POSITIONS OPEN

ASSISTANT PROFESSOR
MOLeCULAR BIOLOGY

The Department of Biology at Virginia Polytechnic Institute and State University invites applications for a tenure-track faculty position at the rank of assistant professor to begin August 1992. Candidates should have postdoctoral experience in a contemporary area of molecular/cellular biology and a strong publication record. A Ph.D. degree is required, and the candidate will be expected to build on existing strengths within the 43-member Biology Department. Responsibilities include graduate and undergraduate teaching in molecular/cellular biology and developing a competitive research program in the individual's specific area of interest. A letter of application, curriculum vitae, statement of professional goals, and names of three references should be sent to: James R. Daniel, Food Chemistry Search Committee, Department of Foods and Nutrition, Purdue University, West Lafayette, IN 47907. Applications will be accepted until April 1992 as Equal Opportunity/Affirmative Action Employer.

Purdue University, Department of Foods and Nutrition, TENURE-TRACK ASSISTANT PROFESSOR. The Department of Foods and Nutrition anticipates filing a tenure-track, 12-month position (research/teaching) in food chemistry. Applicants must have a Ph.D. in food chemistry and postdoctoral/research experience is desirable. Candidates should submit a résumé, bibliography, and three letters of reference to: Dr. J. K. Nathan, Biology Department, C. W. Post Campus, LIU, Brookville, NY 11584. Closing date: 31 January 1992. Equal Opportunity Employer.


CELL BIOLOGIST. The College of Charleston, Department of Biology, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level beginning in August 1992. Candidates must possess the Ph.D. degree, a strong commitment to teaching, and an active, ongoing research program, which has the potential for undergraduate involvement. Teaching responsibilities include cell biology and general biology. The College of Charleston is a liberal arts institution whose primary aim is teaching excellence. In addition to its undergraduate programs, the department offers a graduate degree in marine biology. Applicants should submit curriculum vitae, a statement of teaching philosophy and research interests, reprints of recent publications and three letters of reference by 29 January 1992 to: Chair, Department of Biology, College of Charleston, Charleston, SC 29424. The College of Charleston is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, MICROBIAL GENETICS. An academic year, tenure-track position is available for fall 1992 to teach microbial genetics and molecular biology, participate in an introductory microbiology or biology course, and direct undergraduate and master's level research. A Ph.D. and a strong commitment to undergraduate teaching are required. A competitive salary is offered, and application materials, including supporting letters and undergraduate transcripts and three letters of recommendation, all received by 15 February 1992, to: James Parry, Chair, Department of Biology and Microbiology, University of Wisconsin—La Crosse, La Crosse, WI 54601. An Affirmative Action, Equal Opportunity Employer.

MOLECULAR BIOLOGY

LAFAYETTE COLLEGE

Tenure-track ASSISTANT PROFESSOR position in molecular biology to begin 26 August 1992. Ph.D. required. Candidates with postdoctoral experience and evidence of research activity in gene organization and expression are preferred. We seek an individual committed to excellence in teaching and research within the context of a selective, undergraduate liberal arts college. Teaching duties will include two courses in molecular biology, a senior seminar, and the mentoring of undergraduate research projects. Competitive salary and start-up funds. Applications including curriculum vitae, graduate transcript and three letters of reference should be sent by 15 January 1992 to: Dr. Robert S. Chase, Chair, Department of Biology, Lafayette College, Easton, PA 18042–1778. Lafayette College is committed to Equal Opportunity through Affirmative Action.
Senior Staff And Postdoctoral Opportunities.

Excellent opportunities for conducting research are now available with leading scientists at the National Institutes of Health.

**Senior Staff Fellowship (Assistant Professor Equivalent)**

**Neuroscience**  
M.L. Mayer, PhD  
Current research interests include synaptic transmission in CNS tissue, the mechanism of action of neurotransmitters and second messengers, and molecular analysis of receptors and ion channels. Applicants for the Senior Staff Fellowship (Assistant Professor Equivalent) should be experts in electrophysiological, optical, or molecular biological techniques. Experience with patch clamp experiments on brain slice preparations, or cloning and mutagenesis of ion channels and receptors, would be welcome. Funds are available for equipment, postdoctoral fellows, and administrative/technical support. Applicants should have at least three years postdoctoral experience. Appointment may be made at the tenured or tenure track level. Laboratory of Cellular and Molecular Neurophysiology (OE-2), NICHD, Building 36, Room 2A21.

