, leadership and interpersonal communication skills.

Find more. Visit [www.jnj.com/careers](http://www.jnj.com/careers) for more information or to forward your resume. Please reference company and requisition code with all specific applications.

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NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH

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**December 9, 2002**

9:00 am – 5:00 pm

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617-577-0200

See pages 1458 – 1459

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to view job descriptions and apply.



# M.I.N.D. Institute

University of California, Davis

The M.I.N.D. (Medical Investigation of Neurodevelopmental Disorders) Institute at UC Davis is a collaborative, international research center committed to the awareness, understanding, prevention, care and cure of neurodevelopmental disorders whose mission is to find effective treatments and ultimately a cure for autism and other neurodevelopmental disorders. In order to accomplish this mission, an integrated campus of buildings is under construction that includes a 72,338-square-foot outpatient clinical research center, including exam rooms and clinician offices; a 9,695-square-foot resource center and library, and a 27,270-square-foot basic science facility that will provide research laboratory space and offices for faculty and staff. Occupancy of these buildings will take place in June of 2003.

In order to develop, with existing M.I.N.D. and UC Davis faculty, a critical mass of biomedical researchers involved in understanding autism and other neurodevelopmental disorders, the Institute will hire at least six full time faculty in the next two years. The M.I.N.D. Institute therefore invites applications for several full time positions (at all ranks) that would be housed in the M.I.N.D. Institute and will be associated with appropriate academic departments. Areas of particular interest include:

- **Molecular genetics (especially functional genomics)**
- **Neuropathology/Neuroanatomy (to direct the Brain and Tissue Bank)**
- **Immunology/Molecular immunology**
- **Analytical biochemistry/Biomarker research**
- **Pediatric neuroimaging**
- **Human electrophysiology**

Applicants pursuing other areas of biomedical research directly relevant to understanding autism and related disorders are also encouraged to apply. Candidates should send (1) a curriculum vitae; (2) a brief statement of research interests and plans (3) names and contact information for at least three references to: David G. Amaral, Ph.D., Director of Research, M.I.N.D. Research Recruitment, 4860 Y Street, Suite 3020, Sacramento, CA 95817. This position will be "Open Until Filled"; for full consideration, applications should be received by October 31, 2003. The University of California is an Equal Opportunity/Affirmative Action Employer.



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**R & D POSITIONS**  
**Senior Analytical Chemist**

Qualifications include an advanced degree (MS/PhD) in analytical chemistry or closely related science with 3-7 years experience; 3-7 years of experience in analytical proteomic techniques such as MALDI-MS, LC-MS, enzymatic digest, and database searching; and experience in HPLC, amino acid analysis protein sequencing, capillary electrophoresis, SDS-Page electrophoresis and instrument maintenance. Utilization of modern methods of instrumental analysis is highly desirable.

**Principal Scientist: Cell Culture Engineering**

The ideal candidate will possess an advanced degree (PhD) in cell biology, biochemistry or closely related science with 5-10 years pharmaceutical or biotechnology experience. Candidates must have a demonstrated ability to develop and optimize cell culture media for mammalian based systems. Proven experience with bioreactors and process development is essential. Strong statistical analysis, problem solving and experimental design skills along with the ability to independently lead major research projects and supervise/mentor 3-5 scientists are also required. Strong communication and presentation skills with a good publication record are essential. Must have competency with Microsoft Excel, PowerPoint and Word.

To apply for these opportunities, send your resume, indicating the position of interest, to: [kgamber@sial.com](mailto:kgamber@sial.com), Sigma-Aldrich, Human Resources, 3050 Spruce Street, Saint Louis, MO 63103. An Equal Opportunity Employer.

[www.sigma-aldrich.com](http://www.sigma-aldrich.com)

## Molecular Medicine

The Department of Molecular Medicine invites applications for three tenure-track positions at the Assistant Professor level and above. We are particularly interested in candidates focusing on various aspects of regulatory biology relevant to carcinogenesis, cell cycle, tumor suppressor genes, hormonal regulation, growth factors, and DNA repair, although outstanding scientists in other fields of investigation are also strongly encouraged to apply. Applicants for the Assistant Professorship should have postdoctoral training and a substantial record of contributions to the peer-reviewed literature. Applicants for more senior positions should have an established research program and extensive experience in training graduate students and postdoctoral fellows.

We offer highly competitive salaries and an excellent startup package including modern laboratory space, funds for personnel and supplies, and state-of-the-art core facilities. Successful applicants will also be appointed faculty in the Molecular Medicine Graduate Program.

Please send curriculum vitae, a one-page statement of research accomplishments and objectives, and the names of three or more referees by **December 10, 2002** to **Dr. Arun Roy (for senior positions)** or **Dr. Phang-Lang Chen (for junior positions)** at the following address: **Department of Molecular Medicine, University of Texas Health Science Center at San Antonio, 15355 Lambda Drive, San Antonio, Texas 78245-3207.**

For further information about our department and graduate program, please visit our web site at [www.molecularmedicine.uthscsa.edu](http://www.molecularmedicine.uthscsa.edu).

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### ASSISTANT PROFESSOR IN REGULATORY BIOLOGY

The Salk Institute is seeking an outstanding molecular/cellular biologist, at the level of assistant professor, who will complement existing strengths in the molecular genetics and biochemistry of chromatin/chromosome biology, nuclear organization/structure, or transcription and other nuclear regulatory mechanisms, especially as these relate to development, cellular differentiation or cancer. The candidate must have a strong record of research accomplishment and be able to develop an independent research program.

Qualified candidates should submit a curriculum vitae, a summary of current and proposed research programs, and arrange for 3 letters of recommendation to be sent to:

Chair  
Regulatory Biology Search Committee  
The Salk Institute for Biological Studies  
10010 North Torrey Pines Road  
La Jolla, CA 92037 USA

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[www.salk.edu](http://www.salk.edu)



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### NEW OPENING FOR DIRECTOR POSITION

Applications are invited for director position in the Istituto di Ricerche sulle Attività Terziarie - Napoli. The research field of the Institute is service activities and their interdependencies with other sectors of the economic system, in particular:

- Real services to enterprises.
- Logistics and freight transportation.
- Management of tourist enterprises and cultural heritage.

.....  
The deadline for application is December 5<sup>th</sup>, 2002. For detailed information on how to apply - no application must be sent by e-mail - reference should be made to the original and full vacancy notices issued by CNR on the website: <http://www.urp.cnr.it/concorsi.htm>. For any question please send an e-mail to [das.rep3@dcas.cnr.it](mailto:das.rep3@dcas.cnr.it) or contact Franca Rossi, Consiglio Nazionale delle Ricerche - +39-06-49934173.

### NASA Goddard Space Flight Center Visiting Fellows Program In the Earth Sciences

The Goddard Earth Sciences and Technology Center (GEST) and the NASA Goddard Earth Sciences Directorate are seeking highly qualified Ph.D. scientists for collaboration in scientific research relating to the observation, analysis and modeling of physical processes within the earth-atmosphere system, and to relevant global change issues. Selected candidates will be offered appointments as Visiting Fellows to pursue independent research in collaboration with scientists in the Laboratories within the Earth Sciences Directorate, and will have full access to NASA computing facilities and other resources at either the Goddard Space Flight Center in Greenbelt, MD or at the Goddard Institute for Space Studies in New York, NY. This solicitation is aimed at all levels from post-doctoral to senior scientists. We particularly encourage university faculty interested in sabbatical arrangements.

#### Sponsors

GEST is a consortium of three universities (University of Maryland, Baltimore County (UMBC), Howard University, and Hampton University) and two private industry partners (Caelum Research Corporation and the Northrop-Grumman Corporation) working under a Cooperative Agreement with the Goddard Space Flight Center to promote excellence in Earth science research. Goddard Space Flight Center is a world leader in research on the Earth and its environment through the development and use of near-Earth orbiting spacecraft.

#### Research Areas

Research interests in the Earth Sciences Directorate include attaining knowledge and understanding of the components of the Earth system through experimental and theoretical studies using NASA technology, information science, and space observations. The approach includes instrument, algorithm and model development involving remote sensing and *in situ* measurements. The principal components of research and corresponding research interests are as follows:

**Atmospheric Research:** Involves the structural, dynamic, radiative, and chemical properties of the Earth's troposphere, stratosphere, mesosphere and thermosphere and the atmospheres of other planets. Research interests include ozone, clouds, aerosols, precipitation, regional and global climate, fronts, gravity waves, cyclones, thunderstorms, and convective systems. Data derives from various space-based and airborne optical, UV, and IR passive radiometers and laser sensors, and *in situ* spectrometers.

**Terrestrial Physics Research:** Involves geological and geophysical processes of solid Earth and the planets, and global land surface properties, both vegetative and biological. Research interests include Earth and planetary gravity and magnetic fields, Earth's rotation, plate motion, volcanic activity, post-glacial rebound, land surface topography, biospheric processes, vegetation monitoring, and biosphere-atmosphere interactions. Data derives from space and ground based lasers, laser altimeters, field campaigns involving measurements in local ecosystems and the climate/oceanic/biospheric system.

**Hydrospheric Research:** Involves the oceanic, cryospheric and hydrologic sciences. Research interests include the natural variability of the physical climate system on seasonal-to-interannual time scales, the global carbon cycle, global land ice and sea ice cover, the global hydrological and energy cycles, and interactions between the physical climate system and biogeochemical cycles. Data derives from optical, microwave, and laser sensors and *in situ* hydrologic measurements.

**Information Science and Technology Research:** Involves computer science, computer engineering, computational science, and information science research in support of NASA Earth science. Research interests include numerical algorithms and high performance/parallel computing; data assimilation and data fusion; adaptive, multi-resolution modeling; 3-D visualization, feature recognition and multi-dimensional data visualization; and data mining and data management of extremely large distributed data sets. Data derives from various space-based and airborne sensors, field campaigns, and models.

#### Terms of Appointment

Initial appointments are expected to be for periods up to one year with terms and exact start dates negotiable. Visiting Faculty appointments will be made at UMBC. Depending upon the terms of the appointment, it may include benefits and a competitive salary, relocation costs, and a travel budget.

#### Application Procedure

Send your current curriculum vitae and the names and email addresses of three professional references along with a brief proposal (maximum three pages) that contains a statement of research interests, expected contributions to NASA's efforts, and your availability to: **Dr. Robert A. Schiffer, Chief Scientist, Goddard Earth Sciences and Technology Center, 3.002 South Campus, University of Maryland, Baltimore County, 1000 Hilltop Circle, Baltimore, MD 21250, Attn: Goddard Visiting Fellows Program.**

Applicants wishing appointments to commence in fall 2003 should apply by January 17, 2003 to be considered. These applications will be reviewed and selections made by March 21, 2003. Under special circumstances, appointments can be made at other times of the year. Review will be by a panel of university and NASA scientists based on relevance to NASA's missions, expertise and credentials offered, and clarity and feasibility of stated research goals within the proposed time frame and available resources. Compensation will be commensurate with experience and qualifications.

*GEST partners are equal opportunity/affirmative action employers. Applications from women, minorities, and individuals with disabilities are strongly encouraged. Due to NASA Goddard security regulations, citizens of certain nations may be ineligible.*

**FACULTY OPPORTUNITIES IN IMMUNOLOGY**  
**UCLA SCHOOL OF MEDICINE (2 Positions)**  
**CEDARS-SINAI MEDICAL CENTER (4 Positions)**

The David Geffen School of Medicine at UCLA and Cedars-Sinai Medical Center have embarked on a coordinated faculty expansion to build upon existing strengths in basic, translational, and clinical immunology. As part of this initiative, six new immunology faculty positions have been established. Successful candidates will join a highly interactive Immunology research community that is now undergoing a new phase of growth and development. Outstanding space and recruitment packages are available for each position.

*The Immunobiology Research Institute* at Cedars-Sinai is seeking four established and/or junior investigators who use human or rodent models to investigate dendritic cell biology, models of mucosal inflammation, innate immunity, or tumor immunology. Eligible M.D. or Ph.D. investigators will become part of Cedars-Sinai's state-of-the-art Immunobiology Research Institute.

*The Department of Pathology and Laboratory Medicine at UCLA* is seeking a tenure-track Assistant/Associate/Full Professor who is using molecular, genomic and/or proteomic approaches to address fundamental questions regarding immune system development, function, and/or pathogenesis. Individuals whose work provides a platform from which translational/immunotherapeutic initiatives can be launched are highly desirable. Highly qualified Ph.D., M.D./Ph.D. or M.D. candidates whose record is demonstrative of their potential or accomplishment, as research leaders are invited to apply. The position offers innovative investigators the opportunity to interact with graduate and medical student researchers.

*The Division of Rheumatology in the Department of Medicine at UCLA* is seeking an established senior investigator to be appointed at the Associate/Full Professor level. An ABIM board certified rheumatologist with an active laboratory program and transferable funding from national peer reviewed agencies is preferred. The candidate must be a U.S. Citizen or Permanent Resident.

Applicants should send a cover letter regarding the academic program(s) of interest, a curriculum vitae, representative reprints, a brief statement of research interests and references to: **Ms. Dominica Salvatore, Department of Pathology and Laboratory Medicine, MC 173216, The David Geffen School of Medicine at UCLA, 10833 Le Conte Avenue, Los Angeles, CA 90095.**

*The University of California and Cedars-Sinai Health System are Equal Opportunity/  
 Affirmative Action Employers.*



**CEDARS-SINAI MEDICAL CENTER.**

**Faculty Position**  
**Department of Neurobiology**  
**and Brain Research Institute**  
**UCLA School of Medicine**

The Department of Neurobiology and Brain Research Institute of the UCLA School of Medicine invite applications for a tenure-track faculty position at the Assistant Professor level. We seek an outstanding individual with a strong commitment to excellence in research, scholarship and teaching of graduate and professional students. Faculty members are expected to maintain a vigorous, creative and independent research program. We are particularly interested in candidates working in the area of developmental neuroscience and using state-of-the-art molecular approaches; however, applications for outstanding candidates in other areas of neuroscience will be considered as well.

Applicants should have a Ph.D., M.D., or equivalent, and postdoctoral training experience in Neuroscience. The position includes a competitive start-up package, including new or recently renovated laboratories and a salary that will be commensurate with rank and experience. The appointment may start as early as July 1, 2003.

To apply, please send a curriculum vitae, a brief statement of current and future research plans, reprints and the names of 3-5 references to: **Chair, Search Committee, Department of Neurobiology and Brain Research Institute, UCLA School of Medicine, Box 951763, Los Angeles, CA 90095-1763.**

Application deadline: February 1, 2003.

*UCLA is an Equal Opportunity/  
 Affirmative Action Employer.*

**Physician-Scientists**

•Center for Molecular Medicine •Maine Medical Center Research Institute

The Center for Molecular Medicine is currently undergoing a vigorous expansion as a result of NIH funding for the establishment of a Center of Biomedical Research Excellence in Angiogenesis. The Center's major focus is on the molecular mechanisms of human disease including diseases of the cardiovascular system, regenerative medicine, bone and mineral metabolism, and cancer. Applications are invited from physician/scientists holding an M.D. or M.D./Ph.D. degrees who are using modern cell, molecular and/or genetic (vertebrate or invertebrate) methods to elucidate molecular mechanisms of human disease. Individuals performing disease-related translational research are particularly encouraged to apply. Center faculty will have access to excellent resources including generous start-up funds and space in a new state-of-the-art research building. The Center has outstanding core facilities for DNA and protein analysis, confocal microscopy and mouse genetics. In addition, the successful candidate will be encouraged to interact with existing clinical programs at the Maine Medical Center as well as participate in graduate education programs.

Successful candidates will be expected to establish an independent research program that will attract extramural funding and will complement existing basic and clinical research programs at the Center. In addition, candidates with established research programs are especially encouraged to apply. Applicants for senior level positions must have an outstanding record of academic achievement and extramural funding. Areas of interest include the potential clinical application of studies involving protein trafficking pathways, tumor development, vascular remodeling, functional characterization of growth factor, cytokine and cell fate determinant signaling pathways, stem cell biology and the molecular genetics of human bone development, tissue/organ repair and neoplasia.

Rank and salary will be commensurate with qualifications and experience. The Portland area offers an environment rich in cultural and recreational opportunities. Applicants should send curriculum vitae, three letters of reference and a brief statement of research interests to:

**Maine Medical Center, Employment Office, 7 Bramhall Street, Suite M,  
 Portland, Maine 04102, Attn: Dr. Robert E. Friesel, Search Committee Chair  
[www.mmc.org](http://www.mmc.org)**



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**PLANT GENETICIST**

The University of Maine seeks applicants for a research and teaching position in **PLANT GENETICS**, with a focus on the use of molecular approaches for the genetic improvement of potato. This is a tenure-track, 70% research-30% teaching, academic-year position at the **Assistant Professor** level in the Department of Biological Sciences ([www.umesci.maine.edu/biology/](http://www.umesci.maine.edu/biology/)). The successful candidate is expected to establish an externally funded and nationally recognized research program in potato breeding and genetics. Teaching responsibilities include an undergraduate course in an area of plant biology or genetics each year and a graduate course, potentially team-taught, in the candidate's area of specialization every other year. A Ph.D. in plant genetics or a closely related field and experience in the use of molecular tools for plant improvement are required. Working knowledge of the genetics of potato, a strong interest in genomics, and postdoctoral experience are preferred. This is a modification of a new position announced last spring.

Review of completed applications will begin 1 February 2003 and continue until a suitable applicant is hired. Applicants should submit curriculum vitae, statement of research and teaching interests, and representative published papers. Applications and three supporting letters should be addressed to:

**Chairperson**  
**Plant Geneticist Search**  
**Department of Biological Sciences**  
**University of Maine**  
**5751 Murray Hall**  
**Orono, ME 04469-5751**

*The University of Maine is an EO/AA Employer. We strongly  
 encourage women and minorities to apply.*



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## Un

a unique and prestigious  
participatory experience

### He

**Help** shape science and technology policy in Washington, DC. Contribute scientific and technical information and external perspectives to federal decision-making, while learning how government works. The AAAS fellowship programs provide a unique participatory public policy experience for scientists and engineers, through one-year assignments involving domestic and international science policy issues in the Congress and several executive branch agencies. Stipends begin at \$58,000.

### Ap

**Applicants** must have a PhD or an equivalent doctoral-level degree by the application deadline from any physical, biological or social science, any field of engineering, or any relevant interdisciplinary field. Individuals with a master's degree in engineering and at least three years of post-degree professional experience also may apply. U.S. citizenship is required. Federal employees are not eligible. Approximately 50 fellowships are awarded in nine different programs. Underrepresented minorities and persons with disabilities are encouraged to apply.

### Be

The fellowship year **begins** September 1, 2003. Fellows attend a two-week orientation before beginning their assignments and participate in a year-long seminar series on topics relevant to science, technology and public policy. Application deadline is January 10, 2003.

### Pl

Fellows are **placed** in the Congress, the National Science Foundation, the National Institutes of Health, the Department of State, the Department of Defense, the Agency for International Development, the Environmental Protection Agency, the Department of Agriculture, the Food and Drug Administration and other federal offices.

### Op

AAAS sponsors these programs to provide the **opportunity** for accomplished and societally-aware scientists and engineers to participate in and contribute to the public policy making process of the federal government. The programs include:

- Congressional Fellows
- Diplomacy Fellows
- AAAS/NIH Science Policy Fellows
- AAAS/NSF Science and Engineering Fellows
- Defense Policy Fellows
- Environmental Fellows
- AAAS/NTI Fellows in Global Security
- Roger Revelle Fellows in Global Stewardship
- Risk Policy Fellows in Health, Safety and the Environment

### In

For application **instructions** and further information:  
AAAS Science and Technology Policy Fellowship Programs  
1200 New York Avenue, NW  
Washington, DC 20005  
Phone: 202/326-6700  
E-mail: [science\\_policy@aaas.org](mailto:science_policy@aaas.org)



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American Association for the Advancement of Science



**U.S. Department of Agriculture,  
Agricultural Research Service:  
Interdisciplinary; Chemical  
Engineer, Research Chemist,  
Research Food Technologist,  
GS-12/13/14**

The USDA, Agricultural Research Service, is recruiting a research food technologist, research chemist, or chemical engineer for the Subarctic Agricultural Research Unit in Fairbanks, Alaska. The mission of this unit is to conduct research to develop effective and economical utilization of byproducts from fish processing, particularly to convert these waste byproducts into high-value, useful products. The incumbent (1) characterizes processed and separated waste stream components to identify chemical constituents that have value-added uses or that enhance the nutritional or feeding acceptability of processed fish or animal feeds; and (2) conducts basic studies leading to a better understanding of factors influencing the effects of specific constituents and/or their interactions on end-product quality and value. This will involve chemical and biochemical analysis of the process waste stream components, determining which byproducts can be effectively treated to alter them into nutritious feed supplements, and/or developing processes to remove non-nutritious components. The incumbent will also develop techniques for extracting, processing, and storing high-value minor constituents of the waste byproducts that may contribute to the economic viability of waste byproduct processing.

The research program is cooperative with the University of Alaska **School of Fisheries and Ocean Sciences** at Fairbanks, Alaska, with temporary work assignments at Kodiak, Alaska. Salary is commensurate with experience (Starting: \$49,959.00 - \$91,265.00 Per Annum Plus 25% COLA). A Ph.D. is preferred. U.S. Citizenship is required. For more information contact Dr. Michael Shannon at 510-559-6071, or see the vacancy announcement ARS-X2W-2471 on our web page at [www.ars.usda.gov](http://www.ars.usda.gov). Applications must be postmarked by December 20, 2002.

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**POSITION ANNOUNCEMENT**

**DIRECTOR,  
NEW JERSEY SEA GRANT  
EXTENSION PROGRAM**

The New Jersey Marine Sciences Consortium (NJMSC) seeks a highly qualified candidate to fill a vacancy for Director, New Jersey Sea Grant Extension Program. The incumbent will be trained, preferably to the post-doctoral level, in a field of Fisheries Science, with preference given to individuals specializing in Population Dynamics, Fisheries Modeling, Fisheries Statistics and/or Fisheries Ecology. The primary focus of the successful candidate will be on developing a fisheries research program and developing "technology transfer" tools for Sea Grant Extension. Other duties will include interactions with stakeholders, Sea Grant Principal Investigators, and assisting the Sea Grant Director with the Omnibus Proposal. Incumbent will manage outreach activities in programmatic areas of the Sea Grant Strategic Plan relevant to all NJ stakeholders. It is expected that the Director will qualify for an academic appointment at a Member Institution.

Minimum requirements are a Ph.D.; administrative and interdisciplinary program experience and a solid record of publications and grantsmanship preferred.

A letter of interest, curriculum vitae, a brief statement of philosophy for coastal resources management, and names and addresses of three (3) references should be addressed to: **Dr. Michael P. Weinstein, President & CEO, New Jersey Marine Sciences Consortium, Sandy Hook Field Station, Bldg. #22, Fort Hancock, NJ 07732.**

Applications are due by COB Friday, **3 January 2003.**

*NJMSC is an Equal Opportunity/Affirmative Action Corporation.  
Proper documentation of identity and employability required  
at the time of employment.*

**POST-DOCTORAL RESEARCH FELLOWS**

The Blood Center of Southeastern Wisconsin, an internationally recognized leader in vascular biology, molecular hematology, transplantation immunology, and transfusion medicine research, is seeking outstanding candidates to fill NIH-funded Post-doctoral Training Grant positions at its Blood Research Institute (BRI). The BRI provides state-of-the-art facilities, and offers an excellent environment for scientific interaction and interdisciplinary collaboration. Opportunities are available with Blood Center investigators in the following areas:

- **John W. Adamson, MD** - Stem cell biology, ex vivo expansion and transplantation; cytokine-induced platelet production.
- **Richard H. Aster, MD** - Pathogenesis of immune disorders affecting blood cells.
- **Joan C. Gill, M.D.** - Molecular diversity of the immune response to Factor VIII in patients with hemophilia.
- **Jack Gorski, PhD** - Molecular genetic analysis of T cell repertoires.
- **Cheryl Hillery, MD** - Mechanisms of vaso-occlusion in sickle cell disease.
- **Robert R. Montgomery, MD** - Molecular and cellular biology of von Willebrand factor and platelet glycoprotein Ib.
- **Michael W. Mosesson, MD** - Fibrin formation and its role in angiogenesis; mechanisms of thrombophilia in dysfibrinogenemias.
- **Peter J. Newman, PhD** - Cell adhesion and signaling receptors in vascular cells.
- **Hartmut Weiler, PhD** - Function of blood coagulation in development.