**Postdoctoral Fellowships**

**Cell Physiology**  
Maurice Burg, MD  
The molecular mechanisms involved in osmotic regulation and regulation of epithelial transport are currently being studied. Applicants should have experience in biochemistry, molecular biology or cell physiology and must have less than three years of postdoctoral training. Laboratory of Kidney and Electrolyte Metabolism (OE-2), NHLBI, Building 10, Room 6N307.

**Molecular Neurovirology**  
Stephen E. Straus, MD  
Applicants are sought to conduct studies of the regulation and expression of latent herpesvirus genes in neural tissues. Doctoral level experience in molecular and cellular neurobiology or molecular virology and related disciplines is essential. Full support is committed initially for two years. Laboratory of Clinical Investigation (OE-2), NIAID, Building 10, Room 11N228.

**Molecular Virology/Immunology**  
Robert M. Chanock, MD  
The molecular virology and pathology of simian immunodeficiency virus (SIV) infection of macaques is being studied in order to use the SIV infection of macaques as a model for human AIDS. The laboratory is also seeking to understand the viral determinants of immunodeficiency and the immunologic correlates of protection from infection or disease. Previous experience with molecular techniques in microbiology, virology or pathobiology is preferred. The applicant for this position must be a US citizen or permanent resident. Laboratory of Infectious Diseases (OE-2), NIAID, Building 7, Room 100.

**Recombinant Toxins and Molecular Therapeutics**  
Ira Pastan, MD  
New recombinant toxins are being developed for the treatment of cancer and AIDS. Current studies focus on designing new recombinant toxins and determining how these toxic proteins act to kill their target cells. Applicants should have some experience in either molecular biology or protein chemistry. Laboratory of Molecular Biology (OE-2), NCI, Building 37, Room 4E16.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may contact the NIH EDNET Bulletin Board, the POSTDOC Conference at 301-492-2221. Use initials FSE, account AJL1. Those interested in learning about other postdoctoral opportunities may request a copy of the "Postdoctoral Research Fellowship Opportunities Catalog" by contacting the Office of Education, Building 10, Room 1C129, Phone: 301-496-2427.

If you hold a PhD, MD, or equivalent degree and would like to be considered for one of these positions, please send a cover letter, Curriculum Vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.

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Engineering a Small World:
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This 42-page special section, reprinted from the 29 November issue of Science, is your entry to the expanding world of small-scale engineering. It’s a field that spans microelectronics, materials science, chemistry, molecular biology, and microscopy. In this special section, ten illustrated articles by research leaders and by science journalists present the full scope of this small world.

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WAYNE STATE UNIVERSITY
CHAIRPERSON
DEPARTMENT OF NUTRITION AND
FOOD SCIENCE
WAYNE STATE UNIVERSITY
The Department of Nutrition and Food Science, in the Wayne State University College of Liberal Arts, is seeking a Chairperson to lead its rapidly expanding undergraduate and graduate programs in Nutrition, Food Science, and Dietetics. Wayne State University, located in the Cultural Center of Detroit, Michigan, is an urban, comprehensive, research university serving 30,000 students. The Department of Nutrition and Food Science has 8 faculty and enrolls 100 undergraduate and 65 graduate (Ph.D. and Masters) majors. The Department, which moved into completely renovated research and teaching facilities in October, 1991, has ties to the WSU School of Medicine and the Institute of Chemical Toxicology as well as to other departments in the College of Liberal Arts.

Qualifications for the Chairperson’s position include: an earned doctorate, administrative and teaching experience, and an established research program. Applicants should send a letter of application, curriculum vitae, and the names of at least three references to: Dr. Richard Linveillet, Chair Nutrition and Food Science Selection Advisory Committee
123 Chemistry Way State University
Detroit, Michigan 48202

Salary and rank are negotiable. The position is available immediately. For best consideration, please respond before January 30, 1992.

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

COBBLE HOUSE
SEASON OF BIOCHEMISTRY
MOLECULAR AND CELL BIOLOGY

Applications are invited for a tenure-track ASSISTANT PROFESSORSHIP in the area of physical biochemistry from individuals interested in applying physical methods to contemporary problems in enzymology, protein/nucleic acid recognition, or cell biology. Candidates will be selected based on accomplishments, strong motivation for creative research, and commitment to teaching. Applicants should send curriculum vitae and brief description of accomplishments and future research plans, and have three recommendation letters sent independently, by 15 February 1992, to: Professor G. Hess, Search Committee, Biochemistry, Molecular and Cell Biology, Biotechnology Building, Cornell University, Ithaca, NY 14853. Applications from women and minority group members are encouraged. Cornell University is an Affirmative Action/Equal Opportunity Employer.

ANATOMY/PHYSIOLOGY
THE OHIO STATE UNIVERSITY AT MANSFIELD

The Department of Zoology is seeking a candidate for a tenure-track ASSISTANT PROFESSORSHIP on the Mansfield Campus of The Ohio State University (OSU). Teaching duties include undergraduate courses in anatomy and physiology as well as introductory biology for majors and nonmajors. Research specialty is open, but preference will be given to applicants whose research program can be carried out in a regional campus setting with limited laboratory facilities. Applicants should have a Ph.D., a strong commitment to undergraduate teaching and an active research program. The appointment will begin Autumn 1992. The successful candidate will join a Mansfield Campus biology faculty composed of a botanist, microbiologist, and zoologist, and will be a nonstenplanated member of the OSU Department of Zoology on the Columbus Campus. The Mansfield Campus of OSU enrolls 1500 students and offers the first two years of The Ohio State University's curriculum as well as baccalaureate and associate degrees in education. Graduate faculty members may direct graduate students through the department on the Columbus Campus. Send curriculum vitae, three letters of reference, and a brief description of teaching and research goals by 31 January 1992 to: Dr. Tim M. Berra, Chair, Zoology Search Committee, The Ohio State University at Mansfield, Mansfield, OH 44906. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are strongly encouraged to apply.

POSITIONS OPEN
ASSISTANT UNIT LEADER
ASSISTANT PROFESSOR

The Kansas Cooperative Fish and Wildlife Research Unit is anticipating filling the position of Assistant Unit Leader/Wildlife. Applicants must have a Ph.D. degree with expertise in terrestrial ecology. The position requires development of a strong research program addressing both basic and applied questions, advisement of graduate students and the teaching of a graduate course in the field of their research expertise. Contact: Timothy Modde, Cooperative Fish and Wildlife Research Unit, Division of Biology, Leasure Hall, Kansas State University, Manhattan, KS 66506-3501; telephone: 913-532-6070.

MICROBIAL ECOLOGIST: Applications are invited for the first of three tenure-track ASSISTANT PROFESSORSHIPS to be filled in the area of aquatic ecosystems. We are particularly interested in individuals conducting field-based biochemical studies of benthic, heterotrophic ecosystems, but all applicants will be considered. Current related faculty research includes plankton ecology, physiology, aquaculture, geochemistry, and sedimentation. A Ph.D. and demonstrated interest in multidisciplinary research required. Experience in statistics desirable. Teaching at the undergraduate and graduate levels (Ph.D. and M.S.) and levels and an active research program expected. Send curriculum vitae, statement of research and teaching interests, selected (published) papers, and three letters of reference to: Craig Williamson, Department of Earth and Environmental Sciences #31, Lehigh University, Bethlehem, PA 18015. Application must be postmarked by 1 March 1992. Lehigh is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Cornell University