Because these positions are funded through an NIH Training Grant, only American citizens or permanent residents are eligible to apply. Qualified applicants should send curriculum vitae, a brief description of recent research, and the names and telephone numbers of three references to: **John W. Adamson, M.D., Director, Blood Research Institute, The Blood Center of Southeastern Wisconsin, P.O. Box 2178, Milwaukee, WI 53201-2178. [www.bloodcenter.com](http://www.bloodcenter.com)**

**THE BLOOD CENTER  
OF SOUTHEASTERN WISCONSIN, INC.**



AA/EDE

**ANIMAL BIOTECHNOLOGY-GERMLINE  
MODIFICATION  
ASSISTANT/ASSOCIATE PROFESSOR  
DEPARTMENT OF PHYSIOLOGY  
MICHIGAN STATE UNIVERSITY  
COLLEGE OF VETERINARY MEDICINE**

The Department of Physiology at Michigan State University seeks applicants for a full-time tenure system position in the area of animal biotechnology, as part of a larger effort to build a center of excellence around animal biotechnology as it relates to animal agriculture, and biomedical applications. The candidate will be expected to develop an independent research program directed at the underlying molecular mechanisms of disease and use germline modification approaches in their investigation. Applicants must have a Ph.D. degree or equivalent, and special consideration will be given to candidates also holding the DVM degree. Candidates must have postdoctoral experience, demonstrate potential for developing a vigorous externally funded research program, and be capable of outstanding teaching in the department's education program.

Review of applications will begin January 1, 2003, and continue until the position is filled. Applicants should request letters of recommendation from three individuals who can evaluate their accomplishments and future potential for research and teaching. Please send C.V. and bibliography, a brief statement of research plan, and copies of key publications to: **William S. Spielman, Ph.D., Department of Physiology, 2201 Biomed Phys Sci Bldg, Michigan State University, East Lansing, MI 48824-3320. (Email: [spielman@msu.edu](mailto:spielman@msu.edu)).**

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## Director of Laboratory Safety and Security

The Wadsworth Center enjoys a century of excellence as a research-intensive public health laboratory. Investigators explore scientific frontiers -- emerging infections, genetics, bioinformatics -- for solutions to health problems. The staff of 1,100, including 160 doctoral level scientists, screen for disease, detect outbreaks, monitor health hazards, and assure laboratory quality. They apply the latest technologies or improve existing ones.

**Duties:** Management and oversight of a comprehensive institutional safety and security program that includes state-of-the-art biological containment facilities. Safety responsibilities include but are not limited to: emergency preparedness/mobilization; safe handling of chemical, radiation, laser, biosafety and related programs; and security of the Center's five locations.

**Qualifications:** Doctorate in Microbiology or Environmental Health and Safety and three years of professional experience in an appropriate field as a biosafety professional; experience with biohazardous agents emphasizing work on infectious diseases; knowledge of biological/chemical/nuclear weapons; and experience in/with BSL-3 or BSL-4 conditions. Salary commensurate with qualifications and experience.

**To Apply:** Submit a letter of application, CV and the names of three professional references to Human Resources Management Group, DLSS/LCB, Room 2276, Corning Tower, Empire State Plaza, Albany, NY 12237-0012 or by e-mail to [resume@health.state.ny.us](mailto:resume@health.state.ny.us) with a subject line DLSS/LCB or by fax to (518) 474-6771. AA/EOE.

[www.wadsworth.org](http://www.wadsworth.org)

Science in the Pursuit of Health

**Wadsworth Center**

New York State Department of Health

## Vanderbilt University

Graduate Program

in

Chemical and Physical Biology

**The Chemical and Physical Biology (CPB) Program at Vanderbilt University invites applications for entry in the Spring, Summer, and Fall of 2003.**

This transinstitutional program, which spans 12 participating departments in the College of Arts & Science and the School of Medicine, is designed for applicants having earned undergraduate degrees in the quantitative sciences (chemistry, computer science, engineering, mathematics, or physics) who wish to pursue graduate training at the interface of these disciplines with the biological sciences. No prior coursework in the biological sciences is required for admission to the CPB Program.

A wide range of research opportunities in the general areas of Biophotonics, Biotechnology, Cardiac and Neural Electrophysiology, Cellular Biophysics, Chemical Biology, Computational Biology, Molecular Neuroscience, Molecular Biophysics, Proteomics, Statistical Genetics, and Structural Biology are readily accessible to program participants. The CPB Program provides full financial support to all successful applicants and offers a variety of competitive scholarships to highly qualified students.

For more information, contact:

Michelle Grundy, Ph.D.

Director of Recruiting

[michelle.grundy@vanderbilt.edu](mailto:michelle.grundy@vanderbilt.edu)

(800) 810-8993

<http://www.vanderbilt.edu/grad-ed/cpb>



*Vanderbilt University is an equal opportunity employer and encourages applications from all individuals independent of gender, race, nationality, age, or disability.*

## MONTANA STATE UNIVERSITY

### VICE PROVOST for the DIVISION OF HEALTH SCIENCES

And

### MONTANA STATE UNIVERSITY and UNIVERSITY OF WASHINGTON

### DIRECTOR OF THE MSU WWAMI MEDICAL EDUCATION PROGRAM

The Vice Provost provides leadership in education, research, and outreach for the newly established Division of Health Sciences at MSU and serves as Director of the MSU WWAMI program, a regional medical education program operated in cooperation with the University of Washington School of Medicine. A scholar and educator of exceptional ability is sought to provide creative guidance and outstanding leadership. The individual must be tenurable in one of the biomedical or health sciences departments. Nominations and applications are sought.

Questions can be addressed to **Robert Swenson** at (406) 994-4241 or [rswenson@montana.edu](mailto:rswenson@montana.edu). A complete vacancy announcement and details of the application process can be viewed at: <http://www.montana.edu/level2/jobs.html>.

*MSU is an ADA/AA/EO/Veteran's Preference Employer.*

## CENTER DIRECTOR

The U.S. Department of Agriculture (USDA) is seeking candidates for the position of Director of the Plum Island Animal Disease Center (PIADC) at Greenport, New York. PIADC is the principal USDA laboratory for research and diagnosis of animal diseases which are exotic to the United States. Duties of the Director include direction and coordination of the research and diagnostic programs as well as the overall operation and management of the Center. Research is funded and administered through the Agricultural Research Service (ARS). The Foreign Animal Disease Diagnostic Laboratory is funded and administered through the USDA Animal and Plant Health Inspection Service (APHIS). The Director represents ARS and APHIS in communications in the veterinary and biomedical communities, representatives of other governmental agencies, congressional staff, livestock producers and commodity groups, news media and the general public, on foreign animal diseases.

The successful candidate will have the DVM or equivalent degree, demonstrated skill in organizing and leading multidisciplinary teams of scientists, and a strong record of personal research accomplishments. A Ph.D. or equivalent degree is highly desirable. This is a Senior Executive Service position with a salary range from \$130K to \$138K, depending on qualifications. U.S. citizenship required. For further information about the position, please call **Mrs. Wilda Martinez** at 215-233-6593. For application procedures, call **Stacy Aldrich** at 301-504-1448, or e-mail [saldrich@ars.usda.gov](mailto:saldrich@ars.usda.gov). Applications must be received by **January 17, 2003**.

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Agricultural  
Research  
Service



United States  
Department of  
Agriculture





Memorial Sloan-Kettering Cancer Center is the world's oldest and largest institution devoted to prevention, patient care, research, and education in cancer. We are leaders in biomedical research and in translating the latest research to advance the standard of cancer care worldwide. MSKCC imaging resources consist of 9 individual core laboratories, all equipped with the latest technology.

### Molecular Imaging/Oncology Training Fellowship

The goal of this 2-year training program in molecular imaging and oncology research will be to train a new generation of researchers, facile with developments in cancer biology. The program will combine didactic courses and hands-on experience with the latest technological advances in molecular imaging. This will include CT, NMR, PET and optical imaging for application to basic, translational and clinical cancer research.

Proficiency in physics, chemistry and computer science, and a strong interest in molecular targeting probes as vehicles to advance the understanding of cancer through medical imaging required. Physicians who have completed sub-specialty training in a relevant imaging or clinical discipline and post-doctoral PhDs with specialized skills in cellular and/or molecular biology, or related discipline are encouraged to apply.

### Molecular Imaging Program Coordinator

The above program will train radiology fellows and post graduate research scientists in state-of-the-art molecular imaging techniques relevant to cancer research. Responsibilities include the management of this newly established educational program. Develop, implement and monitor the molecular imaging curriculum and courses; conduct on-going program assessment; and work with the attending residents and fellows.

Graduate degree in a medical/research/education related field with 3-5 years relevant management experience required. Experience developing educational programs/curriculums, as well as monitoring/evaluating student and teacher performance required. Human resources and budget management is essential. Candidates with computer skills and a demonstrated ability to utilize multimedia educational technologies and various education delivery models preferred.

Please submit your CV, 2 letters of reference and a 2 page statement of research interests (for fellowships) or career goals (for Prog. Coord.) to **Dr. Hedvig Hricak, Chairman of Radiology, MSKCC, Room C-278, Department of Radiology, 1275 York Avenue, New York, NY 10021. Fax-212-794-4010. Email: pielsm@mskcc.org** EOE/AA



**Memorial Sloan-Kettering Cancer Center**

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[www.mskcc.org](http://www.mskcc.org)

## FACULTY POSITION IN NEUROSCIENCE

The Department of Neurobiology and Pharmacology of the Northeastern Ohio Universities College of Medicine (NEOUCOM) (website: [www.neoucom.edu](http://www.neoucom.edu)) seeks applications for a tenure-track position with primary teaching responsibilities in the Medical Neuroscience course. Educational background in neuroanatomy is a plus. Proposed starting date of July 1, 2003 or as soon thereafter as possible. Emphasis will be on recruitment at the assistant or associate professor level. Candidates must have an earned Ph.D. and/or M.D. and at least 2 years of postdoctoral research experience. Applicants must demonstrate research productivity and the capability of establishing an externally funded research program. Current research interests in the department include sensory and auditory processing in the CNS, neurochemical anatomy and steroids in the nervous system, neuroimmunology, neuroplasticity, neuropathic pain, mechanisms of synaptic modulation, regulation of neural gene expression using a zebrafish model and molecular correlates of Alzheimer's and neurodegenerative diseases. Individuals working in areas that complement ongoing research are particularly encouraged to apply. Successful candidates will teach medical and graduate students, participate in an interdisciplinary graduate program, and develop graduate courses in their field of expertise. Females and underrepresented minorities are especially encouraged to submit an application.

NEOUCOM participates in a consortium with Kent State University, University of Akron, Youngstown State University and eight teaching hospitals to offer combined B.S./M.D. degrees. Basic medical science faculty participate in Ph.D. graduate programs in conjunction with the School of Biomedical Sciences at Kent State University. Graduate training opportunities in Biomedical Engineering are available in collaboration with the Institute for Biomedical Engineering Research at the University of Akron.

Applicants should send a letter of application accompanied by curriculum vitae, a statement describing teaching experience, research interests, goals and plans for external support, as well as the names and complete addresses of three references by January 3, 2003. Send materials to:

**Northeastern Ohio Universities College of Medicine**  
4209 St. Rt. 44, PO Box 95, Rootstown, OH 44272-0095  
c/o Raymond E. Papka, Ph.D., Professor and Chair  
Department of Neurobiology and Pharmacology  
or e-mail [jobs@neoucom.edu](mailto:jobs@neoucom.edu)



**NEOUCOM**  
NORTHEASTERN OHIO UNIVERSITIES  
COLLEGE OF MEDICINE

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**PARTNERS.**

### Assistant and Associate Professors Harvard Medical School-Partners Healthcare System Center for Genetics and Genomics

The Center is a newly created academic unit whose goal is to promote genetics and genomics in research and clinical medicine. The Center is seeking to recruit one or two junior faculty this year to join an exceptional group of senior faculty. Successful candidates will have appointments in the Departments of Genetics and/or Medicine at Harvard Medical School and an appointment at the Brigham and Women's Hospital or Massachusetts General Hospital. We are seeking outstanding applicants with research interests in the use of genetic approaches to common traits and disorders, population genetics/genetic epidemiology/statistical genetics, genetic models of human diseases and bioinformatics. The Center offers exceptional scholarly and scientific resources and the opportunity to teach graduate students, medical students, and/or residents and fellows in genetics, genomics and related sciences.

Applicants should submit curriculum vitae, a brief (500 word) description of research interest and three letters of reference. Applications should be received by **December 31, 2002**. Electronic submission of materials is encouraged. Please send materials to:

**Dr. Raju S. Kucherlapati**  
Chair, HPCGG Search Committee  
Thorn 917, 20 Shattuck Street  
Boston, MA 02115  
[awald@partners.org](mailto:awald@partners.org)

*Harvard Medical School and Partners Healthcare are Equal Opportunity/Affirmative Action Employers with institutional commitments to diversity in their faculty.*



### Assistant Professor and Dunbar Scholar

Northwestern University Feinberg School of Medicine, Department of Psychiatry and Behavioral Sciences, invites applications from neuroscientists working in basic science areas related to depressive disorders. Appointment will be at the tenure-track Assistant Professor level; the position carries the Dunbar Scholar Endowment. The successful candidate will be expected to establish and maintain an extramurally funded research program with international visibility and participate in the training of Ph.D. candidates. Northwestern offers a collaborative environment that includes strong ties to the Northwestern University Institute for Neuroscience and the Center for Genetic Medicine. Applicants who are applying molecular/genetic approaches to fundamental questions of emotional behavior are especially encouraged to apply.

Applicants should send a CV, a statement of research interest and future goals, reprints of recent papers, and three letters of recommendation to: **Eva. Redei, PhD, Asher Center for the Study and Treatment of Depressive Disorders, Department of Psychiatry and Behavioral Sciences, Northwestern University Feinberg School of Medicine, 303 E. Chicago Ave, Ward 9-198, Chicago, IL 60611.** Application review will begin January 1, 2003.

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**DEAN  
COLLEGE OF SCIENCES AND HUMANITIES  
BALL STATE UNIVERSITY  
MUNCIE, INDIANA**

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**FACULTY POSITION – GENETICS OF BREAST CANCER**  
**INDIANA UNIVERSITY SCHOOL OF MEDICINE**  
**Department of Medical and Molecular Genetics**

As part of the Indiana Genomics Initiative, the Department of Medical and Molecular Genetics is seeking qualified applicants for a tenure-track position at the Assistant or Associate Professor level. Individuals with a research focus in the genetic aspects of breast cancer are sought. Competitive candidates must have Ph.D. or M.D. postdoctoral experience and have a clear record of research productivity and teaching commensurate with experience level. The successful candidate will be expected to develop a dynamic, independently funded research program.

The successful candidate will join a department composed of clinical and basic science faculty. The department has a longstanding excellence in clinical genetics, cytogenetics, molecular genetics, and population genetics. The gene transfer expertise of the Indiana University Vector Production Facility, a NIH-designated National Gene Vector Laboratory, is also located within the department. Faculty members participate in research, teaching, and training programs in Ph.D., medical residency, and clinical laboratory genetics (American Board of Medical Genetics) and genetic counseling (American Board of Genetic Counseling). Additional information about the department can be found at our website: [www.iupui.edu/~medgen](http://www.iupui.edu/~medgen).

Indiana University is a National Cancer Institute designated Clinical Cancer Center with a major clinical and research focus in breast cancer. Outstanding opportunities for collaborations are available to the candidate and active participation in the Cancer Center is encouraged.

Applications should include a curriculum vitae; a list of publications; a brief description of research accomplishments; a two-page statement of research objectives and teaching interests. Materials should be sent to: **Kenneth Cornetta, M.D., Professor and Chairman, Department of Medical and Molecular Genetics, Indiana University, IB 130, 975 West Walnut St., Indianapolis, IN 46202.**

*Indiana University is an EEO/AA/M/F/D Employer.*



**THE UNIVERSITY OF MICHIGAN**  
**CHAIR, DEPARTMENT OF**  
**MICROBIOLOGY and IMMUNOLOGY**

The University of Michigan Medical School is seeking an academic leader to lead Department of Microbiology and Immunology. Qualifications for the position include a Ph.D. (or equivalent) degree in a relevant scientific field, international stature as a researcher in an area of Microbiology and Immunology, commitment to the highest standards of academic scholarship and teaching, and significant leadership experience in an academic setting.

Please send a letter of interest and a current curriculum vitae by January 1, 2003 to:

**Dr. N. Cary Engleberg, M.D.**  
**Chairman, M/I Chair Search Committee**  
**c/o Office of the Dean**  
**Attn: Stephanie Campbell**  
**University of Michigan Medical School**  
**M4101 Medical Sciences Building I**  
**Ann Arbor, Michigan 48109-0624**

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**GENETICISTS** - The Department of Human Genetics, Virginia Commonwealth University School of Medicine, invites applications for several tenure-eligible Assistant or Associate Professor positions. We seek exceptional candidates pursuing imaginative basic and/or clinical research in genetics. Applicants must have a Ph.D. and/or M.D. degree and two or more years of productive postdoctoral research experience. Assistant Professor candidates must demonstrate their potential to establish an independent, extramurally funded research program. Associate Professor candidates must have an outstanding record of research accomplishments, including active extramural funding. Medical geneticists interested in patient care and research are encouraged to apply. Successful candidates will also participate in the teaching mission of the Department. Attractive salary and start-up packages commensurate with the candidate's qualifications and experience are available. For a detailed overview of our department, please visit our web site at <http://www.gen.vcu.edu>.

Please submit a letter of application specifying the position desired, and include a curriculum vitae, a brief summary of current and future research directions, and the names, addresses, telephone numbers, and e-mail addresses of three references. Send application materials to: **Faculty Search Committee, c/o Dr. Joyce Lloyd, Department of Human Genetics, P.O. Box 980033, Virginia Commonwealth University School of Medicine, Richmond, Virginia 23298-0033. For additional information contact Dr. Joyce Lloyd, Phone:(804)828-9632 Ext. 136, Fax:(804)828-3760, E-mail: [jlloyd@hsc.vcu.edu](mailto:jlloyd@hsc.vcu.edu).**

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 with disabilities are encouraged to apply.*

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**Director, Human Studies Division, Chapel Hill, N.C.  
Announcement #EPA-02-SES-ORD-6263**

EPA is seeking a highly qualified individual to provide executive leadership and management for the Human Studies Division (HSD). This division is housed within the Office of Research and Development's National Health and Environmental Effects Research Laboratory (NHEERL). The successful candidate for this position will provide the vision and direction for the conduct of human health research to address the Agency's priority research needs. As such, he/she will lead and manage the planning, development, and implementation of a multimillion-dollar research program. To learn more about the research program at NHEERL and HSD, please visit our website at <http://www.epa.gov/nheerl/> or contact **Karen Dean** at (919) 541-5037.

**Qualifications:** A bachelors degree (or higher) is required. Desirable applicants will have a doctoral degree (e.g., Ph.D., M.D.) in one of the biological, public health, or physical sciences and several years of experience managing a research program.

**Salary Range:** This is a Senior Executive Service (SES) position. The salary range is \$122,763 to \$134,388, depending on qualifications. In addition, physicians may be eligible for a pay comparability allowance.

**How to Apply:** The official announcement and instructions on how to apply are available at <http://www.opm.gov/>. Click on **USAJobs** on right sidebar; then, under Search Jobs, enter the announcement # or OPM control # ("6263" or "IH5790"). To be considered for this position, you must submit a full application. The application must be received by the closing date of the official announcement. Additional information is available by calling the SES Vacancy Hotline at (202) 564-0435 or writing to:

**US EPA/OARM/OHROS/SES Human Resources Team  
1200 Pennsylvania Avenue, N.W. MC-3650A  
Washington, DC 20460-0001  
ATTN: EPA-02-SES-ORD-6263**

*It is the policy of the Government of the United States to provide equal opportunity in Federal employment for all persons and to prohibit discrimination in employment because of race, color, religion, sex, national origin, handicap, age, or sexual orientation through a continuing affirmative program in each executive department and agency. This agency provides reasonable accommodation to applicants with disabilities. If you need a reasonable accommodation for any part of the application and hiring process, please notify the agency. The decision on granting reasonable accommodation will be on a case-by-case basis.*

**US Citizenship Is Required**



**Hematologist Oncologist  
Rochester, Minnesota**

The Department of Hematology and Internal Medicine is seeking a **BC/BE Hematologist Oncologist** with laboratory-based research experience related to multiple myeloma, with particular focus on bone marrow microenvironment and bone marrow angiogenesis. Laboratory experience in the use of replicating viral vectors for cancer therapy is desirable. The applicant must be experienced in clinical trial design and conduct and in the care of patients with multiple myeloma and amyloidosis. The individual should have a proven track record in blood and marrow transplantation related research. Formal training in clinical research is a requisite.

Salary will be determined by the successful candidate's experience. There is an attractive benefits package. Mayo Clinic Rochester is a non-profit, physician led, clinical practice integrated with education and research in a unified multi-campus system.

Submit curriculum vitae and copies of first authored publications to:

**Dr M.A. Gertz  
Department of Hematology and Internal Medicine  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905**

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**Department of Health and Human Services  
National Institutes of Health  
National Institute of Environmental Health Sciences**

**Tenure-Track or Tenured Position in Bioinformatics**

With nation-wide responsibility for improving the health and well-being of all Americans, the Department of Health and Human Services oversees the biomedical research programs of the National Institutes of Health and those of NIH's research Institutes.

The National Institute of Environmental Health Sciences, a major research component of the National Institutes of Health (NIH), and the Department of Health and Human Services, is seeking a tenure-track investigator with training and experience in bioinformatics. The person selected will focus activities upon developing novel methods related to toxicogenomics. For example, the selectee may develop and evaluate data mining approaches for elucidating characteristic patterns in gene expression array or proteomic data in order to facilitate searches for functionally-coordinated families of genes related to disease processes or response to toxicants. Improved quantitative methods for functional genomics and data-mining are needed to make full scientific use of the toxicogenomics data being produced by the NIEHS Microarray Center and the National Center for Toxicogenomics. Applicants should have a doctoral degree in chemistry, biostatistics, biology, genetics, computer science, bioinformatics or other appropriate discipline, plus relevant experience. The level of appointment and salary will be commensurate with the selectee's background. Time before tenure review will depend upon qualifications, but will not exceed 6 years. For additional information, contact Clarice Weinberg, Chief, Biostatistics Branch, at 919-541-4927 ([weinberg@niehs.nih.gov](mailto:weinberg@niehs.nih.gov)) or Doug Bell, Search Committee Chair, at 919-541-7686 ([bell1@niehs.nih.gov](mailto:bell1@niehs.nih.gov)).

Interested persons should send their curriculum vitae with a statement of research interests, and arrange for three letters of recommendation to be sent by January 15, 2003, to the following address. Applications received after January 15, 2003, will be considered as needed until the position is filled.



Ms. Veronica White (Vacancy HNV03-02)  
NIEHS Human Resource Management Branch  
P.O. Box 12233, Maildrop NH-01  
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## POSITIONS OPEN

### ASSISTANT OR ASSOCIATE PROFESSOR Department of Chemistry University of Minnesota Duluth

The Department of Chemistry at the University of Minnesota Duluth and the University of Minnesota College of Pharmacy Duluth invite applications for a nine-month, tenure-track faculty position (**ASSISTANT or ASSOCIATE PROFESSOR**) with summer salary support. This new position is the result of an expansion of the University of Minnesota College of Pharmacy and can begin as early as June 2003. The Department of Chemistry will be the tenure home with a joint appointment in the College of Pharmacy. The successful candidate is expected to develop excellence in research and contribute effectively to the teaching of biochemistry, advising, and service responsibilities of the chemistry and pharmacy programs.

The successful candidate will have a Ph.D. in chemistry, biochemistry, medicinal chemistry or a related discipline, and postdoctoral experience. A research interest that complements existing strengths in the Department of Biochemistry (<http://www.d.umn.edu/chem/>) and <http://www.d.umn.edu/medweb/biochem/>) and the Department of Medicinal Chemistry (<http://www.pharmacy.umn.edu>) is preferred. Excellent opportunities for collaboration exist with other faculty in the College of Science and Engineering; the U.S. EPA Research Laboratory; the College of Pharmacy; the School of Medicine, Duluth; and the Academic Health Center (UMTC).