POSITIONS OPEN
AVIAN BIOLOGIST, ASSISTANT PROFESSOR OF avian sciences in the Department of Avian Science and Assistant Biologist in the Experiment Station, University of California, Davis. Eleven-month, 25% teaching and 75% research position. The successful candidate will be expected to establish an independent, competitive research program in the area of avian physiology, ecology, and behavior. Teach an undergraduate course in avian physiology and a graduate level course in his/her area of research specialization, and advise undergraduates, M.S. and Ph.D. students. Candidates should have a Ph.D. in physiology, immunology genetics or a related area, a solid background in areas related to research and teaching and demonstrated research productivity and/or potential. Each applicant should submit curriculum vitae and transcripts (official transcripts are required if Ph.D. was awarded in the past 5 years). Send the above and a detailed description of his/her research accomplishments and future plans, and three to five names and addresses of individuals familiar with the applicant’s teaching and research abilities. Application should be submitted to: Kirk Klaas, Department of Avian Sciences, University of California, Davis, CA 95616-8532. Application deadline is 1 March 1992. The University of California is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY: DEVELOPMENTAL/ANATOMY
Natural Science (Biology) of Indiana University Southeast (IUS) invites applications from qualified Ph.D.s for a tenure-track ASSISTANT PROFESSORSHIP beginning fall 1992. The candidate will teach a core course in developmental biology prenursing human anatomy sections and possible course(s) in specialty. The applicant will also be expected to maintain an independent research program with extramural support and demonstrate a potential for excellence in teaching at the undergraduate level. Send statement of interest, curriculum vitae, transcripts, and three letters of recommendation by 18 February 1992 to: Personnel Division. Attention: Dr. Carl M. Christenson, Chair of the Search and Screening Committee Position, Indiana University Southeast, 4201 Grante Road, New Albany, IN 47150.

IUS is an Affirmative Action/Equal Opportunity Employer.

CELL PHYSIOLOGIST, ASSISTANT PROFESSOR. The Union College Biology Department invites applications for a tenure-track position in cell physiology from individuals trained in the cellular physiology of any system, including prokaryotes or plants. Teaching responsibilities will involve participation in lower-division courses in cell biology and an upper-level course in the individual’s specialty. Candidates must have a Ph.D.; postdoctoral experience is highly desirable. Experience in ability to excellence in both teaching and research is essential. A major grant from the Howard Hughes Medical Institute will provide the successful candidate, during the first year, with funds for equipment supplies, a reduced teaching load, and a summer stipend. Union College is a small, selective undergraduate institution founded in 1795, with a history of strength in science and engineering. The Biology Department is diverse and has 13 full-time faculty. Send curriculum vitae, a brief statement of research interests, and the names of three references by 31 January 1992 to: Dr. George Butterstein, Chair, Department of Biological Sciences, Union College, Schenectady, NY 12308. Union College is an Equal Opportunity/Affirmative Action Employer.

IMMUNOLOGIST/CELL BIOLOGIST. Furman University has a tenure-track, ASSISTANT PROFESSOR position to begin in fall 1992. The successful candidate will develop an undergraduate course in immunology and have the opportunity to set up a cell culture facility. Other duties will include introductory biology courses and upper level undergraduate courses matching one’s interests and training. Candidates must have the Ph.D., a strong interest and ability in teaching and mentoring undergraduates in an active research program. Furman is a selective liberal arts school of 2500 students with a vigorous program in the sciences, with scientific writing, original or photostatic copies of transcripts, a statement describing areas of teaching competency and research interests, and three letters of recommendation to: Dr. David Lewis P. Stratton, Department of Biology, Furman University, Greenville, SC, 29613. Application deadline is 1 February 1992. An Equal Opportunity/Affirmative Action Employer.

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POSITIONS OPEN

ASSISTANT PROFESSORS OF BIOLOGY

The Biology Department at the State University of New York (SUNY) Geneseo seeks applicants for two or three tenure-track assistant professor positions in environmental, invertebrate, and evolutionary biology. The third position will be filled contingent upon administrative approval. One individual must be able to teach methods in secondary science education and supervise student teaching in secondary science education one semester per year. Successful candidates will be expected to teach undergraduate courses (e.g., comparative biology, ecology, or invertebrate biology) as well as a course in their area of specialty. They are expected to develop a research program involving undergraduate and graduate students, advise students, and participate in general departmental administration. The department has over 500 majors in biology, biochemistry, and medical technology.

Successful candidates will complement 11 faculty members with specialties in zoology, behavioral ecology, physiological plant ecology, developmental biology, cell infrastructure, animal physiology, algal genetics, molecular biology, immunology, plant biology, and microbial ecology.

All applicants must have a Ph.D. degree in biology or related field and postdoctoral experience. One successful candidate must have direct experience in secondary science education. Applications including curriculum vitae, publications, graduate transcripts, and three letters of recommendation should be sent by 17 January 1992 to: Search Committee, Biology Department, SUNY, Geneseo, NY 14454. SUNY is an Affirmative Action/Equal Opportunity Employer. minorities and women are strongly urged to apply.