Complete applications will be reviewed starting December 2, 2002, and will be accepted until the position is filled. Send an application letter, curriculum vitae, a research proposal, and have three letters of recommendation sent to:

**Dr. Robert M. Carlson, Chair**  
Pharmacy Search Committee  
Department of Chemistry  
University of Minnesota Duluth  
1039 University Drive  
Duluth, MN 55812

Website: <http://www.d.umn.edu/chem>  
E-mail: [rcarlson@d.umn.edu](mailto:rcarlson@d.umn.edu)  
FAX: 218-726-7394

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

Tenure-track **ASSISTANT or ASSOCIATE PROFESSOR** in developmental neuroscience, Department of Neurobiology and Anatomy, University of Utah School of Medicine. Applicants must have a Ph.D., M.D., or equivalent degree and postdoctoral research experience. The ability to develop a very strong, independent research program in nervous system development is of paramount importance. A strong commitment to teaching medical and graduate students is also required. Send curriculum vitae, a statement of research interests, and names and addresses of three references to: **T. N. Parks, Chair, Department of Neurobiology and Anatomy, University of Utah School of Medicine, 20 North 1900 East, Salt Lake City, UT 84132-3401** or to e-mail: [najobapp@neuro.utah.edu](mailto:najobapp@neuro.utah.edu). Deadline is March 1, 2003, or until a suitable candidate is found. Visit our department website: <http://www.neuro.utah.edu>. *Equal Opportunity Employer/Affirmative Action. We strongly encourage applications from women and minorities.*

### ASSISTANT/ASSOCIATE PROFESSOR

One long-term-track faculty position. Begin August 2003. Ph.D. required in cell biology; teaching experience in cell biology/molecular biology. Expected to teach undergraduate students. Experience in small college preferred. Liberal arts environment. Responsibilities include academic advising, committee work. Expected to engage in biomedical research with undergraduates, to write grants, and to publish. Strong record of teaching excellence and scholarship desirable. Letter stating interests; complete résumé; transcripts; and three letters of reference to: **Sr. John Karen Frei, Dean, School of Natural and Health Sciences, Barry University, Miami Shores, FL 33161** by December 20, 2002.

## POSITIONS OPEN

### FACULTY OPENING Theoretical Condensed Matter Physics Washington University in St. Louis

The Department of Physics announces an open search to fill a **FACULTY POSITION** in condensed matter theory as one of several hires designed to enhance the university's cross-disciplinary initiative in materials science. Consideration will be given to outstanding applicants at both tenure-track and tenured professional levels. In either case, we are seeking candidates whose research achievements (relative to their experience) are exceptional and who exhibit a strong aptitude for teaching and mentoring both undergraduate and graduate students. The appointment will begin fall 2003. Applications consisting of curriculum vitae; list of publications; statement of research plans; and teaching prospectus together with full contact information (address, telephone, FAX, and e-mail) for at least three references (five in the case of senior candidates) should be sent to: **Professor John W. Clark (CMT Search), Department of Physics, Campus Box 1105, Washington University, 1 Brookings Drive, St. Louis, MO 63130-4899**. Applications will be considered until the position is filled but priority will be given to those received by January 1, 2003. For more information, Telephone: 314-935-6276. *Washington University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

### ASSISTANT PROFESSOR Plant Functional Genomics

University of Illinois at Urbana-Champaign

The Department of Crop Sciences, University of Illinois, invites outstanding candidates to apply for a nine-month, tenure-track faculty position in plant functional genomics with relevance to plant growth, development, or metabolisms using model and/or economic crop systems. Candidates must demonstrate excellent potential to conduct independent research, attract extramural funding, and develop an outstanding teaching program. Applicants must hold a Ph.D. or comparable degree and have postdoctoral experience. The successful candidate will be provided with ample space and a competitive salary package. Full consideration will be given to applications received by January 10, 2003. Proposed starting date is August 21, 2003. A letter of application, curriculum vitae, a statement of research and teaching goals, certified transcripts, and three letters of recommendation are required. Send all materials to: **Chair, Plant Genomics Faculty Search Committee, c/o Carol A. Philippe, Department of Crop Sciences, Turner Hall, 1102 South Goodwin, Urbana, IL 61801**. See complete job announcement at website: <http://www.cropsci.uiuc.edu>. *The University of Illinois at Urbana-Champaign is an Affirmative Action/Equal Opportunity Employer.*

SUNY Potsdam invites applications for a broadly trained Microbiologist for a tenure-track position at the **ASSISTANT PROFESSOR** level beginning August 2003. The candidate's primary responsibilities will be to teach an undergraduate course in microbiology with laboratory for majors as well as a nonmajor course in microbiology for community health majors. The candidate is also encouraged to offer upper-division courses in areas of expertise. Areas of interest may include (but are not limited to) immunology, virology, or mycology. Qualifications include a Ph.D. in microbiology, development of an undergraduate research program, and a strong commitment to teaching. Please send a letter of application, curriculum vitae, names and contact information of three references, a statement of philosophy of teaching and learning, a statement of research interests, and a copy of transcripts (unofficial) to: **Dr. Simone, Chair of Search Committee, Biology Department, SUNY Potsdam, Potsdam, NY 13676**. For further information on our department, please visit our website: <http://www.potsdam.edu/BIOL/BIOLhome.html>. Applications must be postmarked by January 15, 2003. *SUNY Potsdam is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

## POSITIONS OPEN

### CHAIRPERSON, CHEMISTRY Western Michigan University

Western Michigan University invites applications for the position of Chair of the Department of Chemistry beginning fall 2003. WMU is a student-centered, research university of 30,000 students that has a record of excellence in undergraduate education and is dedicated to promoting its graduate programs. We seek applications from dynamic and experienced professionals who will embrace the challenge of advancing our evolving B.S., M.S., and Ph.D. programs and who can lead a department of 18 faculty with diverse specializations in traditional chemical and modern interdisciplinary fields. The Chair will be expected to shape the future direction of the Department through the hiring of additional faculty; set the highest standards of pedagogical and scholarly activity; and promote collaborative, interdisciplinary research, particularly in the areas of environmental chemistry, biotechnology, and nanotechnology. Candidates who have demonstrated the ability to direct a well-funded, internationally competitive research program; demonstrated excellence in teaching; and possess sophisticated and creative administrative skills are strongly encouraged to apply. Applicants should currently have tenure and credentials commensurate with the rank of **FULL PROFESSOR**. Applicants should send a letter of application, curriculum vitae statement of research plans, a description of start-up requirements, and should arrange to have three or more letters of reference sent to: **Dr. Marc W. Perkovic, Department of Chemistry, Western Michigan University, Kalamazoo, MI 49008-3842**. FAX: 269-387-2909; e-mail: [perkovic@wmich.edu](mailto:perkovic@wmich.edu). For more information, visit our website: <http://www.wmich.edu/chemistry>. Review of applications will begin December 15, 2002, and continue until the position is filled. *WMU is an Equal Opportunity Employer/Affirmative Action Employer.*

### FACULTY POSITION

Yale University  
School of Medicine  
Department of Cellular and  
Molecular Physiology

Applicants are solicited for a tenure-track faculty position at the junior or senior level in the Department of Cellular and Molecular Physiology, Yale University School of Medicine. Candidates must hold a Ph.D., M.D., or equivalent degree. The candidate's research interest should be in the general area of molecular, cellular, or systems physiology.

Complete curriculum vitae; statement of research interests and goals; and three letters of reference should be sent by February 1, 2003:

**Dr. Steven C. Hebert, Chair**  
Department of Cellular and Molecular Physiology  
Yale University School of Medicine  
333 Cedar Street  
P.O. Box 208026  
New Haven, CT 06520-8026

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

### FACULTY POSITION IN DEVELOPMENTAL BIOLOGY Department of Molecular Cell, and Developmental Biology

The Department of Molecular, Cell, and Developmental Biology is searching for a Developmental Biologist. Appointment will be considered at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. Applicants with outstanding accomplishments, particularly those using genetic approaches in model organisms, are strongly encouraged to apply.

Submit curriculum vitae, summary of research plans, and names and addresses of at least three references to: **MCDB Faculty Search**; website: <http://www.mcdb.ucla.edu/search.html>. We will begin reviewing applications on November 1, 2002. Visit us at website: <http://www.mcdb.ucla.edu>; also see website: <http://www.uclaaccess.ucla.edu>. *UCLA is an Equal Opportunity/Affirmative Action Employer.*



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Further information and application materials at:

**[www.national-academies.org/rap](http://www.national-academies.org/rap)**

For questions or assistance, contact:

TEL: (202) 334-2760

FAX: (202) 334-2759

EMAIL: [rap@nas.edu](mailto:rap@nas.edu)

MAIL: Associateship Programs

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500 Fifth Street NW, GR322A

Washington, DC 20001

Qualified applicants will be reviewed without regard to race, religion, color, age, sex or national origin.



## ENVIRONMENTAL GENOMICS

### Three (3) Positions Available

Great Lakes WATER Institute  
University of Wisconsin-Milwaukee

The University of Wisconsin-Milwaukee (UWM) Great Lakes WATER Institute invites applications for scientific leaders who will apply the rapidly advancing fields of biotechnology, bioinformatics, and bio-molecular science to the problems of freshwater supplies and security, and to the health of human populations and ecosystems dependent upon them. Supported by the newly created UWM Freshwater Initiative and the Shaw Fund of the Greater Milwaukee Foundation, the WATER Institute is recruiting three new Scientist positions in the areas of **genomics, bioinformatics, and bioengineering**. These permanent, full time, tenure track research positions are open at all ranks for scientists with demonstrated ability or potential to establish vigorous interdisciplinary research programs.

The **Great Lakes WATER Institute** seeks scientists actively engaged in rigorous genomics, bioinformatics, and/or bioengineering research with the ability to utilize these approaches to address questions relevant to the aquatic environment. The ideal candidate will have a willingness to join a multi-disciplinary group of marine and freshwater scientists and a desire to bridge the interfaces between limnology and oceanography, and molecular biology, genomics, bioinformatics and engineering. The WATER Institute is located within one of the country's major metropolitan regions with ready access to scientific and technical resources within a diverse array of major institutions of higher learning, industry and health science. Scientists at the WATER Institute currently collaborate with world-class genomics and bioinformatics centers located in Milwaukee.

**Interested individuals** should visit our website, [www.glwu.uwm.edu](http://www.glwu.uwm.edu), which provides more information about the Aquatic Environmental Biotechnology initiative and other research programs at the WATER Institute. Applicants and Nominees must have a Ph.D. in a relevant discipline, postdoctoral experience is preferred. Please send a cover letter indicating which general area (genomics, bioinformatics, engineering) best describes your expertise, a description of your research interests, a detailed CV, and the names/addresses/email of three references to: Shaw Scientists Committee Chair, Great Lakes WATER Institute, University of Wisconsin-Milwaukee, 600 E. Greenfield Avenue, Milwaukee WI 53204. Submitted materials will be reviewed upon receipt and the positions will remain open until filled. *UWM is an EO/AA Employer*

## FELLOWSHIPS



### THE PITTSBURGH TISSUE ENGINEERING INITIATIVE CALL FOR APPLICATIONS

**POST-DOCTORAL FELLOWSHIP IN TISSUE ENGINEERING**  
*Supported by an Institutional National Research Science  
Award from the*

*National Institute of Biomedical Imaging and Bioengineering*

The Pittsburgh Tissue Engineering Initiative (PTEI) is pleased to invite applicants for its innovative, NIH-supported, two year Post-doctoral Fellowship Program in Tissue Engineering (TE). One new position is available now, to begin in January 2003 or soon thereafter. Two new positions will be available in the next fiscal year. The fellow will pursue training in musculoskeletal TE, encompassing seven focus areas: artificial organs, bioimaging, biomaterials, bone and muscle, gene therapy, stem cell biology, and transplantation. PTEI is a unique consortium of major research institutes and universities in southwestern Pennsylvania, with linkages to biotechnology companies throughout region. Potential training sites for fellows encompass all the programs and laboratories within this network.

The program is unique in that each fellow is assigned a primary and secondary mentor chosen from the member institutions (2/3 to 3/4 of the two years in the primary mentor's lab, the rest in the secondary mentor's lab) and based on correspondence between mentors' expertise and fellows' prior training and desired focus within TE. Potential mentors include M.D.s, D.M.D.s, D.D.S.s, Ph.D.s, and individuals with dual degrees. The fellowship is two years in length, with an optional third year if the mentors and fellow agree. Fellows also receive training in the ethics of research, experimental design, and statistical analysis, and enroll in a basic biotechnology commercialization and intellectual property course offered by Carnegie Mellon University. Ad hoc experiences in local biotech startup companies can also be arranged.

According to NIH/NIBIB eligibility criteria, a trainee must be a citizen or non-citizen national of the U.S. or must have been lawfully admitted for permanent residence (i.e., in possession of a currently valid Alien Registration Receipt Card I-551). Non-citizen nationals are generally persons born in outlying possessions of the U.S. (e.g., American Samoa). Individuals on temporary or student visas are not eligible.

Applicants with a Ph.D., M.D., and related advanced degrees are eligible. A record of scientific achievement is highly desirable, and excellent written and oral English communication skills are mandatory. Starting date is flexible and will be between January 1 and June 30, 2003 for the current position and between July 1, 2003 and June 30, 2004 for the two positions in the next fiscal year. Competitive training stipends and fringe benefits are provided. For more information, please refer to the PTEI website: <http://www.ptei.org>.

Applicants should submit a curriculum vitae, bibliography, a two-page description of research interest, and arrange to have four letters of recommendation sent to:

**Joan F. Schanck, M.P.A., Educational Program Manager**  
**Pittsburgh Tissue Engineering Initiative, Inc.**  
**100 Technology Drive, Cellomic's Building, 2<sup>nd</sup> Floor**  
**Phone: 412-235-5230 • FAX: 412-235-5120**  
**E-mail: [jschanck@ptei.org](mailto:jschanck@ptei.org)**

*PTEI is an Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

### FACULTY POSITION Plant Cell and Molecular Biology Department of Genetics, Development, and Cell Biology

The newly informed Department of Genetics, Development, and Cell Biology at Iowa State University (website: <http://www.gdcb.iastate.edu>) invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in plant cell and molecular biology. Of particular interest are candidates with research focusing on the biology of the nucleus including transcription, chromatin remodeling, cell-cycle regulation, nuclear transport and metabolism, centromere and telomere function, transposition, and recombination. This position is affiliated with the Plant Sciences Institute (website: <http://www.plantsciences.iastate.edu>), an umbrella organization for plant research at Iowa State. Requirements for the position include a Ph.D. or equivalent and postdoctoral experience. Candidates will be expected to establish a vigorous, extramurally funded research program and to participate in graduate and undergraduate education. First-rate laboratory space and generous start-up support are available. To apply, send curriculum vitae, description of research interests, and three letters of recommendation to: **Dr. Dan Voytas, 2208 Molecular Biology Building, Iowa State University, Ames, IA 50011-3260**. Review of applications will begin on December 15, 2002. *Iowa State University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are especially encouraged.*

### ASSISTANT PROFESSOR Genetics/Developmental Biology University of Nebraska at Kearney (UNK)

Tenure track. Teach genetics and developmental biology with associated laboratories; advise biology/health-related programs majors; pursue promotion/tenure requirements; active membership on departmental/college committees/direct NE-BRIN students. Required: earned Doctorate in biological sciences with genetics and developmental biology emphasis; evidence of good communication skills and successful teaching experience. Preferred: grant writing experience. Teaching is first priority at UNK with evidence of potential to conduct reviewable research expected. Starting date: August 2003. Salary and benefits are competitive. Submit applications on or before January 17, 2003, to assure consideration. Send letter of application, current curriculum vitae, three professional letters of reference, and official transcripts to: **Chair, Search Committee, Dr. Paul Twigg, Department of Biology, University of Nebraska at Kearney, Kearney, NE 68849-1140**. Telephone: 308-865-8315; FAX: 308-865-8045; website: <http://www.unk.edu/>. *Affirmative Action/Equal Opportunity/Americans With Disabilities Act.*

SUNY Potsdam seeks a broadly trained Biologist for a tenure-track **ASSISTANT PROFESSOR** position beginning August 2003. The successful candidate will be expected to teach introductory biology courses to both majors and nonmajors, human anatomy and physiology, and upper-division courses in her or his area of expertise. Areas of interest may include but are not limited to plant biology, neurobiology, or bioinformatics. Qualifications include (1) a Ph.D. in the biological sciences; (2) a strong, demonstrable commitment to excellence in undergraduate teaching and learning; and (3) the ability to establish an ongoing research program involving undergraduates. Please send a letter of application, curriculum vitae, names and contact information of three references, a statement of philosophy of teaching and learning, a statement of research interests, and a copy (unofficial) of transcripts to: **Dr. Laura Rhoads, Chair of Search Committee, Biology Department, SUNY Potsdam, Potsdam, NY 13676**. For more information on the Biology Department, please visit the website: <http://www.potsdam.edu/BIO/BIOHome.html>. Applications must be postmarked by January 15, 2003. *SUNY Potsdam is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

## POSITIONS OPEN



### DEVELOPMENTAL BIOLOGIST LEAVE REPLACEMENT

The Biology Department at Swarthmore College invites applications for a one-year faculty leave replacement position at the **ASSISTANT PROFESSOR** level beginning September 2003. Teaching may include an intermediate-level laboratory course in developmental biology, a junior/senior level seminar in one's area of special interest, and participation in a team-taught introductory biology course. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. Interested persons should submit curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: **Developmental Biology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081**. All application materials should be received by January 6, 2003. *Swarthmore College is an Equal Opportunity Employer.*

### TENURE-TRACK POSITION MRI OF HUMAN BRAIN AT NIH

The intramural program in the National Institute of Neurological Disorders and Stroke, NIH, DHHS, is searching for a tenure-track Scientist interested in research in neuroimaging using MRI in humans. Outstanding candidates in any area of the neurosciences or neurological disorders that makes significant use of MRI will be considered. The position is associated with the recently formed Laboratory of Functional and Molecular Imaging (LFMI). LFMI has access to outstanding MRI resources including 1.5T, 3T, and 7T MRI systems for humans, a 4.7T MRI system dedicated for nonhuman primates, and a variety of MRI for smaller animals. There is an outstanding cognitive neuroscience environment at NIH and an outstanding environment for neuroimaging studies of a variety of diseases of the central nervous system. Candidates with a strong interest in specific aspects of brain function or disease that can be studied by MRI and/or with interest in development of specific MRI or image processing techniques are particularly encouraged to apply. Interested candidates should send curriculum vitae; statement of research interests, accomplishments, and future goals; and three letters of recommendation to: **Chair, Search Committee for MRI of Human Brain Function, National Institute of Neurological Disorders and Stroke, 10 Center Drive, Building 10, Room B1D118, MSC 1065, Bethesda, MD 20892**. Or e-mail: [ireland@ninds.nih.gov](mailto:ireland@ninds.nih.gov) by January 15, 2003. *The National Institutes of Health is an Equal Opportunity Employer.*

### TEMPORARY FULL-TIME ASSISTANT PROFESSOR Biology (Environmental Sciences)

Teach introductory environmental science courses, limnology, environmental chemistry, ecotoxicology, hydrology, and related courses to undergraduates majoring in environmental sciences. Advise and mentor students for senior research and field internships. Ph.D. degree in environmental science-related field and two to three years of undergraduate teaching/research experience preferred. Skill in writing successful grants desirable. Salary commensurate with education, training, and experience. Review of applications will begin upon receipt and continue until position is filled. Submit application; curriculum vitae; transcripts; and the names, addresses, and telephone numbers of three references to: **Dr. H. Singh, Interim Chair, Department of Natural Sciences and Mathematics, Savannah State University, P.O. Box 20601, Savannah, GA 31404**. Savannah State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone: 404-679-4501) to award Associate, Baccalaureate, and Master's degrees. *Equal Opportunity Employer/Affirmative Action.*

## POSITIONS OPEN

### CHAIR Department of Ophthalmology and Visual Sciences

The University of Wisconsin Medical School, Madison, invites applications and nominations for Chair of Ophthalmology and Visual Sciences. We seek a recognized leader with an outstanding academic background, strong clinical and research credentials, demonstrated commitment to education, experience in mentoring junior faculty in research and clinical tracks, and proven leadership and management skills. Qualifications include M.D. or M.D./Ph.D. degree; Board certification in ophthalmology; evidence of sustained, high-level leadership experience in an academic setting; and accomplishments as a clinical scholar and teacher that meet the standards for a tenured faculty appointment at the University of Wisconsin-Madison. Applications and nominations should be received by January 15, 2003, to ensure full consideration. Send a letter of interest including an outline of your vision for an academic ophthalmology department; current curriculum vitae; and names, addresses, and telephone numbers of three references to: **Arnold E. Ruoho, Ph.D., Chair, Ophthalmology Chair Search and Screen Committee, c/o Margie Martin, UW Medical School, Room 1225, Medical Sciences Center, 1300 University Avenue, Madison, WI 53706**. Telephone: 608-262-7705; e-mail: [msmartin@facstaff.wisc.edu](mailto:msmartin@facstaff.wisc.edu).

*Wisconsin open records and caregiver laws apply. UW is an Equal Opportunity/Affirmative Action Employer. Women and minorities are particularly encouraged to apply.*

### DEVELOPMENTAL BIOLOGIST

The Biological Sciences Department, California State Polytechnic University, Pomona, invites applications for a tenure-track **ASSISTANT PROFESSOR** position beginning September 2003. Candidates must have a strong commitment to excellence in teaching and research. Teaching responsibilities include an introductory core course in reproduction and development, developmental biology/embryology, and upper-division/graduate courses in area of specialization. The successful candidate is expected to develop an extramurally funded research program involving undergraduate- and Master's-level students. Ph.D. required; teaching and postdoctoral experience is preferred. Candidate is expected to be responsive to the needs of the University's highly diverse student body. Send letter of application including teaching philosophy, research interests and plans, curriculum vitae, three letters of recommendation, and names and contact information for two additional references to: **Dr. Jill P. Adler-Moore, Chair, Developmental Biologist Search Committee, Biological Sciences Department, California State Polytechnic University, Pomona, CA 91768**. E-mail: [jpadler@csupomona.edu](mailto:jpadler@csupomona.edu). Review of applications will begin January 15, 2003. Official transcripts will be required of all finalists. *Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

The Department of Mechanical Engineering, University of California at Berkeley, seeks applications for a tenure-track **ASSISTANT PROFESSOR** position in the area of micro- and nanoengineering. Specific areas may include but are not limited to manufacturing and integration, devices and systems, and/or theory/computation/design. Applicants must hold a Doctorate and should apply in writing by submitting a résumé; statement of research and teaching interests; one copy of each significant publication; and names, addresses and telephone numbers of five professional references to: **Search Committee, Micro- and Nanoengineering, I.D. Number 728, c/o Chairman, Department of Mechanical Engineering, MC Number 1740, University of California, Berkeley, CA 94720-1740**. Only applications postmarked by February 14, 2003, will be considered. Appointment is subject to budgetary approval. *The University of California is an Equal Opportunity/Affirmative Action Employer.*





## FACULTY POSITIONS DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY UNIVERSITY OF MIAMI SCHOOL OF MEDICINE

**BACTERIAL PATHOGENESIS:** Applications for a full-time tenure track faculty position at the Assistant Professor level. An individual utilizing molecular approaches to study bacterial pathogenesis is sought. All applicants should have postdoctoral experience, a strong record of research accomplishments, and a commitment to establishing an externally funded independent research program. Contact: **Gregory V. Plano, Ph.D., Chair, Bacterial Pathogenesis Search Committee.**

**IMMUNOLOGY:** Applications for tenure-track faculty positions at the Assistant or Associate Professor level for investigators with research interests in immunology. Although the specific area of investigation is open, we especially seek candidates that study the molecular basis of lymphocyte differentiation or activation, tolerance, innate immunity, and immunological memory. Contact: **Thomas Malek, Ph.D., Chair, Immunology Search Committee.**

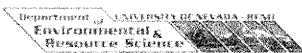
**VIROLOGY:** Applications are available for tenure-track faculty positions at the Assistant or Associate Professor level for investigators with research interests related to viral pathogenesis, including, but not restricted to viral oncology. Candidates should be able to use modern technological or animal model approaches and will be encouraged to participate in research programs existing within the department and the Sylvester Comprehensive Cancer Center. Contact: **Glen N. Barber, Ph.D., Chair, Virology Search Committee.**

Applicants should have a Ph.D., M.D. or equivalent degree, three to five years of postdoctoral training, a commitment to establish an externally funded independent research program, and a willingness to contribute to the Department's teaching efforts. All applicants who wish to be considered at the Associate Professor level should have an established, funded research program. Quality research facilities, start-up funds, and salary support will be provided to the appointees. Interested applicants should send curriculum vitae, statement describing research accomplishments and future research goals, relevant reprints, and the names of three references **to the appropriate Search Committee Chair:**

Department of Microbiology and Immunology  
University of Miami School of Medicine  
P.O. Box 016960 (R-138)  
Miami, FL 33101

*The University of Miami is an Equal Opportunity/Affirmative Action Employer*

### TWO ECOLOGIST POSITIONS Assistant/Associate Professor University of Nevada Reno



The Department of Environmental and Resource Sciences seeks tenure track faculty members in: (1) Spatial/Landscape Ecology and (2) Plant Ecology. Candidates should have a strong interest in both basic and applied research. Candidates must have a Ph.D. in Ecology or closely related field appropriate to the positions. Two years of professional or postdoctoral experience, teaching and grant writing expertise are preferred. The successful candidates will play a central role in teams addressing the ecology and management of Great Basin ecosystems. We expect candidates to develop nationally competitive, externally funded, basic and applied research programs, establish a dynamic graduate training program, work with management agencies, and play an integral role in curriculum development in ERS.