ASSISTANT PROFESSOR in (1) microbial ecology/immunology and (2) two in comparative vertebrate anatomy/comparative vertebrate physiology. Tenure-track positions available 1 August 1992. Ph.D. required, working knowledge of Spanish (or willingness to learn) highly desirable. Applicants will teach, coordinate courses and conduct research in their areas, periodically teach in basic courses, and direct graduate student research. Applicants should send (1) curriculum vitae, (2) reprints or copies of their significant publications, and (3) three letters of reference, and (if recent Ph.D.) complete graduate transcripts to: Dr. Mildred Chaparro, Director, Biology Department, University of Puerto Rico Mayaguez, Mayaguez, PR 00681. The University of Puerto Rico is an Equal Opportunity Employer.

EVOLUTIONARY ECOLOGIST ASSISTANT PROFESSOR UNIVERSITY OF VERMONT

Applications are invited for a tenure-track position in evolutionary ecology, broadly defined. Applicants are expected to hold the Ph.D. degree and have postdoctoral research experience. Appropriate research specialties include, but are not limited to, plant-animal interactions, biodiversity issues, freshwater ecology, tropical ecology, behavioral ecology, or population ecology of animals or plants. Position requires teaching undergraduate courses, mentoring graduate students, and conducting independent, extramurally funded research in some area of evolutionary ecology. Applicants should forward current curriculum vitae, a brief description of their research and teaching interests, and two to three reprints, and should arrange to have three letters of reference sent to: Dr. Jon J. Schall, Chair, Evolutionary Ecology Search Committee, Department of Zoology, University of Vermont, Burlington, VT 05405-0086. Review of applicants will begin on 15 January 1992. We especially encourage women and minority candidates to apply. The University of Vermont is an Affirmative Action/Equal Opportunity Employer.

MICROBIOLOGY/MOLECULAR BIOLOGY

The Department of Biological Sciences, Youngstown State University (YSU) is seeking two individuals for tenure-track positions at the ASSISTANT PROFESSOR level in microbiology and molecular biology to begin fall 1992. A Ph.D. is required and postdoctoral experience is desirable. Please submit curriculum vitae, description of research interests, recent reprints, and three letters of reference to: Dr. Anthony E. Sobota, Chairman, Department of Biological Sciences, Youngstown State University, 410 Wick Avenue, Youngstown, OH 44555. YSU is an Affirmative Action/Equal Opportunity Employer.

13 DECEMBER 1991

DIRECTOR OF CELLULAR SCIENCES

This is a senior and highly influential position for an established researcher and scientific leader. This individual will strengthen and enrich the scientific mix of our research management team and provide leadership and strategic research direction to our therapeutic area of metabolic diseases, particularly for the important diabetes programs.

Selected candidate will direct existing world-class research groups (in diabetes, tumor cell biology, signal transduction, ion channel biology, gene control, and macrophage and bone cell biology) and play a key role in the expansion and diversification of each of these departments and our new biological research division. Individual must be an established scientific leader in one of the growth areas of diabetes research.

Please refer to Job # 9129Bl48-SC on all resumes.

SECTION HEAD Signal Transduction & Cell Cycle Regulation

We are accepting applications for the following position: Signal Transduction & Cell Cycle Regulation. This position will provide opportunities for leadership and innovation with the support of an established team of scientists with relevant experience. We will provide you with the interdisciplinary support required to turn ideas into action and action into successful drug discovery and career advancement.

The successful candidate will have a Ph.D. or M.D. with a minimum of 5 years relevant postdoctoral experience and 2 years leadership of a research team. Significance research contribution and experience in the regulation of cyclins and cell-cycle dependent kinases is required.

Please refer to Job # 9125Bl16-SC on all resumes.

SECTION HEAD Control of Gene Expression

We will expand our Department of Molecular Biology by the creation of a new section dedicated to understanding the control of gene expression at the DNA level. Although Glaxo has several research teams committed to other aspects of gene control, this section head will lead a new team of specialists in transcriptional control.