For the Spatial/Landscape Ecology position we will consider candidates with a broad range of interests in spatial patterns at landscape scales, including plant-animal interactions, habitat use and movements of animals, anthropogenic effects, spatial patterns in vegetation or metapopulation patterns. Expertise sought for the Plant Ecologist position includes restoration of disturbed or degraded ecosystems, ecology and control of invasive species, grazing ecology, fire ecology and fuels management, or global change ecology.

ERS houses a diverse faculty, including environmental scientists, forest and range scientists, hydrologists, plant ecologists, soil scientists and wildlife ecologists who participate in several interdisciplinary graduate programs on campus, including Ecology, Evolution, and Conservation Biology, Environmental Science and Health, and Hydrological Sciences. Faculty interact with the Desert Research Institute, university collaborators from the USDA Forest Service, Rocky Mountain Research Station, Agricultural Research Service, and the Great Basin Cooperative Ecosystem Studies Unit.

For details see: <http://www.ag.unr.edu/naes/employ.htm> and <http://www.ag.unr.edu/ers>. Applicants should send a cover letter, statements of teaching and research interests, a current CV and have three letters of reference sent by **January 24, 2003** to: **Carole Rankin, rankin@cabnr.unr.edu, Search Committee Secretary, Dept. of Environmental & Resource Sciences, University of Nevada, Reno/MS 186, 1000 Valley Road, Reno, NV 89512-0013. EEO/AA.**

## UMass Boston College of Arts and Sciences Environmental, Coastal and Ocean Sciences Department

### Assistant Professor

The Department of Environmental, Coastal and Ocean Sciences (ECOS) at UMass Boston seeks a tenure-track Assistant Professor in Environmental, Coastal and Ocean Law to start in the Fall of 2003. The ideal candidate would be expected to have expertise in environmental legal principles and coastal regulatory frameworks. An understanding of and/or experience in coastal environmental/land-use planning is considered desirable. Applicants must have a fundamental commitment to join a multidisciplinary faculty that emphasizes linkages between the social and natural sciences. Preference will be given to a candidate with sincere commitment to interdisciplinary research, who is willing to both initiate and participate in team-based research projects, and whose research complements research by other UMB faculty. Applicants must have a well-conceived research and teaching program, capable of supporting graduate research through external funding. Teaching responsibilities include supervising graduate students and teaching graduate courses in their discipline. A desire to contribute to undergraduate teaching efforts would be viewed positively. Qualifications: J.D. required and L1.M or Ph.D. preferred. See <http://www.es.umb.edu> for information on the department.

Send a cover letter that includes statements of interests and goals in research and teaching, c.v. and three letters of reference to **Office of Human Resources, Search 655, University of Massachusetts Boston, 100 Morrissey Boulevard, Boston, MA 02125-3393**. Application review will begin on January 6, 2003 and continue until position is filled.

An Affirmative Action,  
Equal Opportunity,  
Title IX employer.



University of  
Massachusetts  
Boston  
**UMASS** [www.umb.edu](http://www.umb.edu)

## POSITIONS OPEN

### FACULTY OF ARTS AND SCIENCES

Faculty Positions Available  
Starting September 15, 2003  
American University of Beirut

The Faculty of Arts and Sciences at the American University of Beirut has openings in the following academic departments: Department of Biology: Areas of interest are marine biology, plant environmental sciences, plant systematics, and molecular biology. Successful candidates to this department are expected to supervise the research work of graduate students and teach or share-teach courses at both undergraduate and graduate levels. Department of Chemistry: Areas of interest are inorganic chemistry and analytical chemistry. Appointments are normally at the **ASSISTANT PROFESSOR** level for an initial period of three years beginning September 15, 2003. Visiting appointments and/or appointments at higher ranks may also be considered. The usual teaching load is not more than nine hours a week. The language of instruction is English. Sabbatical visitors are welcome in all fields. The positions require a Ph.D. degree as well as experience in and a strong commitment to teaching and research. Please refer to our employment website: <http://www.aub.edu.lb/jobs/fas> for details and requirements for each position. Interested applicants should send a letter of application and arrange for three letters of reference to be sent to: **Dean, Faculty of Arts and Sciences, American University of Beirut, c/o New York Office, 850 Third Avenue, 18th Floor, New York, NY 10022-6297 U.S.A. or Dean, Faculty of Arts and Sciences, American University of Beirut, Beirut, Lebanon.** E-mail: [as\\_dean@aub.edu.lb](mailto:as_dean@aub.edu.lb). All application materials and letters of reference should be received by January 15, 2003. The review of applications will begin thereafter and will continue until all open positions are filled. Further information can be found at AUB's website: <http://www.aub.edu.lb>. The American University of Beirut is an Affirmative Action/Equal Opportunity Employer.

The Biomedical Engineering Program in the Purdue School of Engineering and Technology on the Indiana University Purdue University Indianapolis (IUPUI) campus is seeking highly qualified individuals to apply for the Thomas J. Linneheimer Guidant Foundation Chair in Biomedical Engineering. This is an endowed, tenured position at the level of **PROFESSOR**. Applicants must have a Ph.D. in engineering or a related discipline and a well-documented research career evidenced by significant publications and extramural research funding. The search would encourage applications from rapidly progressing Associate Professors whose work would merit promotion to Full Professor. The incumbent's research would have a primary application in cardiovascular technology with expertise in one of the following areas: cardiovascular biology and engineering, molecular biotechnology, or quantitative biology. Such germane bioengineering expertise would be in (but not limited to) biomaterials, biomechanics, bioinstrumentation, or imaging. The successful candidate will be expected to establish a state-of-the-art research program in collaboration with the Indiana University School of Medicine, also on the IUPUI campus, and to fully participate in the BME academic programs. A qualified candidate may be offered joint appointments in both engineering and medicine. A more complete description of the BME program and the IUPUI campus can be viewed at website: <http://www.cngr.iupui.edu/bme/>.

The desired start date for the position is August 15, 2004. The first review of applications will take place on February 1, 2003, and applications will be accepted until the position is filled. Send curriculum vitae along with a brief research and teaching statement and a list of at least three references to: **Dr. Edward J. Berbari, Director of Biomedical Engineering, 723 West Michigan Street, SL-174A, Indianapolis, IN 46202.** IUPUI is an Equal Opportunity/Affirmative Action Employer; Minorities/Females/Disabled. Women and minority candidates are encouraged to apply.

## POSITIONS OPEN



Invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. We seek candidates with an interest in teaching and an outstanding record of research achievement in any area of genetics including but not limited to computational biology, pathophysiology of genetic disease, gene therapy, quantitative genetics, and model organism genetics or genomics.

Candidates should have a Ph.D. and/or M.D. degree and postdoctoral research experience. Candidates are encouraged to apply by December 15, 2002, with curriculum vitae; a description of future research plans; and the names and addresses of three references. Please send information to:

**Richard Myers, Ph.D.**  
Professor and Chair  
Department of Genetics, M-344  
Stanford University School of Medicine  
Stanford, CA 94305-5120

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

### FACULTY POSITION Department of Biochemistry and Molecular Biology

Pennsylvania State College of Medicine

Applications are invited for a tenure-track position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** rank. We seek individuals that have a record of success in functional and/or structural analysis (including NMR or crystallography) of biologically important macromolecules. Expertise in areas of priority for the College (including proteomics, genomics, computational biology, cancer, diabetes, and cardiovascular disease) is desirable. Successful candidates must have a Ph.D. and/or M.D. and are expected to establish or to have established (depending on rank) independent, extramurally funded research programs and to participate in the education of medical and graduate students in the College and in the Life Sciences Consortium of Penn State. Applicants should send curriculum vitae, a one-to-two-page synopsis of research plans, and the names and addresses of three references to: **Search Committee, Department of Biochemistry and Molecular Biology, Penn State College of Medicine, H171, Hershey, PA 17033-0850.** Review begins in November 2002; applications accepted until the position is filled. Website: <http://www.hmc.psu.edu/biochemistry>. Penn State is committed to Affirmative Action, Equal Opportunity, and the diversity of its workforce.

### DIRECTOR, ELECTRON MICROSCOPY

The Sidney Kimmel Cancer Center invites applications for the position of Director of our new electron microscopy core facility. Candidates may be considered for faculty appointment as appropriate. Requires strong track record and hands-on experience in all aspects of transmission EM including tissue processing, immunogold labeling techniques, and ultrathin cryosectioning of tissue. Experience in vascular biology a plus. SKCC focuses on novel target discovery and validation useful in cancer treatment (visit our website: <http://www.skcc.org>). Submit a statement of research interests/goals, curriculum vitae, representative reprints, and a list of three references to:

**Jan Schnitzer, M.D., Scientific Director**  
Sidney Kimmel Cancer Center  
10835 Altman Row  
San Diego, CA 92121  
Equal Opportunity Employer.

## POSITIONS OPEN

### FACULTY POSITIONS IN BIOLOGY

The Department of Biology at the University of South Florida (USF) announces two tenure-track positions at the **ASSISTANT PROFESSOR** level to begin in August 2003. **DEVELOPMENTAL BIOLOGIST.** Research interests should be in the general area of developmental biology utilizing cellular, molecular, and/or genetic approaches. We especially encourage applicants whose interests complement departmental strengths in marine biology, evolution, and/or gene regulation and cell signaling. **ENVIRONMENTAL MOLECULAR BIOLOGIST.** A strong background in molecular biology is required as well as research interests that focus on fundamental problems related to the interaction of organisms with their environment. We especially encourage applicants whose interests complement departmental strengths in marine biology, cell and molecular biology, and conservation biology. Responsibilities for both positions include establishment of a productive, externally funded research program and teaching undergraduate and graduate courses in the area of specialization. USF is rated a Carnegie Research Extensive University, and biology has an active Ph.D. program within which each candidate is expected to participate. In addition to departmental faculty, collaborative opportunities exist within the USF Colleges of Marine Sciences and Medicine and also the Moffitt Cancer Center. Candidates must have a Ph.D. in biological sciences or related field, postdoctoral experience, and evidence of research productivity. Send curriculum vitae, reprints of at least two published papers, statements of research and teaching interests, and three letters of reference to the appropriate Search Committee Chair at: **Department of Biology, University of South Florida, 4202 East Fowler Avenue, SCA 110, Tampa, FL 33620-5200.** Complete applications including letters must be received by December 13, 2002. According to Florida law, applications and meetings regarding them are open to the public. The University of South Florida is an Affirmative Action/Equal Access/Equal Opportunity Employer. Applications from women and minorities are encouraged. For disability accommodations, please Telephone: 813-974-3250 for assistance (website: <http://www.cas.usf.edu/biology>).

### TENURE-TRACK POSITION

**VETERINARY PATHOLOGIST.** The Department of Pathobiology, College of Veterinary Medicine, Auburn University, invites applications for a tenure-track faculty position at the rank of **ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, or FULL PROFESSOR**. Minimum qualifications include a D.V.M. degree (or equivalent), Ph.D. degree in veterinary pathology or an allied discipline, and a strong record of achievement in research. Desirable or preferred qualifications include diplomate status in the American College of Veterinary Pathologists, experience as a diagnostic Veterinary Pathologist; experience in didactic classroom and small-group instruction; good interpersonal and written communication skills; and research achievements in molecular pathology/diagnostics, food safety, immunopathology, infectious diseases, aquatic pathobiology, or avian pathobiology. The successful candidate will be expected to direct an independent, extramurally funded research program; serve as the major Professor for Ph.D. candidates in pathology; teach in the professional curriculum; and participate in diagnostic pathology services and residency training programs. At least 50% of the individual's effort will be directed toward scholarly research activities. Starting salary and appointment will be commensurate with professional and academic credentials and experience. Review of applications will begin January 15, 2003, and continue until a candidate is recommended for appointment.

Applicants should submit curriculum vitae, a letter summarizing career goals and current research activities, and the names and addresses of three references to: **Dr. Mary K. Boudreaux, Department of Pathobiology, College of Veterinary Medicine, Auburn University, Auburn, AL 36849-5519.** Auburn University is an Affirmative Action/Equal Opportunity Employer. Women and ethnic minorities are encouraged to apply.



## GLOBAL OPPORTUNITIES

**Department of Biological Sciences at Faculty of Science – Kuwait University** announces a position for staff member in the field of Mammalogy.

### Position conditions

1. Ph.D. or equivalent in Zoology, majoring in Mammalogy preferably desert mammals from an accredited university.
2. At least 5 years experience in teaching.
3. An excellent research conducting capability.
4. Experience in teaching chordates, mammalian taxonomy and biology behavior and biodiversity.
5. Experience in supervising graduate students.
6. Excellent skill in English.
7. Preference will be for associate and full professors.

### Position Benefits

1. Tax-free salary.
2. Furnished accommodations with utilities paid.
3. Paid annual vacation, health insurance, round trip tickets for the staff member, the spouse and 3 of his children.
4. Research facilities and funds are provided with approved research projects.
5. Contract to commence 1 February 2003 or 1 September 2003 for a period to two years renewable.

### Papers required for the position

1. Personal C.V.
2. Address e-mails, telephone numbers and fax for the applicant.
3. Three addresses for recommendations.
4. Photocopy of the applicant's passport data pages.
5. Copies of academic qualification certificates (B.Sc., M.Sc., Ph.D.)
6. List of under and postgraduate courses.
7. List of published papers with copies of the recent ones.

Please send your papers to:

**Dean's Office  
Faculty of Science  
Kuwait University  
P.O. Box 5969  
Safat, 13060, Kuwait**

For more information: Fax #: (965) 484-7054; E-mail: biosc@kuc01.kuniv.edu.kw.

Last date for receiving applications is: **October 15, 2002.**



### Section of Scientific Publications Manuscript Editor Position Rochester, Minnesota

The Mayo Foundation and Mayo Clinic Section of Scientific Publications seek a full-time manuscript editor at Rochester, MN. Candidates should have substantial experience in editing peer-reviewed manuscripts, book chapters, books, and NIH grants. A relevant Ph.D. or M.D. degree is desirable but not essential. The current staff includes 7 biomedical editors and 23 editorial assistants and proofreaders. Candidates will be expected to furnish examples of their work so that the edited manuscript can be compared with the unedited copy. Successful applicants will be considered for a faculty appointment at Mayo Medical School (rank commensurate with experience). Mayo Clinic Rochester offers competitive compensation and comprehensive benefits including a relocation package. Our education and research emphasis also provides excellent opportunities for academic advancement. Apply by **January 15, 2003.**

Send CV to:

**Joseph G. Murphy, M.D., FRCPI  
Chair, Section of Scientific Publications  
Mayo Foundation and Mayo Clinic  
Plummer Building, S-10  
200 First Street SW, Rochester, MN 55905  
Fax: 507-284-2107**

*Mayo Foundation is an Affirmative Action and  
Equal Opportunity Employer and Educator*

### DEPARTMENT OF HEALTH AND HUMAN SERVICES NATIONAL INSTITUTES OF HEALTH NATIONAL HEART, LUNG, AND BLOOD INSTITUTE

#### Tenure-Track Position Cardiovascular Developmental Biology

The Laboratory of Developmental Biology, NHLBI, is seeking an individual to direct an independent research program in cardiovascular developmental biology. The candidate will possess a Ph.D., M.D., or both, and have an outstanding record of research accomplishments as evidenced by publications in major peer reviewed journals. Although a broad scope of research interests is encouraged, particularly desirable is advance imaging experience and the application of genomic or physiologic genomic and/or proteomic approaches in the study of cardiovascular development. The position is tenure-track and comes with generous start up support. Also available are several core facilities including transgenic mouse facility, confocal and electron microscopy cores, multi-modality non-invasive mouse imaging facility, iRNA resources, and genomics and proteomic support.

The successful candidate will be offered a competitive salary commensurate with experience and qualifications. Appointees must be US citizens, resident aliens, or nonresident aliens with a valid employment visa.

Applicants should send a descriptive letter of interest, curriculum vitae and bibliography and arrange for three letters of reference to be sent to:

**Ms. Rosa Snell, Human Resources Branch  
DHHS/NIH/National Heart, Lung and Blood Institute  
31 Center Drive, MSC 2484  
Bethesda, MD 20892-2484**

Please include vacancy identifier, **HL-02-0121** on ALL correspondence. Applications must be received no later than **December 31, 2002.**

**DHHS and NIH are Equal Opportunity Employers**

## POSITIONS OPEN

### MOLECULAR GENETICS OF DEVELOPMENT

University of California, Riverside

The Department of Biology at the University of California, Riverside, invites applications for a tenure-track appointment at the level of **ASSISTANT PROFESSOR** in the area of developmental biology. We are specifically seeking individuals whose research is focused on the molecular and genetic aspects of development in any organism. The successful candidate will join a growing program in developmental biology at UCR, establish a vigorous research program, and contribute to the teaching mission of the university. Depending on the specific research interests of the successful candidate, opportunities also exist to participate in interdepartmental graduate programs in cell, molecular and developmental biology; genetics; and/or evolutionary biology. Applicants must have a Ph.D. degree and two or more years of postdoctoral training. To be assured full consideration, curriculum vitae; statement of research interests; copies of relevant publications; and at least three letters of reference should be sent no later than January 15, 2003, to:

**Molecular Genetics of Development  
Search Committee  
Department of Biology  
University of California  
Riverside, CA 92521**

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

### PLANT CELL AND MOLECULAR BIOLOGY University of Vermont

The Department of Botany and Agricultural Biochemistry announces the availability of a tenure-track position at the **ASSISTANT PROFESSOR** level. The successful candidate will be expected to establish a vigorous, externally funded research program using genetics, cell biology, or biochemistry that focuses on topics central to plant biology. Preference will be given to candidates that complement existing research strengths within the Department. Teaching responsibilities will include courses at the undergraduate and graduate levels that support the needs of the Department and interests of the candidate. Candidates must have (1) a Ph.D. and (2) significant postdoctoral experience in plant molecular biology. Information about the Department can be found at our website: <http://www.uvm.edu/~plantbio>. Review of applications will begin December 1, 2002, and continue until the position is filled. Send a letter of application including a statement of research and teaching interests, curriculum vitae, and three letters of reference to: **Dr. Mary Tierney, Search Chair, Department of Botany and Agricultural Biochemistry, Marsh Life Science Building, University of Vermont, Burlington, VT 05405.** *Affirmative Action/Equal Opportunity Employer and Educator. Women and representatives of diverse racial, ethnic, and cultural groups are strongly encouraged to apply.*

### TWO FACULTY POSITIONS Entomologist and Geneticist

Two tenure-track **ASSISTANT PROFESSORS** in biology/microbiology. Position One: Teach genetics, molecular/cell biology, and introductory biology. Position Two: Teach entomology, biology of animals, and introductory biology. Faculty expected to develop research program in genetics or entomology, pursue extramural funding, and supervise M.S. theses. Ph.D. required; postdoctoral and teaching experience desirable. Send letter of application, brief statements of teaching philosophy and research interests, curriculum vitae, reprints, three letters of recommendation, and transcripts to: **Chair, Department of Biology and Microbiology, University of Wisconsin Oshkosh, Oshkosh, WI 54901** by 3 January 2003. Positions begin 1 September 2003. For additional information, see website: <http://www.uwosh.edu/departments/biology>. *The University of Wisconsin Oshkosh values diversity and is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### UK UNIVERSITY OF KENTUCKY

The University of Kentucky invites applications for a **CHAIR OF THE FORESTRY DEPARTMENT** in the College of Agriculture. The successful candidate will provide direction and leadership during a progressive and innovative era for the Department and will immediately lead the process for hiring up to five new faculty members, for a total of 17. In response to changing scientific and human dimensions that are broadening and redefining the discipline of forestry and impacting other natural resource sciences, the Department has developed a new vision of its scientific and land grant mission. This vision includes enhancing a strong core program in forestry and developing national and international prominence in research and graduate education as well as addressing a broader range of environmental, natural resource, and biodiversity conservation issues. This broader scope will involve a name change to reflect the Department's mission. The Department vision is described at website: <http://www.uky.edu/Agriculture/Forestry/forestry.html>. Qualifications include a Ph.D. in forestry or a related natural resource science discipline; ability to develop and implement a vision for the expanded departmental mission; and ability to lead excellent teaching, research, and extension programs. Demonstrated ability to support distinguished programs in research and graduate education is a key qualification. Application review will begin January 15, 2003, and continue until the position is filled. To apply, send a statement of interest describing the following: educational background, experience, leadership philosophy, and vision. Please include a résumé, copies of transcripts, and the names and addresses of four references to: **Dr. Nancy Cox, Search Committee Chair, ASN S-107, Lexington, KY 40546-0091.** Telephone: 859-257-3333; FAX: 859-257-3393; e-mail: [ncox@uky.edu](mailto:ncox@uky.edu).

*The University of Kentucky is an Equal Opportunity Employer and encourages applications from minorities and women.*

### TWO FACULTY POSITIONS AVAILABLE Vascular Plant Systematics Vertebrate Physiology

The Department of Biological Sciences at Humboldt State University invites applications for two tenure-track positions starting August 2003. See website: <http://www.humboldt.edu/~facpers/facvac.html> for details. Send curriculum vitae/resumé, three recent letters of recommendation, statements of teaching philosophy and research interests, and complete academic transcripts to: **Systematics Search Committee or Physiology Search Committee, Department of Biological Sciences, Humboldt State University, Arcata, CA 95521.** Telephone: 707-826-3245; FAX: 707-826-3201. Deadline for applications is January 15, 2003. Address inquiries to: **Systematics: Michael Mesler; e-mail: [mrml1@humboldt.edu](mailto:mrml1@humboldt.edu). Physiology: John Reiss; e-mail: [jorl1@humboldt.edu](mailto:jorl1@humboldt.edu).**

The Department of Pediatrics at The University of Texas Health Science Center (UTHSCSA) at San Antonio has an immediate opening for a Researcher in the Division of Pediatric Endocrinology. The faculty appointment will be at the **ASSISTANT PROFESSOR** level. The candidate must be published in peer-review journals. Candidates with demonstrated expertise in transgenic or in all animal models and the desire to contribute to developing centers of excellence in these areas are particularly encouraged to apply. Please submit curriculum vitae to: **Robert J. Ferry, M.D., Assistant Professor, Department of Pediatrics, MSC 7806, Room 528L-2, UTHSCSA, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900.** E-mail: [bob@uthscsa.edu](mailto:bob@uthscsa.edu). *The UTHSCSA is an Equal Employment Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ASSOCIATE/FULL PROFESSOR WILDLIFE ECOLOGY Department of Zoology

We seek a colleague with an established record of research and related scholarly activities who is highly motivated to accelerate a prominent personal research program within a nationally recognized wildlife program that is being expanded as part of the university's strategic faculty hire initiative. The 12-month, tenure-track faculty position is 25% assigned to the Department of Zoology for teaching and is a 75% research appointment with the Cooperative Wildlife Research Laboratory (website: <http://www.siu.edu/~wildlife>). Salary and rank will be commensurate with experience and qualifications. Excellent benefits and a generous start-up package enhance the position. The successful candidate may be appointed Associate Director of the Laboratory. Research specialization must be in an area that either brings a new capability to the Laboratory program or that complements existing expertise leading to expanded graduate programming and stature. The successful candidate is expected to maintain extramurally funded research, train graduate students in their specialization, and collaborate with colleagues in related research activities. If appointed Associate Director, time will be assigned to shared administrative responsibilities. Limited time may be assigned to technology transfer and outreach. The Department of Zoology assignment will include advising graduate and undergraduate students in the wildlife ecology curriculum, teaching assigned courses, and participation in various faculty activities. Qualifications are (1) Ph.D. in wildlife science, biology, zoology, or related natural resource discipline; (2) successful record of obtaining grants, especially at the federal level, and evidence of strong potential to support research specialization and graduate students; and (3) publication record, professional contributions, and teaching skills commensurate with experience. Preference will be given to fully qualified applicants who are active members of The Wildlife Society. Applications must include (1) a cover letter that highlights qualifications specifically for the position described, a detailed statement of research interests, and a statement of teaching interests and capabilities; (2) curriculum vitae; (3) graduate transcripts; (4) reprints of representative published papers and successful grants; and (5) contact information for five persons qualified to discuss your ability and potential to fill this particular position. For information, contact: **Dr. Alan Woolf; Telephone: 618-536-7766; e-mail: [awoolf@siu.edu](mailto:awoolf@siu.edu).** Submit application to: **Dr. Alan Woolf, Cooperative Wildlife Research Laboratory, Southern Illinois University, Mailcode 6504, Carbondale, IL 62901.** Closing date for application is 15 February 2003 or until filled. Starting date is 1 August 2003 or negotiable. *SIUC is an Equal Opportunity/Affirmative Action Employer. We encourage women and minority candidates to apply.*

### MASSACHUSETTS GENERAL HOSPITAL HARVARD MEDICAL SCHOOL

The Massachusetts General Hospital (MGH) Division of Hematology/Oncology and Cancer Center invite applications for the position of **DIRECTOR OF LEUKEMIA RESEARCH**. Board-certified Hematologists/Oncologists acting as Principal Investigators at the **ASSOCIATE PROFESSOR** level are encouraged to apply. A record of program development and success in basic research with translational links to patient care is required. Emphasis is placed on the ability to foster interaction between laboratory and clinical investigators and to build cooperative teams. This position includes joint research activities with the Dana-Farber Cancer Institute and Brigham and Women's Hospital. Please submit a letter describing qualifications, with curriculum vitae and names of three references to: **Dr. Bruce Chabner, Chief of Hematology/Oncology, Massachusetts General Hospital, 100 Blossom Street, Cox 640, Boston, MA 02114-2617.** *MGH is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are urged to apply.*



## Faculty Position in Ornithology at Yale University

In partnership with the Peabody Museum at Yale University, the Department of Ecology and Evolutionary Biology seeks a distinguished senior avian biologist with interests that include collections based research and teaching. The candidate will fill a tenured faculty position in the Department of Ecology and Evolutionary Biology and will be the curator of ornithology in the Peabody Museum. The successful candidate shall be recommended for appointment by the University to the Coe Professorship in Ornithology. We seek creative individuals with an internationally recognized research program in any area of avian biology that would be complementary to existing research programs at Yale. In his/her capacity as Curator, the individual selected would oversee the Peabody Museum's outstanding ornithological collections and specialized library, and would be responsible for their use, maintenance, growth and development. Closing date for applications is **January 15, 2003**.

Applicants should send a curriculum vitae, a statement of professional goals, and the names and addresses of three or more referees to:

**Ornithology Search Committee**  
c/o Professor Günter P. Wagner  
Yale University  
Department of Ecology and Evolutionary Biology  
New Haven, CT 06520-8106

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

## Assistant/Associate Professor, tenure track College of Medicine & Public Health The Ohio State University

The Department of Pharmacology and the Program in Pharmacogenomics, College of Medicine & Public Health, OSU, invite applications for two faculty positions in the area of genetics and treatment of complex-trait diseases. The new Program in Pharmacogenomics (<http://pharmacogenomics.osu.edu>) supports collaboration between scientists and clinicians in multiple fields, including structural biology, molecular and cellular pharmacology, therapeutics, pharmacogenomics, human genetics, bioinformatics and biostatistics, and clinical sciences. Several focus groups have initiated projects investigating the genetics and treatment of cancer, and cardiovascular and CNS disorders. We are seeking scientists who can build externally supported, independent research programs and interact with these groups by adding research expertise in human genetics, rodent genetics and comparative genomics, or who study genetic-molecular mechanisms underlying drug response and toxicity. The Program in Pharmacogenomics has over 15 active faculty, a Core Laboratory and access to state-of-the-art instrumentation in the Medical Center. Successful candidates will be able to take advantage of close links with Departments of Biomedical Informatics, Psychiatry and Internal Medicine, Mathematical Biosciences Institute, Davis Heart and Lung Research Institute, and Human Cancer Genetics Program in The James Cancer Hospital and Comprehensive Center. Highly competitive start-up packages are available.

For full consideration send resume, three reference letters, and research plans by March 1, 2003 to:

**Wolfgang Sadée**  
Chair, Department of Pharmacology  
Director, Program in Pharmacogenomics  
College of Medicine and Public Health  
The Ohio State University  
5072 Graves Hall  
333 West 10th Avenue  
Columbus OH 43210-1239  
fax 614-292- 7232

For electronic submissions send to [ring.32@osu.edu](mailto:ring.32@osu.edu).

*OSU is an Equal Opportunity, Affirmative Action Employer.*

## THE UNIVERSITY of EDINBURGH



### COLLEGE of MEDICINE and VETERINARY MEDICINE CHAIR OF PHYSIOLOGY

Applications are invited for the Chair of Physiology. The post will be held in the School of Biomedical & Clinical Laboratory Sciences (SBCLS).

The successful candidate will be recognised for his/her potential for making a major contribution to the academic leadership of the School and will be encouraged to draw on excellent opportunities for collaboration within the School, College and University. The candidate will have an established international reputation for excellence in research in integrative Physiology.

Further information may be obtained by contacting either Professor John Savill, Head of College, ([J.Savill@ed.ac.uk](mailto:J.Savill@ed.ac.uk)), Professor Dorothy Crawford, Head of School, ([D.Crawford@ed.ac.uk](mailto:D.Crawford@ed.ac.uk)), or Professor Gareth Leng, Deputy Head of School, ([Gareth.Leng@ed.ac.uk](mailto:Gareth.Leng@ed.ac.uk)). Salary will be in the professorial range.

Please quote REF: 311918SI.

Closing date: 13 December 2002.

Apply online, view further particulars or browse more jobs at our website. Alternatively, telephone the recruitment line on 0131 650 2511.

*Committed to Equality of Opportunity*

[www.jobs.ed.ac.uk](http://www.jobs.ed.ac.uk)

## Simon Fraser University Faculty of Science



### THE SHRUM CHAIR IN SCIENCE

Applications and nominations are invited for the Shrum Chair in the Faculty of Science at Simon Fraser University. This endowed chair is named after the late G.M. Shrum, founding Chancellor of the University. Candidates should be outstanding scholars whose research interests match those represented in our Departments: Biological Sciences, Chemistry, Earth Sciences, Mathematics, Molecular Biology and Biochemistry, Physics, and Statistics and Actuarial Science. The Chair is a five-year appointment and the appointment will hold a tenured position as Professor in an appropriate Department. The salary will be commensurate with a distinguished Chair appointment and the appointment will be effective September 1, 2003. For more information on the Faculty of Science please visit the web site at: [www.sfu.ca/~science](http://www.sfu.ca/~science).

Applications or nominations, together with a curriculum vitae, and where appropriate, the names of six referees, should be sent by **January 10, 2003** to:

**W.S. Davidson, Dean**  
Faculty of Science  
Simon Fraser University  
8888 University Drive  
Burnaby, BC V5A 1S6

*All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. Simon Fraser University is committed to an equity employment program that includes special measures to achieve diversity among its faculty and staff. We therefore particularly encourage applications from qualified women, Aboriginal Canadians, persons with disabilities, and members of visible minorities.*



## POSITIONS OPEN

Northwestern University and Evanston Northwestern Healthcare (ENH) are actively searching for Scientists (Physician-Scientists preferred) for **TENURE-TRACK or TENURED POSITIONS** at all levels. Appointments will be joint among the Research Institute of ENH (a member of the McGaw Medical Center), the Feinberg School of Medicine, and/or the Weinberg College of Arts and Sciences at Northwestern University. Of primary interest are Researchers using genetics to investigate problems that build upon existing strengths in reproduction and hormone signaling, cell signaling /oncogenesis and protein trafficking, circadian rhythms, and the biochemical basis of neurodegenerative diseases. Candidates will have opportunities to teach at both the undergraduate and graduate divisions of the University. Successful applicants will occupy new laboratory space on the Evanston campus of Northwestern University and be provided very generous start-up packages including salary. To be considered, please send curriculum vitae, a description of research and teaching accomplishments and plans, no more than three representative publications, and three letters of recommendation to the address below. Applications should be received by January 3, 2003. Address applications to: **Dr. R. Morimoto/Dr. J. Khandekar, Joint Search, ENH/ Northwestern University, Department of Biochemistry, Molecular, and Cellular Biology, Northwestern University, 2205 Tech Drive, Hogan 2-100, Evanston, IL 60208.**

Northwestern University and ENH are Affirmative Action/Equal Opportunity Employers. Applications from women and members of minority groups are strongly encouraged.

**POSTDOCTORAL POSITION:** Position available to study the actions of the helix-loop-helix transcription factor TAL1/SCL in normal and leukemic hematopoiesis. Current efforts focus on (1) interaction with transcriptional coregulators (see *Mol. Cell Biol.* 20:2248, 2000); (2) regulation by phosphorylation (see *J. Biol. Chem.* 277:18365, 2002) and acetylation (see *EMBO J.* 19:6792, 2000); and (3) identification and characterization of target genes. Please send curriculum vitae and names of three references to: **Dr. Stephen Brandt, Division of Hematology-Oncology, Room 777, Preston Research Building, Vanderbilt University Medical Center, Nashville, TN 37232. FAX: 615-936-3853; e-mail: stephen.brandt@vanderbilt.edu.** An Affirmative Action/Equal Opportunity Employer.

**PREDOCTORAL TRAINEESHIPS** are available for the Interdisciplinary Program in Toxicology, a Center of Academic Excellence at the University of Georgia. Selected candidates will receive graduate stipends of up to \$25,000 per year plus a tuition waiver and would join one of a number of active research laboratories. Applicants (citizens or permanent residents of the United States only) are expected to have a degree in a biology- or chemistry-related discipline or an appropriate biomedical science with GPA and GRE scores in the top quartile. For additional information, contact: **Raghubir P. Sharma, Graduate Coordinator (e-mail: rpsharma@vet.uga.edu)** or **Cham E. Dallas, Director, Interdisciplinary Toxicology Program (e-mail: cdallas@mail.rx.uga.edu).** The application deadline is February 1, 2003, and forms and other relevant information are available at website: <http://www.uga.edu/main/home/toxi/toxi>.

## THE UNIVERSITY OF VIRGINIA Department of Pathology

Two **RESEARCH ASSOCIATE POSITIONS** are available to study protease receptors and cell signaling. We are particularly interested in urokinase and the LDL receptor gene family. Experience in cell and molecular biology and Ph.D./M.D. degree(s) are required. Please forward curriculum vitae, description of research interests relevant to this position, and names of three references to: **Dr. Steve Gonias, University of Virginia Health System, Department of Pathology, P.O. Box 800904, Charlottesville, VA 22908. E-mail: slg2t@virginia.edu.** Positions will remain open until filled. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### ASSISTANT PROFESSOR Marine Geochemistry University of British Columbia

Applications are invited for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level in the Department of Earth and Ocean Sciences at the University of British Columbia.

The candidate should have expertise in marine geochemistry, a Ph.D. and preferably postdoctoral experience, and a record of multidisciplinary research towards understanding marine biogeochemical cycles. Examples of areas of interest include the use of geochemical tracers to investigate the relationship between changes in the ocean/atmosphere system and Earth's climatic variability, the evolution of biogeochemical cycles during the Quaternary period, and the geochemical coupling of benthic and pelagic systems. The successful candidate will be expected to teach undergraduate and graduate courses in the Department of Earth and Ocean Sciences.

Applications should include curriculum vitae, list of publications, and a summary of research interests. Applicants should also arrange for three letters of recommendation to be sent to:

**Dr. Paul L. Smith, Head  
Department of Earth and Ocean Sciences  
The University of British Columbia  
6339 Stores Road  
Vancouver, BC V6T 1Z4 Canada**

The closing date for the competition is 31 January 2003.

In order to address underrepresentation of members of designated Equity groups among senior faculty, we may consider making an appointment at a higher rank for a woman, visible minority, disabled, or aboriginal applicant with exceptional qualifications subject to the availability of funds. The University of British Columbia hires on the basis of merit and is committed to Employment Equity. All qualified persons are encouraged to apply; however, Canadians and permanent residents of Canada will be given priority.

## UNIVERSITY OF FLORIDA

Seeks **RESEARCH ASSISTANT/ASSOCIATE/FULL PROFESSOR** (nontenure-track) position in the Department of Medicine, Division of Nephrology. An M.D. or Ph.D. degree or equivalent is required. Qualified applicants should have at least seven years of postdoctoral research experience; extensive experience with transgenic mice, knockout mice, and RNA interference; and a strong background in kidney-related research. Responsibilities will include but are not limited to production, breeding, and characterization of transgenic and knockout mice; expression of normal and mutated exogenous genes in mice and cultured cells; and analysis of gene expression and protein structure-function relationships in adult animals and during development. Salary and benefits commensurate with experience. Recruiting deadline date: December 1, 2002. Anticipated start date: December 15, 2002. Please submit curriculum vitae and three letters of recommendation to: **Stephen L. Gluck, M.D., P.O. Box 100224, Gainesville, FL 32610.** An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**CLARKSON UNIVERSITY:** The Chemistry Department seeks an outstanding, energetic Scientist to occupy the endowed Egon Matijevic Chair in colloid chemistry. Candidates for this position are expected to establish a research program with international prominence in the broadly defined colloid area including nanomaterials, biocolloids, etc. In addition to chemistry, the position would be closely associated with the University's New York State-supported Center for Advanced Materials Processing. Prospective candidates should submit curriculum vitae and list of references to: **Dr. Y. Li, Search Committee Chair, Chemistry Department, Clarkson University, Potsdam, NY 13699-5810.** Positions start fall 2003. Review will continue until positions are filled. Clarkson is an Affirmative Action/Equal Opportunity Employer. Position Posting Number 34-02.

## POSITIONS OPEN

### ASSISTANT PROFESSOR Department of Physiology and Functional Genomics University of Florida College of Medicine

The Department of Physiology and Functional Genomics invites applications from outstanding individuals for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR**. Candidates must have a Ph.D. and/or M.D. degree, a good record of publications, and postdoctoral research experience in cellular/molecular physiology. The successful candidate will be expected to develop a strong, extramurally supported, independent research program. Candidates in all areas of physiology will be considered. Areas of special interest include cardiovascular, endocrine, cell signaling, functional genomics, gene therapy, and development biology. Candidates will be expected to teach in medical, dental, and graduate school courses and mentor graduate students. The College of Medicine has interdisciplinary centers in mammalian genetics, hypertension, and cancer and gene therapy as well as the McKnight Brain Institute. Salary is commensurate with qualifications and experience. An excellent start-up package includes initial support from the Howard Hughes Medical Institute Research Resources Program for Medical Schools grant to the College of Medicine. Along with a cover letter, please submit curriculum vitae, a statement of research plans, and the names of at least three references to: **Peter P. Sayeski, Ph.D., Chair, Faculty Search Committee, Department of Physiology and Functional Genomics, P.O. Box 100274, University of Florida College of Medicine, Gainesville, FL 32610-0274.** Application deadline: December 31, 2002. Anticipated start date: July 1, 2003. The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

### ASSISTANT PROFESSOR WILDLIFE ECOLOGY University of California at Berkeley

Tenure-track, nine-month position in the Department of Environmental Science, Policy, and Management (Ecosystem Sciences Division) and the Agricultural Experiment Station available July 1, 2003. The appointee will conduct research on ecology, management, and conservation biology of terrestrial vertebrates. Appropriate research emphases include large mammal management, landscape ecology, population dynamics, disease, plant-animal interactions, physiological ecology, and ecosystem and habitat management. Candidates should have strong quantitative skills and be able to interact with colleagues in a broad array of disciplines in environmental sciences. Teaching will include a large, upper-division class in wildlife ecology to a broad cross-campus audience; a graduate seminar; and participation in other environmental sciences courses. Submit curriculum vitae; statement of research and teaching interests; and three letters of recommendation by January 23, 2003, to: **Chair, Wildlife Ecology Search Committee, Ecosystem Sciences Division, 151 Hilgard Hall, MC 3110, University of California, Berkeley, CA 94720-3110.** More details at website: [http://espm.berkeley.edu/wildlife\\_position.html](http://espm.berkeley.edu/wildlife_position.html). The University of California is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL FELLOWSHIP** is available immediately to study nuclear function and gene expression. The project will focus on the regulation of nuclear function by lipid mediators. This three-year NIH-funded appointment offers interdisciplinary training in a world-class research environment. The ideal candidate has a strong background in cellular or molecular biology as applied to nuclear function. Also, this training program is restricted to United States citizens or permanent residents of the United States. Submit curriculum vitae with names of three references to: **Thomas G. Brock, Ph.D., Internal Medicine, University of Michigan, Ann Arbor, MI 48109-0642. E-mail: brocko@umich.edu.** The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

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## POSITIONS OPEN

### ASSISTANT PROFESSOR OF BIOLOGY TENURE-TRACK POSITION

Xavier University, a Catholic University in the Jesuit tradition, is seeking applications for a tenure-track position at the Assistant Professor level beginning in the fall of 2003. The individual must hold a Ph.D. degree in an area of the biological sciences with an emphasis on animal behavior. Responsibilities include teaching an upper-division undergraduate course in animal behavior; freshman-level general biology covering taxonomy, evolution, and ecology; other introductory lecture and laboratory courses; continuing to be actively engaged in scholarly activities; advising undergraduate students; and developing a strong undergraduate research program. The successful candidate must have demonstrated excellence in teaching undergraduates. Experience in mentoring undergraduates in research is a plus. For more information, visit the Xavier website: <http://www.xavier.edu>.

Interested/qualified applicants must submit a cover letter; résumé; three letters of recommendation; and a statement of teaching and research interests postmarked no later than January 10, 2003, to:

**Dr. Carolyn Chambers, Chair**  
Department of Biology  
Xavier University  
3800 Victory Parkway  
Cincinnati, OH 45207-4331

*Equal Opportunity/Affirmative Action Employer. Xavier University has a strong commitment to diversity and, building upon recent success, seeks a broad spectrum of candidates including women and minorities.*

### FACULTY POSITION Department of Pharmacology, Physiology, and Therapeutics

University of North Dakota  
School of Medicine and Health Sciences

Applications are invited for a tenure-track position at the ASSISTANT/ASSOCIATE PROFESSOR level. The successful candidate will contribute to team-taught courses for graduate and medical students in systemic and cell physiology. Research areas are open but preference will be given to individuals with strong backgrounds in cardiovascular physiology or pharmacology and to those demonstrating potential for vigorous research programs supported by extramural funds. Candidates must have a Ph.D., M.D., or equivalent and at least two years of postdoctoral experience. Review of applications will begin January 1, 2003, and continue until the position is filled. Interested candidates should send curriculum vitae, descriptions of research and teaching experience, and names of three individuals willing to serve as references to: **Dr. Edward C. Carlson, Search Committee Chair, Department of Pharmacology, Physiology, and Therapeutics, Box 9037, University of North Dakota School of Medicine and Health Sciences, Grand Forks, ND 58202. Telephone: 701-777-2101; FAX: 701-777-2477; e-mail: [ecarlson@medicine.nodak.edu](mailto:ecarlson@medicine.nodak.edu); website: <http://www.med.und.edu/bimd/pharm.html>. The University of North Dakota is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.**

### BIOLOGICAL OCEANOGRAPHER

We seek a Ph.D.-level Biological Oceanographer for a nine-month, tenure-track appointment at the ASSISTANT/PROFESSOR level to begin as soon as August 2003. The position involves research, training (primarily at the graduate level), and service. Area of specialization is open but we are particularly interested in a person who studies the role of nekton in ecological processes. Send a letter of application, curriculum vitae, and contact information for three references to: **Biological Oceanography Search Committee, Department of Oceanography, Florida State University, Tallahassee, FL 32306. Application review will begin on 1 January 2003. The University is an Equal Opportunity/Access/Affirmative Action Employer.**

## POSITIONS OPEN

### EVOLUTIONARY BIOLOGY

The Section of Integrative Biology invites applications for a **FACULTY POSITION** in evolutionary biology to begin in the 2003/2004 academic year. The position is open at both the tenure-track and tenured levels. We are searching for a candidate who will conduct a vigorous, externally funded research program in any area of evolutionary biology that enhances the already strong programs in behavior, ecology, evolution, and systematics. More details about the Section of Integrative Biology can be found at **website: <http://www.biosci.utexas.edu/IB/>**. The candidate will also be expected to participate actively in The University of Texas UTeach program, an innovative program for the preparation of secondary science teachers. Participation will include teaching a course aimed at students preparing to be secondary school science teachers. More information about the UTeach program can be found at **website: <http://www.uteach.utexas.edu/>**. Opportunities will also be available to teach graduate-level courses in the candidate's area of interest. The position requires a Ph.D. (awarded prior to September 2003). Applicants should send curriculum vitae, statement of teaching interests including a description of interest in training future secondary school teachers, statement of research interests, and no more than five reprints or preprints. The candidate should also have at least three letters of recommendation sent to: **Evolutionary Biology/UTeach Search, Integrative Biology, 1 University Station C0930, University of Texas, Austin, TX 78712-0253 U.S.A. by January 15, 2003. Inquiries about the position should be directed to: Dr. Robert K. Jansen; e-mail: [rjansen@utxvms.cc.utexas.edu](mailto:rjansen@utxvms.cc.utexas.edu); Telephone: 512-232-5661. University of Texas is an Equal Employment Opportunity/Affirmative Action Employer.**

### ASSISTANT/ASSOCIATE PROFESSOR Department of Pharmacology and University of Florida Shands Cancer Center

The Department of Pharmacology and Therapeutics in conjunction with the University of Florida Shands Cancer Center (UFSCC) invites applications for a tenure-track faculty position for individuals having a Ph.D. and/or M.D. degree. The successful candidate at the ASSISTANT PROFESSOR level will be expected to develop an independent but interactive research program; at the Associate Professor level, candidates should have an established program. The individual will enhance and bridge the research programs of the Department and UFSCC. Areas of particular interest within cancer biology include but are not limited to cell signaling, therapeutic targeting and drug/development, genomics, and proteomics. A commitment to the education of professional and graduate students will also be expected. The position offers a competitive salary and start-up package and excellent research facilities. Additional information about the Department and UFSCC are available at **websites: <http://www.med.ufl.edu/pharm> and <http://www.ufsc.ufl.edu>**. Applicants should send their curriculum vitae, a description of research interests, and three letters of recommendation to: **Chair, Faculty Search Committee, Department of Pharmacology and Therapeutics, Box 100267, University of Florida College of Medicine, Gainesville, FL 32610-0267. Application deadline is January 13, 2003, with an anticipated start date on or after May 1, 2003. The University of Florida is an Equal Opportunity Employer; minorities and women are encouraged to apply.**

Engineering: Enviro, Inc. seeks a **METALLURGICAL ENGINEER** at its Canton, Ohio, facility to serve as **MANAGER, RECYCLING TECHNOLOGY**. You will develop economically viable metal recovery processes for industrial waste streams. Position requires an advanced degree in metallurgical engineering and at least five years of experience in metallurgical research, metals recovery, and hydrometallurgy. Send résumé to: **Enviro, 2050 Central Avenue, S.E., Canton, OH 44707, Attention: Human Resources. FAX: 330-456-2801. No calls. Equal Opportunity Employer.**