The successful candidate will have a Ph.D. or M.D. with a minimum of 5 years relevant postdoctoral experience and 2 years leadership of a research team. This is a challenging position for an individual with a record of scientific achievement evidenced by publications of consistent high quality.

Please refer to Job # 9136Bl10-SC on all resumes.

Our Research Triangle Park, NC location (near Raleigh, Durham and Chapel Hill) offers a lot more for people who seek a well-rounded lifestyle. This world-famous scientific, industrial and academic community offers access to respected universities, beautiful residential areas, excellent health care and abundant cultural and recreational facilities. Join Glaxo and enjoy excellent salaries, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction.

Send your resume, INDICATING THE CORRESPONDING JOB # and salary history, to: Human Resources Department, Glaxo Inc., P.O. Box 15398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

Glaxo Inc.
POSITIONS OPEN

TENURE-TRACK ASSISTANT PROFESSORS

The Department of Bioengineering, University of Utah, has openings for two tenure-track Ph.D. assistant professors in the areas of tissue and molecular/tissue engineering and biomedical modeling. Applicants should have strong physical science or engineering background with experience and interest in cell and tissue culture, biomechanics, cell, tissue, and organ assembly and patterning, or neuro-electric phenomena. Complete curriculum vitae, names of three references, and brief statements of research and teaching interests will be sent to: Dr. R. Normann, Acting Chair, Department of Bioengineering, 2490 MEB, University of Utah, Salt Lake City, UT 84112. Telephone: 801-581-8176; FAX: 801-586-5693, by 15 February 1992, or until the positions are filled. The University of Utah is an Equal Opportunity/Affirmative Action Employer, and women and minorities are encouraged to apply.

SAINT ANSELM COLLEGE
ASSISTANT PROFESSOR
DEPARTMENT OF BIOLOGY

Applications are invited for a full-time faculty position in the area of natural sciences, with a specialty in biology. The 12-credit semester teaching load will initially include an evolution course with lab, a biostatistics course, and a human anatomy and physiology course with lab, as well as participation in non-biology major biology labs as needed. Responsibilities include maintaining an active research program and supervising senior students in directing undergraduate research. Ph.D. level is required; A.B.D. will be considered. Application materials should be sent to: Dr. K. Pajak, Saint Anselm College, 2000 Putnam Drive, Manchester, NH 03102–1310. Application deadline: 24 January 1992. Equal Opportunity Employer.

MIAMI UNIVERSITY

The Department of Zoology seeks candidates for two tenure-track, ASSISTANT PROFESSOR positions effective August 1992. We are seeking: (1) a MOLECULAR BIOLoGIST for the Oxford campus whose training is in experimental molecular biology, enzymology, or biotechnology; and (2) a PHYSIOLOGIST for the Middletown campus who will teach a two-semester course in human anatomy and physiology, advise junior and senior students, and develop a small freshman biology course. Further information about these positions is available upon request. Application review will begin in January 1992. Send curriculum vitae, transcripts of all academic work, a description of research and teaching interests, and three letters of reference to: R. G. Sherman, Department of Zoology, Miami University, Oxford, OH 45065.

MINORITY and women candidates are strongly encouraged to apply. Miami University is making every effort to create a diverse, heterogeneous faculty and staff.

The University of Alaska Fairbanks invites expressions of interest in the position of ASSISTANT UNIT LEADER, Marine Mammal Biology, to become effective upon the retirement of Dr. Russell A. Cude, Alaska Cooperative Fish and Wildlife Research Unit within the College of Natural Sciences and the Institute of Arctic Biology. The position is that of a research biologist in the U.S. Fish and Wildlife Service with faculty appointments as ASSISTANT or ASSOCIATE PROFESSOR. The incumbent will be expected to plan, conduct, and direct research related to marine mammals in the Arctic. The individual will manage and support on aerial or subarctic wildlife; advise graduate students; teach graduate level courses in the area; and develop a related research program.

For more information on the position or application procedures, contact either Dr. Reid Goforth (Telephone: 703-358-1709; FAX: 703-388-2289) or Dr. David Klein (Telephone: 907-474-7673; FAX: 907-474-9697).

The U.S. Fish and Wildlife Service and the University of Alaska Fairbanks are Affirmative Action/Equal Opportunity Employers. Interest by women and minority candidates in this position is encouraged.

POSITIONS OPEN

ASSISTANT PROFESSOR
PHYSIOLOGY

The Department of Physiology, Uniformed Services School of Medicine, invites applications for a tenure-track position beginning 1 July 1992. Applicants must hold a doctoral degree and have completed at least 3 years of postdoctoral training. Applicants will be responsible for research and teaching of medical and graduate students. A competitive starting salary commensurate with background and experience. The environment at USUHS is well-equipped for research endeavors, with much of the resources centralized to support the scientific investigator. Curriculum vitae with letters of interest should be sent to: J. Harbin, Chair, Committee, Department of Physiology, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814-4799.

VEGETABLE BIOLoGIST

The College of William & Mary invites applicants for a tenure-track position in the Department of Biology. We expect to make the appointment at the ASSISTANT PROFESSOR level, although we will consider a higher rank in exceptional circumstances. Applicants should have a Ph.D. and an active research program. Postdoctoral experience is preferred. Teaching responsibilities will include an undergraduate course in vertebrate biology, emphasizing form, function, evolution and phylogeny, a graduate seminar, and a graduate seminar course. The research area is open but should include some organismal biology. The College of William & Mary has an enrollment of 5500 undergraduate and 1800 graduate students in the arts and sciences and four schools. The department has a faculty of 24 and it interacts with an additional 70 faculty members in the School of Marine Science. The college will begin on 1 February 1992, and the search will remain open until the position is filled. Interested applicants should submit curriculum vitae, a statement of research and teaching interests, and three letters of recommendation by 15 January 1992 to: Dr. Stephen J. Wemore, Chairman, Department of Otolaryngology, West Virginia University School of Medicine, 2222 Health Sciences Drive, Morgantown, WV 26506. West Virginia University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT OR ASSOCIATE PROFESSOR

NEUROBIOLOGIST

The Department of Otolaryngology at West Virginia University invites applications for a tenure-track position available summer 1992. We are seeking an individual whose primary interest is in the neurobiology of any of the auditory or vestibular systems or chemical sensors to join a growing research group and to establish a vigorous and independent basic research program. A joint appointment in the Department of Anatomy is available. Please send curriculum vitae, reprints of publications, a brief statement of future research plans and three letters of recommendation by 15 January 1992 to: Dr. Stephen J. Wemore, Chairman, Department of Otolaryngology, West Virginia University School of Medicine, 2222 Health Sciences Drive, Morgantown, WV 26506. West Virginia University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION

The Department of Microbiology at the University of New Mexico invites applications for a tenure-track ASSISTANT PROFESSOR with research interests in prokaryotic molecular biology. Strong applicants at the assistant professor level are encouraged to apply and will be given serious consideration. Candidates must have M.D. or Ph.D. postdoctoral experience and substantial accomplishment as an investigator for basic research. Preference will be given to those candidates whose research interests include the molecular mechanisms involved in bacterial pathogenesis. Send curriculum vitae, and three letters of recommendation to: Dr. J. T. Porter, Department of Microbiology, SUNY at Stony Brook, Stony Brook, NY 11794-5222. SUNY at Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer. AK110.

FACULTY POSITION

NEUROSCIENCE

The Department of Biology at the University of Oregon invites applications for a tenure-track position at the ASSISTANT or ASSOCIATE PROFESSOR level. This appointment will be made in the Institute of Neurosciences, an interdepartmental, multidisciplinary research group responsible for coordinating and overseeing neuroscience research at the University. Applicants are expected to have established a strong record of scientific research and a commitment to excellence in teaching at the undergraduate and graduate levels. The University is changing its tenure review policy and the effective date of the appointment is 1 Feb-ruary 1992. Applicants should send curriculum vitae statement of research interest, and three letters of recommenda-tion to: Dr. J. M. Mamede, Department of Biology, University of Oregon, Eugene, OR 97403. The University of Oregon concurrently has openings for a development biologist or geneticist (contact Molecular Biology Search, Department of Biology), a biophysicist (contact Biophysics Search, Institute of Molecular Biology) and a biochemist (contact Biochemistry Search, Department of Chemistry). Women and minorities are encouraged to apply. The University of Oregon is an Affirmative Action/Equal Opportunity Employer.