## POSITIONS OPEN

### PHYSICAL CHEMISTRY Dartmouth College

Applications are invited for a faculty position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level starting July 2003. The Chemistry Department seeks an individual who will establish a nationally recognized research program in experimental physical chemistry at Dartmouth and who will excel at teaching in our undergraduate and Ph.D. curriculum. The Department has major initiatives in structural biology and in materials chemistry and preference will be given to individuals who conduct research in the areas of biomolecular NMR spectroscopy or materials characterization. Candidates will be expected to be able to teach introductory chemistry and physical chemistry courses as well as graduate courses in their area of research. Applicants should submit curriculum vitae, a description of their research plans, and a brief statement about their teaching interests. Applicants should also arrange to have three letters of recommendation sent on their behalf. All inquiries and applications will be treated confidentially. Application materials should be sent to: **Chair, Physical Chemist Search Committee, Department of Chemistry, 6128 Burke Laboratory, Dartmouth College, Hanover, NH 03755-3564. The Committee will begin to consider completed applications on December 16, 2002. With an even distribution of male and female students and over a quarter of the undergraduate student population members of minority groups, Dartmouth is committed to diversity and encourages applications from women and minorities. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.**

GMP Genetics, Inc. is a new genetics company focused on deploying cutting-edge technologies to revolutionize human genetics. We are currently recruiting **SCIENTISTS** to work in our molecular genetics laboratory located in Waltham, Massachusetts. As a Scientist, you would be joining a dynamic research team focused on the development and implementation of genetic diagnostic applications. You will be responsible for developing, testing, and implementing new and/or improved processes and applications in molecular diagnostics. Qualified candidates will have a Ph.D. in genetics or related field with a minimum of two years of postdoctoral or industrial experience working in a molecular genetics or biology field and a proven track record in experimental design and data analysis. Articulate communication skills, both verbal and written, and proficient MS office skills are all required. We offer a state-of-the-art laboratory, competitive salary with stock options, health insurance, a retirement plan, and 20 days of paid time off per year. For consideration, please e-mail your résumé to **e-mail: [resumes@gmpcompanies.com](mailto:resumes@gmpcompanies.com). For more information, go to websites: <http://gmpgenetics.com> or <http://gmpcompanies.com>. Local candidates preferred and no telephone calls, please. Equal Opportunity Employer.**

SUNY Potsdam invites applications for an **ASSISTANT PROFESSOR** of genetics beginning August 2003. Qualifications include (1) a Ph.D. in biological sciences with an emphasis in genetics, (2) demonstrable record of excellence in teaching, and (3) the ability to conduct research that involves undergraduates. The successful candidate will teach undergraduate biology majors in courses such as genetics, introductory biology, and upper-level electives in an area of specialty. Additionally, the successful candidate will be expected to offer a course for nonmajors. Please send a letter of application, curriculum vitae, names and contact information of three references, a statement of philosophy of teaching and learning, a statement of research interests, and an unofficial copy of transcripts to: **Dr. Glenn Johnson, Chair of the Genetics Search Committee, SUNY Potsdam, Potsdam, NY 13676. For more information on the Biology Department, please visit website: <http://www.potsdam.edu/BIOL/BIOLhome.html>. Applications must be postmarked by January 15, 2003. SUNY Potsdam is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.**





The Department of Biological Sciences, University at Albany/SUNY seeks a tenure track **ASSISTANT PROFESSOR** in the field of **MOLECULAR BIOLOGY/ MOLECULAR GENETICS**. The

University at Albany is engaged in a \$100 million initiative in the Life Sciences that includes a new state-of-the-art research building and core facilities. The successful applicant will be expected to establish an externally funded research program using genomics/proteomics analysis and to participate in departmental undergraduate and graduate programs, including a new graduate program in Forensic Molecular Biology. The candidate will be able to interact with a broad group of biologists, chemists, physicists, and computer scientists who will be located in the Life Sciences Research Building and in the University's Center for Comparative Functional Genomics.

Send CV, statement of research interests, and a minimum of 3 letters of reference, preferably by email to [feck@albany.edu](mailto:feck@albany.edu). Applications, letters of reference and reprints may also be sent to: **Ms. Blanche Feck, Search Committee Staff, Department of Biological Sciences, University at Albany, 1400 Washington Avenue, Albany, NY 12222.**

Qualification. Ph.D. with postdoctoral experience and strong publication record in related field.

Search will remain open until filled but preference will be given to applications received by December 16, 2002. Salary and set-up package will be competitive. Position pending final budget approval.

*The University at Albany, SUNY, is an EO/AA/IRCA/ADA Employer.*

### THREE FACULTY POSITIONS IN BIOLOGY

The Department of Biology at Indiana University-Purdue University Indianapolis (IUPUI) invites applications for positions beginning August 2003 in the following areas:

**(1) Assistant Professor of Biology (tenure track):** Applicant must have a Ph.D. and postdoctoral training, preferably in the areas of genetics, microbiology, or environmental biology, although other areas will be considered. The successful candidate will be expected to develop an active, extramurally funded research program and teach 1 course per semester. Competitive start-up funds will be provided. Send application materials, listed below, and a statement of research interests to **Assistant Professor Search Committee** at the address given below.

**(2) Lecturer in Biology (non-tenure track):** Candidates must have a doctoral degree in biological science with emphasis in human anatomy/physiology and a strong commitment to undergraduate education. The successful candidate will have a record of high quality teaching in human anatomy and human physiology courses and have the ability and interest to work with a diverse student population. Lecturer responsibilities include teaching undergraduate anatomy and physiology and service to the department. In addition to the materials listed below, send graduate transcripts, and any other documents in evidence of teaching experience to **Anatomy/Physiology Lecturer Search Committee** at the address given below.

**(3) Lecturer in Biology (non-tenure track):** Candidate must have a doctoral degree in biology or science education with an emphasis in biology, or a Master's degree in biology with experience in college-level teaching. The successful candidate will be the primary instructor and course director of introductory courses for non-science majors and may also teach courses in the candidate's area of expertise. In addition to the application materials listed below, the candidates for this position must also include graduate transcripts and any other documents in evidence of teaching experience to **Biology Lecturer Search Committee** at the address given below.

Application materials for all positions must include: a letter of application stating which position is being applied for, curriculum vitae, and a statement of teaching interests and philosophy. Please arrange to have 3 letters of reference sent to the proper committee. Send materials to the proper committee at **Department of Biology, IUPUI, 723 W. Michigan St., SL 306, Indianapolis, IN 46202-5191**. Screening of *completed* applications will begin November 15, 2002 until the positions are filled.

Indiana University-Purdue University Indianapolis has the highest level of external funding of any campus in Indiana and encompasses 18 schools including the Schools of Science, Liberal Arts, Medicine, Dentistry, Law, Nursing, and Art. The IU Cancer Center and the Center for Earth and Environmental Sciences are also located on the Indianapolis campus. The Department of Biology has 24 full-time faculty with interests ranging from genetics, anatomy, physiology, microbiology, molecular and developmental biology, membrane biochemistry, regeneration, immunology, oncology, ecology, plant biology, and science education. The Department grants both M.S. and Ph.D. degrees. For more information about IUPUI and Indianapolis visit the following websites: <http://www.biology.iupui.edu>, <http://www.iupui.edu>, <http://www.indy.org>, and <http://www.indygov.org>.

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

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Max-Planck-Institut für Eisenforschung GmbH  
Düsseldorf, Germany



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## Two Directors and Members of the Scientific Board

The fundamental research activities of the institute are focused on metallic materials with particular emphasis on steels. Candidates with excellent international reputation should have their main scientific research activities in the areas of:

### Chemical Metallurgy / Physical Metallurgy / Metal Physics / Materials Technology

Successful candidates will be appointed as head of a department at the full professor level (C4). Research accomplishments of interested candidates should represent the state of the art in materials science, theoretical or experimental. Research topics could include among others the numerical simulation of phase formation and phase transformation, solidification, the development of new metallic materials and composites, functional properties of metallic materials including tribology, or modern high resolution analytical techniques including three-dimensional atom-probe.

The Max-Planck-Institut für Eisenforschung provides the basis for competitive research on the highest international level and is interested in colleagues willing to cooperate with existing departments to strengthen the interdisciplinary research activities of the institute.

The Max-Planck-Society wants to increase the quota of women in the scientific area and therefore especially invites qualified women to apply.

Please send your application before **January 15, 2003** to Geschäftsführung, Max-Planck-Institut für Eisenforschung GmbH, Postfach 14 04 44, 40074 Düsseldorf, Germany.

Further information about the institute can be found on the website: <http://www.mpie.de>

# POSITIONS OPEN



## THERAPY SCIENTIST

### Buffy Coat Platelet Process Development

Every day BCT employees change the world. Our blood transfusion, therapeutic apheresis, and stem cell collection equipment is used in hospitals, blood banks, and cancer research facilities around the globe. If you are seeking a stimulating work environment with people dedicated to state-of-the-art medical therapies with a strong focus on our customers, Gambro BCT is the place for you!

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## FTICR EXPERIENCED MASS SPECTROSCOPIST

The HHMI Biopolymer/W.M. Keck Foundation Biotechnology Resource Laboratory in the Yale University School of Medicine seeks a Ph.D.-level Mass Spectroscopist with FTICR experience. The Keck Laboratory carries out proteomic and other mass spectrometry analyses for research laboratories both within and outside Yale. The successful applicant for this research-track position will develop and implement FTICR/MS-based services, interact closely with Investigators in the recently funded Yale/NHLBI Proteomics Center, and carry out independent and collaborative protein profiling research. The Laboratory contains two Micromass Q-Tofs, an LCQ, Micromass ToFSpec SE, and a soon-to-be-installed M@LDI L/R that will be used for peptide disease marker discovery and automated protein identification. NIH funding is available to purchase a 9.4T FTICR with both ESI and MALDI ion sources. Interested candidates should forward their curriculum vitae and the names of three references by December 20, 2002, to e-mail: [walter.mcmurray@yale.edu](mailto:walter.mcmurray@yale.edu), [kathryn.stone@yale.edu](mailto:kathryn.stone@yale.edu), or FAX it to the attention of either of these staff at FAX: 203-737-2638. Yale University is an Affirmative Action/Equal Opportunity Employer.

## BIOLOGY/CELLULAR BIOLOGY

**ASSISTANT PROFESSOR** with the following qualifications: (1) research and teaching interests in a specialization of cellular biology, (2) desire to contribute to our cross-disciplinary program in environmental studies, (3) demonstrated ability to teach introductory biology, (4) Ph.D. Our department offers a strong undergraduate program in biology as well as the M.S. degree. Candidates are expected to pursue funded research in their area of specialization. Please send a letter of application; curriculum vitae; and the names/addresses of three references by December 31, 2002, to: Dr. James Dooley, Chair, Department of Biology, Science 114, Adelphi University, South Avenue, Garden City, NY 11530. Adelphi University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

# POSITIONS OPEN

## ANIMAL SYSTEMATIST

The Department of Evolution, Ecology, and Organismal Biology (website: <http://www.biosci.ohio-state.edu/~ecob/>) seeks an Animal Systematist to join our existing systematic group in the Museum of Biological Diversity. This is a **TENURE-TRACK POSITION** with a starting date of October 1, 2003. The successful applicant will be expected to maintain an extramurally funded research program in an area of animal systematics, taxonomy, or phylogenetics that complements existing programs and which extends the program's ability to train graduate students and Postdoctoral Researchers in molecular and/or monographic methods. The appointee will also be expected to assume a leadership role in the further development of the research and service programs of the Museum, which includes outstanding collections of aquatic invertebrates, fish, and other taxa. The successful applicant will direct graduate students and contribute to the undergraduate and graduate teaching programs in evolutionary and organismal biology. Applicants should forward current curriculum vitae, statements of teaching and research experience and interests, and three letters of reference to: Chair, Animal Systematics Search Committee, Department of Evolution, Ecology, and Organismal Biology, The Ohio State University, 1735 Neil Avenue, Columbus, OH 43210. Review of applications will begin on December 15, 2002, and will continue until a suitable candidate is identified. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.

## ASSISTANT EDITOR Nature Structural Biology

*Nature Structural Biology* is a prestigious monthly scientific journal covering all aspects of research on biomolecular form and function. We now have an opening for a Scientist to join us full-time as an Assistant Editor in our office in New York City.

The successful candidate will participate in all aspects of the editorial process and attend scientific meetings regularly. Applicants should have a strong background in research in molecular biology; biochemistry; or structural biology including a Ph.D. and, preferably, some postdoctoral experience. The ideal candidate will have excellent communication skills and judgement and be enthusiastic about communicating science to a wide audience.

Please submit curriculum vitae, a short (500 to 1,000 words) "News and Views"-style article on an exciting and newsworthy recent development in a relevant scientific area, and a cover letter explaining your interest in the position to: Human Resources Department, Nature Publication Group, 345 Park Avenue South, New York, NY 10010. FAX: 212-696-9594; e-mail: [admin@natureny.com](mailto:admin@natureny.com). Consideration will begin as soon as applications arrive; application should arrive no later than December 6, 2002.

**ENVIRONMENTAL STUDIES:** San José State University (subject to budgetary approval). **ASSISTANT PROFESSOR.** Ph.D. in physical or natural sciences preferred. Technical, analytical, or policy skills in energy or water resources preferred; other fields of environmental science/studies will be considered. Basic duties: Teach and advise undergraduate and M.S. students and conduct research. Applicants should have a strong background in quantitative methods and should be Scientists/Analysts with experience solving environmental issues. Apply by January 15, 2003. Send letter of application, curriculum vitae, names of three professional references, and copy of graduate transcripts to: Dr. Lynne Trulio, Chair, Environmental Studies, San Jose State University, San Jose, CA 95192-0115. Do not e-mail applications. For further information, e-mail Dr. Trulio; e-mail: [ltrulio@email.sjsu.edu](mailto:ltrulio@email.sjsu.edu). SJSU is an Equal Opportunity/Affirmative Action Employer committed to the core values of inclusion, civility, and respect for each individual. Reasonable accommodations are made for applicants with disabilities.

# POSITIONS OPEN



## RESEARCH CHEMIST (PLANT BIOCHEMIST)

USDA/ARS, Madison, Wisconsin

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Cereal Crops Research Unit in Madison, Wisconsin, is accepting applications for a Research Chemist (Plant Biochemist) to investigate biochemical processes occurring in seeds during germination and malting with the objective of improving malting and brewing processes and assisting plant breeders in developing superior barley cultivars. The incumbent will also supervise the malting quality evaluation of breeders' barley lines. The successful candidate will be able to purify and assay enzymes from plants; will be knowledgeable about protein chemistry; and will be able to analyze proteins by amino acid analysis, mass spectrometry, etc. May also be able to perform Western blotting, proteomic analysis, and molecular biological techniques. The incumbent will collaborate with unit Scientists and others working to improve barley germplasm for malting. Applicants must have a Ph.D. in biochemistry or related field directly related to the position and/or professional research experience. Salary range: \$54,275 to \$99,150 per year is commensurate with experience plus benefits. Candidates must be U.S. citizens. For more information about the research program, contact: Dr. David M. Peterson; Telephone: 608-262-4482; e-mail: [dmpeter4@wisc.edu](mailto:dmpeter4@wisc.edu). For a copy of the vacancy announcement and application forms, contact: Jean Weinbrenner; Telephone: 608-264-5357; e-mail: [jweinbr@wisc.edu](mailto:jweinbr@wisc.edu) or visit website: <http://www.ars.usda.gov/opportun.htm>. Applications should be marked ARS-X3W-3033 and must be postmarked by December 28, 2002. USDA is an Equal Opportunity Provider and Employer. Women and minorities are encouraged to apply.

## FACULTY POSITION ACCELERATOR PHYSICS University of California, Riverside

The Department of Physics at the University of California, Riverside, invites highly qualified applicants to apply for a new faculty position in accelerator physics. This position may be filled at either the **ASSISTANT PROFESSOR** or tenured **ASSOCIATE PROFESSOR** level. The appointment will be effective July 1, 2003. The Department is seeking outstanding candidates with exceptional research records and demonstrated excellence in teaching. The successful candidate is expected to establish a leading-edge research program involving graduate students in what will be a new area in the Department and contribute to Department teaching at all levels. The Department currently carries out research in experimental and theoretical condensed matter physics, astrophysics, and high-energy physics. Candidates for this position are required to have a Ph.D. or equivalent degree in physics. Salary will be competitive and commensurate with qualifications and level of appointment. Candidates should submit a letter of application, curriculum vitae, list of publications, evidence of teaching skills, and evidence of an outstanding research program. Candidates should also provide evidence of leadership and initiative since accelerator physics will be a new area in the Department. They should arrange to have three letters of reference sent to the Department and be willing to submit additional references on request. Letters should be sent to: Chair, Accelerator Physics Search Committee, Department of Physics, University of California, Riverside, Riverside, CA 92521-0413 U.S.A. Full review of applications will begin January 20, 2003. Applications received after this date will be considered on a case-by-case basis until the position is filled. The University of California is an Equal Opportunity/Affirmative Action Employer.

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## Director of a new Bioinformatics Facility

**Build, manage and develop a first class support facility for bioinformatics & computational biology in a vibrant scientific environment. Participate in a major expansion at one of the world's premier research institutes and cancer hospitals.**

The Bioinformatics Core (BIC) at MSKCC in New York City (Manhattan) will facilitate scientific discoveries by supporting basic and clinical research groups. The director will recruit and manage several teams who will provide training programs, research project support, web-based tools, a high performance computing facility and database integration of genomic, pathway and clinical information.

Candidates should have a Ph.D. or equivalent in a natural or computing science and at least 4 years of management experience in a biotech or pharmaceutical enterprise or in an academic or clinical setting.

BIC is a key part of the new Computational Biology Center, headed by Chris Sander. The Center provides an excellent research environment and is expected to include seven faculty researchers by the time the new MSKCC research building opens in 2005.

MSKCC offers a comprehensive & flexible package of employee benefits and a competitive salary. To apply, send your CV, a one-page statement of interest and management style, and the names of three referees.

Apply to [cbiojobs@mskcc.org](mailto:cbiojobs@mskcc.org)

Scientific contact: Chris Sander [sanderc@mskcc.org](mailto:sanderc@mskcc.org)

Please see our additional ad for our Computational Biology Center

EOE/AA

## 2 TENURE-TRACK ASSISTANT PROFESSORS MICROBIOLOGY and PHYSIOLOGY DEPARTMENT OF BIOLOGICAL SCIENCES UNIVERSITY OF NEVADA, LAS VEGAS

The Department of Biological Sciences at the University of Nevada, Las Vegas is searching for two tenure-track faculty members at the ASSISTANT PROFESSOR level. The Department has active undergraduate and graduate programs and a diverse faculty of 23 individuals representing strengths in physiology, ecology and systematics and rapid growth in cell and molecular biology.

- 1. ASSISTANT PROFESSOR - MICROBIOLOGY:** The successful candidate will be a broadly trained microbiologist. Research area is open, but we are seeking an individual who addresses current problems in microbial ecology, biogeochemistry, host-microbe interactions, or bioremediation. Individuals who are interested in microbial process studies in the context of adaptive responses to environmental stress or global change are particularly encouraged to apply. Teaching responsibilities include a commitment to general microbiology and a contribution to upper-division/graduate courses. Address applications to **Dr. Stan Smith** ([ssmith@ccmail.nevada.edu](mailto:ssmith@ccmail.nevada.edu)), Chair, Microbiology Search Committee.
- 2. ASSISTANT PROFESSOR - INTEGRATIVE PHYSIOLOGY:** The successful candidate will join an active group of 6 physiologists with research programs encompassing comparative, evolutionary and environmental perspectives. Research area is open, but, individuals who are interested in physiological processes in the context of stress adaptation and who use contemporary genomic and proteomic tools are encouraged to apply. Teaching responsibilities include participation in the undergraduate/graduate physiology curriculum. Address applications to **Dr. Carl Reiber** ([reiber@ccmail.nevada.edu](mailto:reiber@ccmail.nevada.edu)), Chair, Integrative Physiology Search Committee.

Each successful candidate will possess a Ph.D. and postdoctoral experience in the biological sciences and be expected to develop a rigorous, externally funded research program that includes mentorship of M.S. and Ph.D. students. Salary is commensurate with qualifications and experience. Position is contingent upon funding. Competitive start-up funds and excellent core research facilities are available and growing through a recent NSF EPSCoR Infrastructure Award. The University of Nevada, Las Vegas, is a nationally recognized research institution located in a dynamic urban setting and diverse ecological surroundings.

Please send curriculum vitae, research plan, statement of teaching interests/philosophy and have three reference letters sent to the appropriate search committee. **Mailing Address: Department of Biological Sciences, University of Nevada, Las Vegas, 4505 Maryland Parkway, Las Vegas, NV 89154-4004.** Review of all applications will begin **December 15, 2002**, and continue until the positions are filled. For additional information, see the UNLV Web site <http://www.unlv.edu> or contact the **Department of Biological Sciences at 702-895-3390**.

*UNLV is an Affirmative Action/Equal Opportunity Educator and Employer committed to excellence through diversity.*



## POSITIONS OPEN

### POSTDOCTORAL ASSOCIATE Molecular Biology

This is a Postdoctoral Research Associate position at the Cooperative Institute for Marine and Atmospheric Studies (CIMAS) of the University of Miami. The Postdoctoral Research Associate will be interacting with Scientists at the National Oceanic and Atmospheric Administration's Atlantic and Oceanographic Laboratory (NOAA/AOML) in Miami, Florida. The research relates to the area of molecular biology/chemistry with emphasis on nucleic acid-based sensor development. A Ph.D. in microbiology, biochemistry, or related field is required. Experience in microbiology, DNA purification, hybridization, sequencing, biosensors, and micro/macroarray design is also required. The appointment is for one-and-one-half years contingent on funding.

Applications will be accepted through December 30, 2002. Please send a current résumé including names, e-mail addresses, and postal addresses of three references to:

**Dr. Joseph M. Prospero, Director**  
University of Miami  
Cooperative Institute for Marine and  
Atmospheric Studies  
4600 Rickenbacker Causeway  
Miami, FL 33149

If you have questions regarding the position, please contact: **Dr. Kelly Goodwin; e-mail: kgoodwin@rsmas.miami.edu.** The University of Miami is an Equal Opportunity/Affirmative Action Employer.

### PROJECT DIRECTOR Greater Caribbean Ecoregional Plan (Two-Year Position)

The Nature Conservancy seeks two-year Project Leader to create unifying cross-boundary conservation vision throughout Greater Caribbean Basin. Work through a team of Scientists to coordinate assessments of terrestrial, freshwater, coastal/marine ecosystems, threats, and abatement strategies. Develop project management mechanisms and devise plan to implement conservation actions at regional scale and at site or land/seascape level. Advanced degree in conservation biology or M.B.A. emphasizing program management. PMI certified. Three years of experience in developing and implementing conservation plans. Knowledge of Caribbean culture, political institutions and conservation issues, partnership/team building, managing complex projects. Fundraising skills essential. Extensive travel. Location negotiable. Application deadline: December 1, 2002. Send cover letter and résumé to: **The Nature Conservancy, Department CH, 4245 North Fairfax Drive, Arlington, VA 22203. E-mail: jobs@tnc.org** (please indicate job title in subject line). *Equal Opportunity Employer.*

**RESEARCH ASSOCIATE:** Department of Biochemistry and Molecular Biology, Washington, D.C. Well-tuned laboratory seeking recent Ph.D. in cell/molecular biology who is currently working in United States of America or Canada by early January 2003 for the continuation of a recently initiated, ongoing five-year NIH grant. To study the cell cycle, PARP, E2F1, p53, genomic stability, chromatin remodeling via ChIP and HDAC. Check: Smulson MS on Pub Med. E-mail résumé to e-mail: **smulson@georgetown.edu.**

**A RESEARCH SCIENTIST** position in stem cell biology immediately available for translational research in using stem cell-derived islets in treating diabetes. Qualified candidates will possess Ph.D. or M.D./Ph.D.; two to four years of postdoctoral experience; strong background in stem cell biology, diabetes, molecular biology, and tissue culture. Send curriculum vitae and three references to: **Ixion Biotechnology, Inc., Dr. Ramiya, 13709 Progress Boulevard, Alachua, FL 32615. E-mail: ramiya@biotech.ufl.org; website: http://www.ixion-biotech.com.** *Equal Opportunity Employer.*

## POSITIONS OPEN

### POSTDOCTORAL AND GRADUATE STUDENT POSITIONS Redox Biology Center

Postdoctoral and graduate student positions are available immediately in the newly established Nebraska Redox Biology Center (RBC). RBC is supported by NIH as a Center for Biomedical Research Excellence and conducts interdisciplinary biomedical research in redox biology. Positions are available in the following laboratories: **Han Asard (e-mail: hasard2@unl.edu).** Vitamin C, cellular redox status, protein expression, redox regulation. **Ruma Banerjee, RBC Director, (e-mail: rbanerjee@unl.edu).** Redox enzymology. **Joseph Barycki (e-mail: barycki2@unl.edu).** Crystallographic and biochemical characterizations of enzymes involved in glutathione metabolism. **Dhruba Chakravarti (dchakrav@uamc.edu).** Base excision repair and mutagenesis. **Vadim Gladyshev (e-mail: vgladyshev@unl.edu).** Redox regulation, selenoproteins, bioinformatics, cancer prevention, aging. **Marjorie Lou (e-mail: mloul@unl.edu).** Biochemical mechanism of cataract formation, redox signaling and controls, thiol regulations in the lens. **Stephen Ragsdale (e-mail: stragsdale@unl.edu).** Metallobiochemistry, redox enzymes. **Stephen Scott (e-mail: sscott@csce.unl.edu).** Computational biology and machine learning. To apply, please e-mail curriculum vitae and contact details of three references directly to Principal Investigators or send the application to: **Joyce Ore, Department of Biochemistry, Redox Biology Center, N118 Beadle, University of Nebraska-Lincoln, Lincoln, NE 68588-0664.**

### EVOLUTIONARY GENETICS

University of North Carolina, Chapel Hill

The Department of Biology (website: <http://www.bio.unc.edu/>) and the Carolina Center for Genomic Sciences (website: [http://genomics.unc.edu/flash/index\\_flash.htm](http://genomics.unc.edu/flash/index_flash.htm)) seek a tenure-track ASSISTANT or ASSOCIATE PROFESSOR in evolutionary/ecological genetics. We especially encourage applications from those who use molecular genetic and genomic approaches to study the genetic bases of complex traits that are relevant to ecology or evolution. Applicants should submit (1) curriculum vitae, (2) copies of significant publications, (3) a description of current and future research, and (4) a summary of teaching interests and experience. Applicants should also arrange to have four letters of recommendation sent to: **David Pfennig, Chair, Evolutionary Genetics Search Committee, Department of Biology, CB Number 3280, Coker Hall, University of North Carolina, Chapel Hill, NC 27599 U.S.A.** Closing date: open until filled but all application materials including letters of recommendation must be postmarked by January 10, 2003, to be assured full consideration.

*The University of North Carolina is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.*

**A POSTDOCTORAL POSITION** is immediately available in the Department of Medicine at the Medical University of South Carolina to study metabolism of sphingolipids and their roles in the development of the cardiovascular system. The successful applicant with a Ph.D. or M.D. will have a strong background in biochemistry, cell biology, and/or molecular biology. Experience in molecular cloning, protein and lipid chemistry, protein expression using yeast, angiogenesis assays, and the use of animal models is desirable. Please send your curriculum vitae and a cover letter stating your research experience and interest to: **Dr. Cungui Mao, Department of Medicine, Medical University of South Carolina, P.O. Box 250779, 114 Doughty Street, Room 646 STRB, Charleston, SC 29425.**

## POSITIONS OPEN

The School of Earth and Environmental Science at Washington State University invites applications for two positions. The School is a new unit formed by combination of WSU's Department of Geology and Program in Environmental Science and Regional Planning.

**EARTH SURFACE PROCESSES (ESP)/BIOGEOCHEMIST.** We seek a Scientist at the ASSISTANT PROFESSOR level with demonstrated ability to develop a research program that focuses on interactions between Earth surface processes and biogeochemical systems. We are interested in candidates with interdisciplinary perspectives and training in fields such as (but not limited to) geomorphology, neotectonics, ecosystem/landscape ecology, or hydrology. Successful applicants are expected to have completed a Ph.D. and to develop and maintain an extramurally funded research program. Demonstrated skills in GIS, remote sensing, spatial statistics, or another broadly applicable methodology are desirable. The successful candidate will have a demonstrated commitment to teaching; responsibilities may range from introductory courses to a graduate course in their specialty.

**SENIOR AQUATIC ECOSYSTEM ECOLOGIST.** We seek a candidate with a vigorous research program in the area of aquatic ecosystem ecology at a senior rank (ASSOCIATE PROFESSOR or PROFESSOR). Specific areas of research could include but are not limited to nutrient cycling and transport, environmental risk assessment, or restoration of aquatic ecosystems. We are particularly interested in an individual with a broad view of ecology who brings a demonstrated ability to foster innovative collaborations to address environmental science questions. The successful candidate will have a proven record of funded research and excellence in teaching both graduate and undergraduate students.

The units and their facilities are described further at websites: <http://www.wsu.edu/~geology> and <http://esrp.wsu.edu>. Applications or inquiries concerning these positions should be made to the appropriate Search Committee Chair:

**ESP/Biogeochemistry: Richelle Allen-King, Chair, ESP/BGC Search Committee, Department of Geology, P.O. Box 642812, Washington State University, Pullman, WA 99164-2812. E-mail: libey@mail.wsu.edu** (attention: ESP/BGC search).

**Aquatic Ecology: Andy Ford, Chair, Aquatic Ecologist Search Committee, Environmental Science and Regional Planning, P.O. Box 644430, Washington State University, Pullman, WA 99164-4430. E-mail: ofallon@wsu.edu** (attention: aquatic ecology search).

Applicants should send (1) curriculum vitae; (2) a statement of research interests; (3) a statement of teaching experience and interests; (4) selected reprints; and (5) the names and contact information (mailing and e-mail addresses, telephone numbers, and FAX numbers) of at least three people who can write letters of reference. Review of applications begins December 27, 2002.

*Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. People of color, women, Vietnam-era or disabled veterans, disabled persons, and/or persons over the age of 40 are encouraged to apply. The School is committed to the importance of a diverse faculty. Women and minorities are particularly encouraged to apply.*

### CAREER IN OPTOMETRY, OPTOMETRIC RESEARCH, OR TEACHING

The New England College of Optometry offers a unique program for those with a Doctorate in the sciences: biology, chemistry, physics, psychology, etc. Candidates have the opportunity to obtain the Doctor of Optometry (O.D.) degree in 27 months. The Program begins annually in March. Employment opportunities exist in clinical practice, industry, optometric faculty positions, and research. Contact: **Admissions Office, Department S, 424 Beacon Street, Boston, MA 02115. Telephone: 1-800-824-5526; e-mail: [admissio@ne-optometry.edu](mailto:admissio@ne-optometry.edu); website: <http://www.ne-optometry.edu>.** Application deadline: February 1, 2003.



**POST DOCTORAL POSITION** available immediately in the NIH/NIAID/Laboratory of Allergic Diseases to study heterotrimeric G protein signaling and Regulator of G-protein signaling (RGS) proteins in inflammatory cells using biochemical techniques and knockout mice. A Ph.D. and/or M.D. and experience in molecular and cellular biology is required. Interest and/or experience in animal models is desirable. Salary based on relevant experience and education. Send cover letter, C.V., summary of past work, and names and addresses of three references to:

**Dr. Kirk Druey, Laboratory of Allergic Diseases**

**Molecular Signal Transduction Section  
NIAID/NIH/Twinbrook II, Room 200E  
12441 Parklawn Drive, Rockville, MD  
20852 USA**

**E-mail: [kdruey@niaid.nih.gov](mailto:kdruey@niaid.nih.gov)**

For information see:

**<http://www.niaid.nih.gov/dir/labs/LAD/molecular.htm>**

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## University of Massachusetts Boston

### Alton J. Brann Distinguished Professorship

The Alton J. Brann Distinguished Professorship is a chaired tenured position in the College of Arts & Sciences. It carries endowed support and is to be filled by a distinguished scientist who will influence and enhance our computational science programs. Initial appointment will be at the professor level, although if a suitable junior candidate is selected it will be at the associate professor level.

We are seeking a scientist who is actively involved in computational science and who has an interdisciplinary research program in such areas as bioinformatics, ecoinformatics, computational molecular biology, ecosystems modeling, computational physics, or computer engineering. The applicant's established research area will complement and build on existing strengths, and offer an opportunity to develop an active program around the chaired position that would support post doctoral fellows, visiting scientists, industry practitioners, and additional research activities. Candidates are expected to have a distinguished research publication record and significant record of external grant support. The candidate will have a primary appointment in one of the doctoral granting departments with a joint appointment, if appropriate, in one of the other science departments.

The successful candidate will be expected to:

- Add to the existing strengths in the Sciences and increase UMass Boston's visibility both nationally and internationally in a way that attracts other scholars to our campus.
- Have an established or emerging national and international reputation in computational science.
- Develop an active research agenda at this campus, initiating and engaging in collaborative and interdisciplinary programs.
- Obtain substantial external research support.

Review of applications will begin in January 2003 and continue until the position is filled. Please send a cover letter, curriculum vitae, and names, addresses and telephone numbers of three references to **Chair, Alton Brann Professorship Search Committee, University of Massachusetts Boston, Office of Human Resources, Search #610, 100 Morrissey Blvd., Boston, MA 02125-3393.**

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### DIRECTOR – UNIVERSITY OF FLORIDA GENETICS INSTITUTE

The **University of Florida** seeks a Director for the University of Florida Genetics Institute (UFGI). Candidates should have a Ph.D. or M.D. degree with a nationally recognized record of research achievement in the area of genetics and administrative experience. Major development of the Genetics Institute is a University priority as indicated by the planned construction of a new 300,000 sq. ft. building shared equally by the Genetics Institute and the Shands Cancer Center. The Institute will bring together diverse programs in human, plant, animal and microbial genetics. This new facility will house relevant units including the Powell Gene Therapy Center, a state of the art vivarium, plant growth facilities, genomics, proteomics, bioinformatics and other core facilities.

The director will be responsible for facilitating the University-wide strategic research initiatives as well as the educational goals of the UFGI through resource acquisition (grant acquisition and fund-raising), as well as new faculty recruitment and facility development assisted by targeted investments provided by the University. The Director will also be responsible for the coordination, design, performance, and evaluation of new and existing educational programs within the institution. Finally, the Director will be responsible for coordinating activities of all Genetics Institute Faculty with appointments in the College of Medicine, the College of Liberal Arts and Sciences and the Institute of Food and Agriculture Sciences. The academic appointment of the Director will be in the appropriate College, based on the candidate's qualifications and expertise.

A start date of July 1, 2003 is anticipated and salary will be commensurate with qualification and responsibilities. Qualified applicants should submit a curriculum vitae to **Richard W. Moyer, Chair UFGI Search Committee, Dept. of Molecular Genetics, P.O. Box 100266, University of Florida College of Medicine, Gainesville, FL 32610-0266.**

*EEO/AAE*



### Bacterial Pathogenesis Faculty Member

St. Jude Children's Research Hospital DEPARTMENT OF INFECTIOUS DISEASES invites applications for tenure-track Assistant or Associate-level FACULTY positions within an internationally recognized department. In addition to laboratory based programs in bacterial and viral pathogenesis, the department has extensive clinically based research programs including immunocompromised patients relevant to infectious diseases.

M.D. or Ph.D. degree and thorough knowledge of bacterial pathogenesis is required. The candidate should have specific expertise in basic research, utilizing techniques in molecular biology, cell culture, animal models and biochemistry. A very generous recruitment package commensurate with experience is available. Recruiting deadline is February 1, 2003.

Applicants should include a curriculum vitae, statement of research interests and goals and should arrange to have three letters of recommendation forwarded to:

**Elaine I. Tuomanen, M.D., Chair  
Department of Infectious Diseases  
St. Jude Children's Research Hospital  
332 North Lauderdale Street  
Memphis, TN 38105-2794**

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## POSITIONS OPEN



### POSTDOCTORAL POSITION Tumor Virology

Position available to study viral IL-6 signaling in KSHV-infected cells (see this issue). Additional studies involve effects of other KSHV oncogenes on immune evasion, cell cycle regulation, and apoptosis. Our laboratory is also active in the search for other new pathogens involved in chronic diseases and cancers. Send curriculum vitae and three references by FAX or mail to: Patrick S. Moore, M.D., M.P.H. and Yuan Chang, M.D., Molecular Virology Program, Hillman Cancer Center, Suite 1.8, Research Pavilion, University of Pittsburgh Cancer Institute, 5117 Centre Avenue, Pittsburgh, PA 15213. Website: [http://www.upci.upmc.edu/internet/research/Mol\\_Virology/index.html](http://www.upci.upmc.edu/internet/research/Mol_Virology/index.html).

### POSTDOCTORAL FELLOWSHIP POSITION ASSISTANT STAFF INVESTIGATOR POSITION

Department of Neurology  
Henry Ford Health Sciences Center

We are seeking applications for these two positions: Developmental Cell Biologist and a Molecular Virologist in the Department of Neurology at Henry Ford Health Sciences Center. The successful candidates will work as part of a highly productive and well-funded research team on cell and pharmacologic induction of brain plasticity for the treatment of neural injury and neurodegenerative disease. Postdoctoral candidates will have the opportunity to become bioscientific staff after successful completion of the postdoctoral program. To apply for these positions, please send a cover letter and curriculum vitae to: Dr. Michael Chopp; e-mail: [chopp@neuro.hfh.edu](mailto:chopp@neuro.hfh.edu) or Department of Neurology, Henry Ford Hospital, 2799 West Grand Boulevard, E and R 3056, Detroit, MI 48202. Henry Ford Health System is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available to study Hedgehog (Hh) signaling pathway in animal development and human cancer (*Cell* 100:423-434, 2000). Current work focuses on the regulation of Gli transcription factors by Hh signaling. Experience in molecular biology, genetics, and/or developmental biology is desirable. E-mail or FAX cover letter, curriculum vitae, and reference information to: Baolin Wang, Ph.D., Weill Medical College of Cornell University, 1300 York Avenue, Room W-404, New York, NY 10021. E-mail: [baw2001@med.cornell.edu](mailto:baw2001@med.cornell.edu); FAX: 212-746-8318; website: <http://www.med.cornell.edu/jobs>. Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.

### POSTDOCTORAL RESEARCH ASSOCIATE

Positions are immediately available to study the pathogenesis of AIDS encephalopathy associated with drug abuse. Candidate should have a Ph.D./M.D. with a strong background in cellular/molecular biology and immunology. Experience in tissue culture, RT-PCR *in situ* hybridization, and apoptosis is desirable. Applicants should send curriculum vitae and names of two references to: Dr. Mahavan Nair, Division of Allergy, Immunology, and Rheumatology, University at Buffalo, Buffalo General Hospital, 100 High Street, Buffalo, NY 14203. E-mail: [mnair@buffalo.edu](mailto:mnair@buffalo.edu).

### POSTDOCTORAL POSITIONS

Available immediately in an interactive laboratory studying atherosclerosis: vascular biology, molecular biology, immunology, and mouse models. Contact: Dr. Linda K. Curtiss, The Scripps Research Institute, IMM-17, 10550 North Torrey Pines Road, La Jolla, CA 92037. See website: <http://www.scripps.edu/imm/curtiss/>; e-mail: [lcurtiss@scripps.edu](mailto:lcurtiss@scripps.edu). Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH FELLOWS Mucosal Immunology and Mathematical Biology University of Washington

NIH-funded **POSTDOCTORAL POSITIONS** are available immediately to conduct research in HIV-1 pathogenesis in the laboratories of Drs. Scott Brodie and John Mittler. Specific projects being pursued are (1) immunopathogenic mechanisms of mucosal HIV replication and shedding and (2) mathematical modeling of viral dynamics and cytokine networks. Applicants for the first project should have a Ph.D., M.D., or D.V.M. with a background in mucosal immunology. Applicants for second project should have a Ph.D. in applied mathematics, computational biology, or other quantitative disciplines and show a willingness to work closely with Pulmonologists and Clinical Virologists. Successful candidates will have appointments in the Departments of Laboratory Medicine and/or Microbiology. We offer a competitive salary with excellent benefits. To apply, send curriculum vitae with letter of interest and a list of three references to: Gail Schmitz, project Manager, Department of Laboratory Medicine, P.O. Box 358070, Seattle, WA 98195-8070. Equal Opportunity Employer.

### POSTDOCTORAL FELLOWSHIP VIRAL HEPATITIS National Institutes of Health Department of HHS

Postdoctoral positions are available to study the molecular pathogenesis of viral hepatitis B and C. Research projects focus on virus-cell and virus-host interactions and the molecular, cellular, and pathogenic consequences of such interactions with particular interest in novel vaccine and antiviral development. Training in molecular biology, virology, and tissue culture is required and experiences with protein expression, immunologic techniques, and mouse work are strongly preferred. For more detailed information, please search website: [http://nidb.nih.gov/search/search\\_year.taf](http://nidb.nih.gov/search/search_year.taf) for Jake Liang. Applicants should have an M.D. or Ph.D. and should have less than five years of postdoctoral experience. Applicants should send curriculum vitae and three letters of reference to: Dr. T. Jake Liang, LDS, NIDDK, NIH, Building 10-9B16, 10 Center Drive, Bethesda, MD 20892-1800. HHS and NIH are Equal Opportunity Employers.

### POSTDOCTORAL FELLOWSHIPS University of California, San Francisco (UCSF)

Applications are sought for Postdoctoral Fellowships supported by an NIH Institutional NRSA Training Grant focused on the molecular and cellular basis of cardiovascular disease in the Cardiovascular Research Institute at the University of California, San Francisco. Areas of research include signaling and cell biology, developmental biology and cell differentiation, genetics and lipoprotein biology. Faculty research descriptions and instructions for application can be found at website: <http://www.cvri.ucsf.edu> (click on Training Programs). Candidates must hold an M.D. or Ph.D. and be U.S. citizens or permanent residents.

UCSF undertakes Affirmative Action to assure Equal Employment Opportunity for underrepresented minorities (African American, Hispanic, American Indian, Pacific Islander). We are especially interested in increasing the diversity of our Postdoctoral trainees.

### PROTEOMICS

**POSTDOCTORAL POSITION** is available immediately to study proteomics of the cattle tick *Boophilus microplus* to identify genes/proteins involved in pesticide resistance. Desire expertise in 2-D gels and recombinant DNA. GS-11 salary plus full benefits. Candidates must be U.S. citizens. Details at website: <http://www.ars.usda.gov/careers/>, Position Number RA-02-090H. Send curriculum vitae/references to: Dr. Felix Guerrero, USDA/ARS Research Laboratory, 2700 Fredericksburg Road, Kerrville, TX 78028. E-mail: [felixg@krc.com](mailto:felixg@krc.com). U.S. Department of Agriculture is an Equal Opportunity Employer.

## POSITIONS OPEN



**POSTDOCTORAL POSITION:** A Postdoctoral position is available immediately to participate in an ongoing program on characterization of translocations and other chromosome rearrangements in leukemic patients at the level of the DNA sequence using scFISH technology (*Genome Res.* 11:1086, 2001). This research is funded by the National Cancer Institute and involves the use of methods in fluorescence *in situ* hybridization (FISH), microscopy, molecular biology, and genome analysis. Applicants should have a Ph.D. with a strong background in genetics and experience in fluorescence microscopy and molecular biology. Experience in genome analysis is preferred. The ability to work both as a team member and independently is essential. Applicants should send (preferably by e-mail) curriculum vitae, a brief summary of their research experience, and the names of three references to: Joan H.M. Knoll, Ph.D.; e-mail: [jknoll@cmh.edu](mailto:jknoll@cmh.edu) or Peter K. Rogan; e-mail: [progan@cmh.edu](mailto:progan@cmh.edu), Biomolecular Laboratories, Children's Mercy Hospitals and Clinics, University of Missouri-Kansas City School of Medicine, 2401 Gillham Road, Kansas City, MO 64108. Telephone: 816-931-4441; FAX: 816-753-1307. Children's Mercy Hospitals and Clinics is an Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL POSITION

The Division of Molecular Epidemiology, National Center for Toxicological Research, Food and Drug Administration, is seeking applicants for a Postdoctoral position in molecular epidemiology. Candidates must have a Doctorate in biochemistry. Experience with DNA adducts and/or protein chemistry with knowledge of human biomonitoring is preferred. The successful candidate will join a group conducting cutting-edge molecular biology and epidemiology research focused on developing genomic and proteomic markers of cancer susceptibility and early detection. Starting salary will be approximately \$43,380. Interested individuals should send a cover letter, curriculum vitae, brief summary of experience and research goals, copies of relevant publications, and a list of three references to:

Division of Molecular Epidemiology  
National Center for Toxicological Research  
3900 NCTR Drive, Jefferson, AR 72079

NCTR is an Equal Opportunity/Affirmative Action Employer.

A **POSTDOCTORAL POSITION** is available to study vaccination and signal transduction in tumors. The areas include signaling and vaccination against a natural variant of the EGF receptor; the Gab1 docking protein; and JNK (*Nature* 379:560; *PNAS* 94:12419; *Can. Res.* 55:5536; *JBC* 273:2817; *J. Cell Biol.* 155:755). A competitive salary and benefits provided. Please send or e-mail curriculum vitae to: Alison Keiser (reference AJW), Thomas Jefferson University, 201 South 11th Street, Philadelphia, PA 19107-5595. E-mail: [ajw@mail.jci.tju.edu](mailto:ajw@mail.jci.tju.edu). Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available in Boston, Massachusetts, to study signaling pathways responsible for the control of platelet function and thrombosis. Candidates should have a Ph.D. or M.D. degree and must have a significant background in molecular biology. Send curriculum vitae and names of three references to: Dr. Jane Freedman, Department of Medicine, Boston University Medical Center, 715 Albany Street, W507, Boston, MA 02114. FAX: 617-638-4066; e-mail: [freedmaj@bu.edu](mailto:freedmaj@bu.edu).





## POSTDOCTORAL POSITION AVAILABLE IN THE LABORATORY OF ALLERGIC DISEASES NIAID/NIH

A Post-doctoral position is available in the Laboratory of Allergic Diseases NIAID/NIH using mouse models of allergic disease, with an emphasis on developing a basic understanding of in vivo mechanisms of allergic inflammation/asthma. The project will involve using cellular and molecular approaches to study gene expression in inflammatory cells. We are particularly interested in the role of T regulatory cells in the suppression of the allergic response. For this position, we are looking for a motivated individual with an M.D., Ph.D., or M.D./Ph.D. in Immunology, Physiology, or Molecular/Cell biology who has experience working with animal models, and who preferably has interest in inflammation and cytokine/chemokine expression.

Salary will be determined according to experience and education. Qualified and interested candidates should send a copy of their curriculum vitae, and contact details including phone numbers and email addresses of three references to: **Post-doctoral Search Committee, c/o Andrea Keane-Myers, Ph.D., NIH/NIAID/LAD Twinbrook II Facility, Room 200E, 12441 Parklawn Drive, MSC 8180, Rockville, MD 20852-8180. E-mail: akeane@niaid.nih.gov.**

*The NIH is an Equal Opportunity Employer*



## VICE PROVOST FOR AGRICULTURE AND OUTREACH AND DEAN, COLLEGE OF AGRICULTURAL SCIENCES



Colorado State University invites applications and nominations for the position of Vice Provost for Agriculture and Outreach, and Dean of the College of Agricultural Sciences.

Reporting directly to the Provost/Vice President for Academic Affairs, the Vice Provost will be responsible for long-range planning and for developing approaches to agricultural issues of importance to the University, Colorado, and the region. This position has overall leadership and budgetary responsibility for the university agencies of Cooperative Extension, the Agricultural Experiment Station, and the Colorado State Forest Service. The Vice Provost serves as the University's spokesperson for agriculture and chairs a CSU internal Council on Agriculture charged with coordinating the University's agriculturally related instructional, research and extension programs.

As Dean, the candidate will be the chief administrative and academic officer of the College of Agricultural Sciences with responsibility for leadership in coordinating and overseeing the College's programs, budgets and related activities including resident instruction, research, outreach and international activities.

While the Search Committee will accept applications and nominations until a new Vice Provost/Dean is selected, interested individuals are encouraged to submit their materials to the following by January 10 to assure optimal consideration. Applicants should send a letter expressing their interest and qualifications for the position; a separate two-page philosophy of education, leadership and management; and a current curriculum vitae to: **Dallas Education Office, KORN/FERRY INTERNATIONAL, 2100 McKinney Avenue, Suite 1800, Dallas, Texas 75201; Email: ashley.garvin@kornferry.com; Fax: 214-954-1849.**

Additional information about the University and the College of Agricultural Sciences can be accessed at [www.colostate.edu](http://www.colostate.edu).

*Colorado State University is an Equal Opportunity/Affirmative Action Employer and complies with all Federal and Colorado State laws, regulations, and executive orders regarding affirmative action requirements. The Office of Equal Opportunity is located in Room 101 Student Services. In order to assist Colorado State University in meeting its affirmative action responsibilities, ethnic minorities, women and other protected class members are encouraged to apply and to so identify themselves.*



## WORLD HEALTH ORGANIZATION (WHO)

### International Agency for Research on Cancer (IARC)

At its Headquarters in Lyons, France, IARC has an opening for a position of  
**Scientist**

**in the Unit of Genetic Cancer Susceptibility (GCS)**

**Vacancy notice N° RC/02/6**

The successful candidate will take a lead role in developing a highly automated mutation detection and gene resequencing laboratory system incorporating database-interactive process management. He/she will also contribute to the development of highly automated genotyping systems and will take a lead role in at least one of the following areas: mutation detection and gene resequencing protocol development & optimization; robotics programming; sequence analysis; and database programming. The incumbent will participate in collaboration with other IARC Research Units and Groups, and with outside scientists in the implementation of molecular epidemiological studies and their execution.

Applicants should have a Ph.D. in Molecular Biology, or Biochemistry, or Biotechnology, or a related field, and at least 4 years of relevant professional experience at the national level or 2 years at the international level. Experience in mutation detection and gene resequencing protocol development & optimization, laboratory robotics programming, sequence analysis and database programming are desirable, as well as the ability to draft reports and grant proposals; and some supervisory experience.

The grade of the post is P3. The initial appointment will be for two years, the first being probationary. The annual salary level is US\$ 48 242 tax-free at single rate and US\$ 51 682 for a staff member with dependants, plus a cost of living element, which is currently 16.6% of the above figures.

Applications should be sent by 20 December 2002 to Personnel Office, IARC, 150 Cours Albert Thomas, 69008 Lyons, France, Fax +33 4 72 73 83 35, E-mail: [personnel@iarc.fr](mailto:personnel@iarc.fr)

For more information, see IARC home page: <http://www.iarc.fr> under "vacancies". When applying, please quote the vacancy notice number RC/02/6 and complete the WHO Personal History form, which is obtainable from the home page.

*Applications from women are encouraged.*

## Principal Investigator Position Hematopoiesis Research



Applications are invited for a position at the assistant professor level equivalent (Scientist I) in the Hematopoiesis Department at the Jerome H. Holland Laboratory for the Biomedical Sciences. Highly motivated Ph.D.s who can develop and maintain an extramurally funded basic research program focused on mechanisms in hematopoietic development, stem cell biology, or transplantation/tissue regeneration are encouraged to apply. Successful candidates are eligible for appointment to the faculty of The George Washington University Medical Center.

The Holland Laboratory, which is the national research and development division of American Red Cross Biomedical Services, is located ten miles north of the NIH in Rockville, MD, and offers an excellent start-up package, including full salary support.

Interested individuals should send their C.V., statement of research plans, and 3 references to: **Robert G. Hawley, Ph.D., Executive Director, Cell Therapy R&D, Head, Hematopoiesis Department, American Red Cross Holland Laboratory, 15601 Crabbs Branch Way, Rockville, MD 20855; or E-mail: [diehld@usa.redcross.org](mailto:diehld@usa.redcross.org)**



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## POSITIONS OPEN



## UNIVERSITY OF FLORIDA

### POSTDOCTORAL ASSOCIATE Department of Neurological Surgery

The Department of Neurological Surgery, College of Medicine, University of Florida, is seeking a Postdoctoral Associate to carry out research in the cellular basis of epilepsy. We utilize whole cell patch clamp recordings from neocortical slices and anatomical methods to study alterations in local circuitry in areas of cortical dysplasia and heterotopic gray matter. We also study synaptic plasticity in animal and human hippocampus. Salary will be commensurate with experience and academic qualifications. The anticipated starting date for this NIH-funded position is January 1, 2003, or as soon as possible thereafter.

Qualifications: Ph.D. in appropriate area of expertise. Experience in whole cell patch clamp recording from neurons is required. Applicants should submit a cover letter, curriculum vitae, and three professional letters of recommendation to:

**Steven N. Roper, M.D.**  
Department of Neurological Surgery  
P.O. Box 100265  
University of Florida  
Gainesville, FL 32610

*Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION Studies of Cultured Neural Networks California Institute of Technology

The position is for working on the development of a neurochip system for studying the development and plasticity of cultured networks of 25-50 neurons. We are collaborating with a Caltech microdevice laboratory, which is producing chips that enclose individual neurons in "wells" that allow outgrowth and that incorporate extracellular electrodes for stimulation and recording. The system will allow for long-term studies of how the connectivity and stimulus-response behavior of a moderately complex neural system develops and is modified by stimuli. The initial development work will include construction of an optical tweezers system and an electrophysiology data acquisition system. If you are interested, please contact: **Professor Jerry Pine; e-mail: jpm@caltech.edu**. Include curriculum vitae.

**POSTDOCTORAL FELLOWSHIPS.** Department of Molecular and Cellular Biology and the Department of Organismic and Evolutionary Biology, Harvard University. A limited number of Postdoctoral Research positions become available from time to time. Some appointments are funded through research grants awarded to faculty members and are ordinarily for one year, sometimes renewable; other appointments are possible through Postdoctoral Fellowships. For a list of faculty members who may have Postdoctoral positions available and for application instructions, please visit the following websites: <http://mcb.harvard.edu/careeropp> (MCB) and [http://www.oeb.harvard.edu/files\\_faculty/opportunities.cfm](http://www.oeb.harvard.edu/files_faculty/opportunities.cfm) (OEB).

*Harvard University is an Equal Opportunity/Affirmative Action Employer.*

**WESTERN CAROLINA UNIVERSITY.** Two positions open. **HEAD**, Department of Biology; Zoologist with experience in biotechnology preferred. Also **ASSISTANT PROFESSOR** with interest in environmental science. See website: <http://www.wcu.edu/as/DeanOffice/facpositions.html> for details.

**POSTDOCTORAL FELLOW** to study patterning of the early chick/mouse embryo and focusing on ear and neuroaxis development. Experience in or willingness to learn molecular biology and experimental embryology is required. Contact: **Gary C. Schoenwolf**, University of Utah, Salt Lake City, Utah; e-mail: [schoenwolf@neuro.utah.edu](mailto:schoenwolf@neuro.utah.edu).

## POSITIONS OPEN

### DEPARTMENT OF PSYCHIATRY AND HUMAN BEHAVIOR College of Medicine

A **POSTDOCTORAL POSITION** is immediately available for research in the areas of FGFR signal transduction and gene expression with applications to human skeletal dysplasias. The laboratory is housed in a neuroscience facility. Experience in protein biochemistry, cell culture, and molecular biology is desirable. Candidates must have a Ph.D. or an M.D. the salary range is \$31,044 to \$40,512 annually. Qualified candidates may send curriculum vitae, scientific aspirations, and three references to: **Leslie M. Thompson, Ph.D., Department of Psychiatry and Human Behavior, Gillespie 2121, University of California, Irvine, Irvine, CA 92697-4260. FAX: 949-824-6756; e-mail: lmthomps@uci.edu**. Closing date: December 1, 2002. *The University of California, Irvine, is an Equal Opportunity Employer committed to excellence through diversity.*

Multiple **POSTDOCTORAL POSITIONS** are available to study the biology and immunology of cytomegalovirus and herpes simplex virus in the laboratories of **Dr. Daniel Sedmak, M.D. (Chairman of the Department of Pathology)**, and **Joanne Trgovcich, Ph.D., at Ohio State University**. The Department of Pathology at Ohio State provides a dynamic environment and state-of-the-art resources to investigate the pathogenesis of diseases associated with herpes viruses. Applicants must hold a Ph.D. or M.D. and have research experience in immunology, virology, or cell/molecular biology. Send curriculum vitae, the names of three references, and a brief statement of research interests to: **Joanne Trgovcich, Ph.D., Department of Pathology, 4162 Graves Hall, 333 West 10th Avenue, The Ohio State University, Columbus, OH 43210 U.S.A. E-mail: trgovcich-1@medctr.osu.edu**. *Ohio State University is an Equal Opportunity Employer.*

### POSTDOCTORAL POSITIONS

#### Arkansas Children's Hospital Research Institute

Two positions at the Postdoctoral or **RESEARCH ASSISTANT PROFESSOR** level are available in early 2003 to study (1) the molecular basis of T cell tolerance and (2) the immunotoxicity of airborne pollutants. The successful applicant will have experience in molecular/cell biology, toxicology, and/or immunology. Both of these projects involve novel areas of research and thus offer unique opportunities for career development. Availability for an interview is required. Salaries will be commensurate with experience.

Send curriculum vitae to: **Dr. Kathleen Gilbert, Arkansas Children's Hospital Research Institute, 1120 Marshall Street, Little Rock, AR 72202. E-mail: gilbertkathleenm@uams.edu**.

A **POSTDOCTORAL POSITION** is available to study radiation and anticancer therapy-induced apoptosis and senescence in hematopoietic stem cells (HSC) and progenitors using various transgenic and knockout mice. Experience with HSC or bone marrow transplantation and analysis of various HSC and progenitor functions is preferred but not essential. Send a letter of research experiences and interest, curriculum vitae, and names and addresses of three references by e-mail or FAX to: **Dr. Daohong Zhou, Department of Pathology and Laboratory Medicine, Medical University of South Carolina; e-mail: zhoud@muscc.edu; FAX: 843-792-2257**.

The Department of Biomedical Engineering at The Johns Hopkins School of Medicine invites applications from **POSTDOCTORAL CANDIDATES** to work on collaborative projects between the Department and the Institute of Cell Engineering on stem cell biology related to tissue engineering. Please send curriculum vitae and names of three references through e-mail to: [kleong@bme.jhu.edu](mailto:kleong@bme.jhu.edu). Department of Biomedical Engineering, Ross 726, Johns Hopkins University School of Medicine, Baltimore, MD 21205.

## POSITIONS OPEN

## UNIVERSITY OF ROCHESTER

A **POSTDOCTORAL POSITION** is available to study the neural codes for the learning of sequential movements and decision making in primates using a multielectrode recording system. The candidate will join a large multidisciplinary group of Researchers in brain and cognitive sciences. Experience in neurophysiological recording and computer programming would be desirable. Send curriculum vitae, a statement of research interests, and three reference letters to: **Dae-yeol Lee, Ph.D., Department of Brain and Cognitive Sciences, University of Rochester, Rochester, NY 14627. Website: <http://www.bcs.rochester.edu/~dlee>. Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available to study the heat activation and multimodal functional mechanisms of VR1 channels using patch clamp recording, single-channel, kinetics and fluorescence spectroscopy. Experience in electrophysiology and ion channel biophysics is required. Contact: **Dr. Feng Qin, Department of Physiology, State University of New York, Buffalo, NY 14214. E-mail: [qin@acsu.buffalo.edu](mailto:qin@acsu.buffalo.edu)**.

## GRANT

### JOINT RESEARCH GRANT PROGRAM 2003-2004

#### National Parkinson Foundation and Parkinson's Disease Foundation

The National Parkinson Foundation, Inc. (NPF), and the Parkinson's Disease Foundation (PDF) are offering a joint research grant program this year with a budget of \$1.2 million. Funding is made available to support basic bench research in Parkinson's disease and related neurodegenerative disorders. The award for a single grant will not exceed \$40,000. None of the monies are to be utilized for administrative overhead or travel expenses. The application deadline is February 10, 2003. Funding will be effective as of July 1, 2003, and conclude June 30, 2004. It is required that proposed studies specifically focus on mechanisms involved in the disease process and that they have the potential of finding the cause and prevention of Parkinson's disease. Scientists entering the field of Parkinson research are encouraged to apply. For information and application, contact:

**Paula Conley**  
Programs and Grants Director  
1501 N.W. Ninth Avenue  
Miami, FL 33136

## COURSE

**SHORT COURSE ON TIME-RESOLVED FLUORESCENCE SPECTROSCOPY.** The Center for Fluorescence Spectroscopy, University of Maryland School of Medicine, is offering a Short Course on Principles and Applications of Time-Resolved Fluorescence Spectroscopy in Baltimore, March 24-28, 2003. The course will cover basic and advanced topics in fluorometry including time and frequency domain measurements and Forster resonance energy transfer. Advanced topics include chemical sensing, imaging, fiber optics, infrared fluorometry, two- and multiphoton excitation, instrumentation, confocal and multiphoton microscopy, protein fluorescence, DNA technology, high-throughput screening, metal-ligand probes, correlation spectroscopy, lanthanides, and immunoassays. Textbook, course materials, lunches, and refreshments will be provided. For further information, a schedule, and fees, please contact: **Ms. Mary Rosenfeld or Professor J.R. Lakowicz, CFS, Department of Biochemistry and Molecular Biology, 725 West Lombard Street, Baltimore, MD 21201. Telephone: 410-706-8409; FAX: 410-706-8408; e-mail: [cfs@csf.umbi.umd.edu](mailto:cfs@csf.umbi.umd.edu); website: <http://cfs.umbi.umd.edu>.**

## GRANTS

### REQUEST FOR APPLICATIONS Dysautonomia Foundation Inc.

Familial Dysautonomia (FD) is an autosomal recessive disorder characterized by altered intrauterine development of the autonomic and sensory nervous system. The disorder is progressive and neuronal survival also may be compromised.

Patients with FD have trouble swallowing liquids, do not produce overflow tears, and become hypotensive when they stand. They are relatively insensitive to pain and experience dramatic fluctuations in blood pressure and body temperature. They suffer episodic autonomic crises of vomiting, retching, and extremely high blood pressure (*J. Ped.* 110:946-948, 1987).

Mutations in the IKAP gene were recently shown to cause FD. In over 95% of patients, a single intronic base substitution that affects the splicing of the IKAP transcript was identified [*Am. J. Hum. Genet.* 68:598-605 and 753-758, 2001]. This splicing alteration is tissue (i.e., neuron) specific. A point mutation in the coding region has also been identified. The IKAP protein has recently been shown to be a component of the transcription Elongator complex [*PNAS* 99:3047, 2002] and also to interact with jun kinase (JNK) [*J. Biol. Chem.* 277:3918, 2002]. The molecular/cellular mechanisms causing FD are not understood.

**The Dysautonomia Foundation is accepting grant applications for studies of the cellular and molecular biology, biochemistry, and clinical pathology of FD. Studies leading to novel therapeutic strategies for FD are also encouraged.**

#### Application Procedure

The Dysautonomia Foundation will make grants for a two-year period for up to \$100,000/year. These should typically be pilot studies, the completion of which will allow investigators to apply successfully for NIH grants. Support of a postdoctoral fellow will also be considered.

**Grants will be renewable depending on productivity. Funded researchers will be expected to freely share reagents developed from these research grants with other Dysautonomia Foundation funded investigators and to attend an annual meeting to present and discuss their results.**

Please submit a five page proposal (not including figures or references) detailing the proposed project along with CVs of the Principal and Co-Investigators (with current Other Support) to the:

**Dysautonomia Foundation Inc.**  
633 Third Avenue, 12th Floor, New York, NY 10017-6706  
Fax: (212) 682-7625  
[www.familialdysautonomia.org](http://www.familialdysautonomia.org)  
Email: [dys212@aol.com](mailto:dys212@aol.com) (preferred method)

Further information on FD is on the web site. The application must be submitted by either post, fax or email (preferred) on or before **January 15, 2003**. The awards will be announced on **February 28, 2003**. For additional information, please contact the **Dysautonomia Foundation** at (tel): 212-949-6644, (fax): 212-682-7625 or (email): [dys212@aol.com](mailto:dys212@aol.com).

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## UNDERGRADUATE SCIENCE RESEARCH SCHOLARSHIP AWARDS

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

### An applicant must:

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

## GRADUATE SCIENCE RESEARCH DISSERTATION FELLOWSHIPS

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

### An applicant must:

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

## POSTDOCTORAL SCIENCE RESEARCH FELLOWSHIPS

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

### An applicant must:

- Hold a Ph.D. or equivalent degree in a biomedical life or physical science
- Be appointed as a postdoctoral fellow by the end of the year 2003 at an academic or non-academic research institution (private industrial laboratories are excluded)

**Applicants must be African American (Black, non-Hispanic), U.S. citizens or permanent residents, and attend an institution in the U.S.A. Applications must be postmarked by December 16, 2002**  
For application forms and more information, please contact your department chairperson or Jerry L. Bryant, Ph.D., at the **United Negro College Fund**, 8260 Willow Oaks Corporate Drive, P.O. Box 10444, Fairfax, VA 22031-4511, by fax (703) 205-3574, by e-mail at [uncfmerck@uncf.org](mailto:uncfmerck@uncf.org), or visit our website at [www.uncf.org/merck/](http://www.uncf.org/merck/)

## PRIZES

### THE 2003 LOUISA GROSS HORWITZ PRIZE

The Louisa Gross Horwitz Prize was established under the will of the late S. Gross Horwitz through a bequest to Columbia University and is named to honor the donor's mother. Louisa Gross Horwitz was the daughter of Dr. Samuel David Gross (1805-1889), a prominent surgeon of Philadelphia and author of the outstanding *Systems of Surgery*, who served as president of the American Medical Association.

Each year since its inception in 1967, the Louisa Gross Horwitz Prize has been awarded by Columbia University for outstanding basic research in the fields of Biology or Biochemistry. The purpose of this award is to honor a scientific investigator, or group of investigators, whose contributions to knowledge in either of these fields is deemed worthy of special recognition.

The prize consists of an honorarium and a citation, which are awarded at a special presentation event. Unless otherwise recommended by the Prize Committee, the prize is awarded annually. The 2002 awardees were James E. Rothman, Ph.D., Vice Chairman, Sloan-Kettering Institute and Paul A. Marks Chair, and Chairman, Cellular Biochemistry and Biophysics Program, Sloan-Kettering Institute; Randy Wayne Schekman, Ph.D. Professor, Department of Molecular and Cell Biology and Howard Hughes Investigator, University of California Berkeley.



### QUALIFICATIONS FOR THE AWARD

The Prize Committee recognizes no geographical limitations. The prize may be awarded to an individual or a group. When the prize is awarded to a group, the honorarium will be divided among the recipients, but each member will receive a citation. Preference will be given to work done in the recent past.

Nominations for prospective recipients should be given to the chairman of the Louisa Gross Horwitz Prize Committee, Dr. Marian Carlson. Nomination letters should include:

1. A summary, preferably less than 500 words, of the research on which this nomination is based.
2. A summary, preferably less than 500 words, of the significance of this research in the fields of biology or biochemistry.
3. A brief biographical sketch of the nominee, including positions held and awards received by the nominee.
4. A listing of up to ten of the nominee's most significant publications relating to the research noted under item 1.
5. A copy of the nominee's curriculum vitae.

**An original and twelve (12) copies** of each nomination should be sent to: Dr. Marian Carlson, Chairman of the Louisa Gross Horwitz Prize Committee, Office of the Vice President for Health Sciences and Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, Room 2-401, New York, NY 10032.

**Deadline for the receipt of nominations is January 17, 2003.**

## GRANTS

# Creating the future of biotech—Together

**Invitrogen's Research Tools Development Grants Program** provides funding for investigators developing innovative tools for use in life science research, including investigators working in academics, not-for-profit institutions, and for-profit companies. Total funding is US\$5 million per year, with annual individual awards of up to US\$100,000. Grants are provided quarterly; each quarter focuses on a specific field of interest.

Fourth quarter 2002 funding is for the area of **amplification, labeling and quantitation** of nucleic acids—including proposals for the *in vitro* or *in vivo* applications of detection, expression, hybridization, microarrays, and screening. Deadline for full Grant Proposals is December 1. A preproposal is required prior to submitting a Grant Proposal. **For more information, visit [www.invitrogen.com](http://www.invitrogen.com), e-mail [grants@invitrogen.com](mailto:grants@invitrogen.com), or call 800 955 6288, ext. 66140.**

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## GRADUATE PROGRAM

### FALL 2003 Ph.D. PROGRAMS



THE  
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- Chemistry Program
- Macromolecular & Cellular Structure & Chemistry Program

The Scripps Research Institute's Kellogg School of Science and Technology will admit highly qualified students in the Fall of 2003 to two Ph.D. Programs: one integrating cell and molecular biology with structure and chemistry, and the other in chemistry.

Since its establishment in 1961, The Scripps Research Institute has gained international recognition for its basic research in chemistry, structural, molecular and cell biology. Graduate studies at TSRI provide an exceptional training opportunity in a uniquely multidisciplinary environment with an emphasis on individualized training for each student.

Candidates must have a bachelor's degree and a strong background in biology, biophysics, and/or chemistry. Qualified applicants will be invited to visit the Institute. Financial support will be provided to all students accepted into the programs.

Individuals interested in applying to either program should visit the web site: <http://www.scripps.edu> or contact:

**Kellogg School of Science and Technology  
The Scripps Research Institute  
10550 North Torrey Pines Rd. (TPC 19)  
La Jolla, CA 92037  
Tel: (858) 784-8469**

The application deadline is January 1, 2003. TSRI's graduate programs are accredited by the Western Association of Schools and Colleges. TSRI is an equal opportunity institution.

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## FELLOWSHIPS

### FELLOWSHIPS FOR POSTDOCTORAL SCHOLARS AT WOODS HOLE OCEANOGRAPHIC INSTITUTION

Fellowships are available to new or recent doctoral graduates in diverse areas of research. Interested persons are encouraged to submit applications no later than January 15, 2003. Applications will be accepted from doctoral recipients with research interests associated with the following:

**Departments** - Applicants who wish to conduct research on topics of general interest to one or more of the departments are encouraged to apply. Six to Eight awards are anticipated. The Departments are:

- Applied Ocean Physics & Engineering
- Biology
- Marine Chemistry & Geochemistry
- Geology & Geophysics
- Physical Oceanography

**Institutes** - With the aim of fostering interdisciplinary research addressing critical issues, WHOI has established four institutes. A fellowship is available to support research associated with each of the Institutes. The Institutes are:

- Ocean Life Institute
- Ocean and Climate Change Institute
- Deep Ocean Exploration Institute
- Coastal Ocean Institute

The NOAA-WHOI Cooperative Institute for Climate & Ocean Research (CICOR) will also award a Fellowship in one of three theme areas: Coastal Processes; Climate; Marine Ecosystems.

**National Ocean Sciences Accelerator Mass Spectrometry Facility (NOSAMS)** funded by the National Science Foundation, will award a fellowship. Research themes are studies of radiocarbon in oceanic systems and developments in accelerator mass spectrometry and related techniques.

Recipients of awards are selected competitively, with primary emphasis placed on research promise. Fellowships are awarded for 18-month appointments with a stipend of \$47,000 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 Scientific and Senior Technical Staff. Communication with potential WHOI advisors prior to submitting an application is encouraged. Completed applications must be received by January 15, 2003 for the 2003/2004 appointments. Awards will be announced in March.

Further information about the Fellowships and application forms as well as links to the Individual Departments, Institutes and Centers and their research themes may be obtained through the Academic Programs section of the WHOI web pages at: <http://www.whoi.edu/education>, or by writing directly to:

Dean

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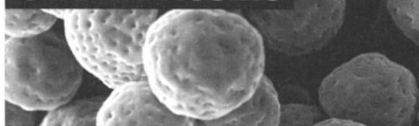
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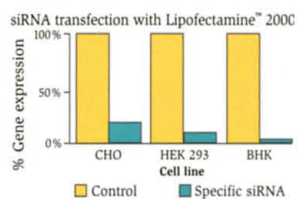
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