THREE FACULTY POSITIONS

CELL/ECOLOGICAL/AQUATIC BIOLOGY

CSU San Marcos, the newest campus of the California State University system, seeks applicants for three tenure-track positions in cell biology, developmental biology, and aquatic biology. These positions are open to: Dr. R. J. Goforth, Search, Department of Biology, College of Natural Sciences, CSU San Marcos, 333 W. Vallecitos, San Marcos, CA 92096. The positions are subject to final authorization.

Send letter of application, curriculum vitae, statement of research and teaching interests, and accomplishments by 10 January 1993, and three letters of support to: Chair, Biology Search Committee, CSUSM, Science Annex, 220 West Vallecitos, San Marcos, CA 92096. The positions are subject to final authorization.

CSUSM is an Equal Employment Opportunity/Affirmative Action/Title IX Employer. Women and minorities are encouraged to apply.

RESEARCH ASSISTANT PROFESSOR

UNIVERSITY OF UTAH

Available immediately for M.D. or Ph.D. with a background in molecular biology and genetic research. Major activity is to direct laboratory in mapping and isolating cancer predisposing genes. Candidate will work with team to map loci predisposing to cancer, refine linkages, and develop a physical and genetic map around them. Position for 2 years minimum, competitive salary. Send curriculum vitae and three letters of reference to: Dr. Paul H. Zen, Ph.D., Genetical Epidemiology, University of Utah, 420 Chipeta Way, Room 180, Salt Lake City, UT 84108. Deadline: 15 January 1992 or until position is filled.

The University of Utah is an Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR, MATERIALS CHEMIST


SCIENCE, VOL. 254
POSTDOCTORAL SCIENTIST AND RESEARCH ASSOCIATE NEUROBIOLOGY

Amgen has distinguished itself as the industry leader in the development of human therapeutic products through applications of biotechnology. As a result of our continuing commitment to the discovery and characterization of novel neurotrophic factors, we are actively seeking a Postdoctoral Fellow and a Research Associate to contribute to the development of this program. Both positions require a background in the neurobiology of learning and memory, and experience with rodent models of cognitive dysfunction.

Candidates must be familiar with classical conditioning and spatial learning paradigms in addition to experience with neuropharmacological techniques, including in vitro receptor autoradiography. Applicants for the Postdoctoral position must have a PhD in the Neurosciences with a focus on learning and memory. Research Associate applicants must have a BS or MS in Biology, Psychology or other appropriate discipline and a minimum of 2 years' experience in the fields indicated.

Amgen provides a stimulating and challenging research environment in which individuals are given the resources necessary to achieve their goals. Our compensation and benefits package reflects our commitment to attracting the best scientific talent available. If you have the necessary skills and would like to be a part of an organization that places its highest priority on its human resources, please send a complete CV, in confidence, to:

AMGEN, INC.
Recruitment, Dept. #619
Amgen Center
Thousand Oaks
CA 91320-1789

Equal Opportunity Employer
STANFORD UNIVERSITY
RESEARCH ASSOCIATE OR
SENIOR RESEARCH ASSOCIATE POSITION
IN PROTEIN CRYSTALLOGRAPHY AT SSRL

The Biotechnology Group at the Stanford Synchrotron Radiation Laboratory (SSRL) has an opening for a Ph.D. scientist with research interests and experience in protein crystallography and crystallographic computing. SSRL has a vigorous program in protein crystallography using synchrotron radiation from the dedicated storage ring SPEAR. Facilities have been developed for the collection of multi-wavelength diffraction data using a multi-wire area detector, and for routine high-speed photographic data collection using a rotation camera mounted on a high intensity wiggler beam line. The RA/SRA will have the opportunity to participate in the further development of multi-wavelength anamalous dispersion phasing techniques to solve macromolecular structures, the development of white beam Laue diffraction techniques for time-resolved studies, data collection at extremely low-temperatures, the development of novel x-ray detectors (such as imaging plates and CCD's), and the development of methods to facilitate data collection from microcrystals. SSRL offers an RA/SRA 50% of his/her time to pursue individual and collaborative research projects. Funds for materials/supplies and capital equipment, as well as staff priority beam time, are also provided. For the other 50% of time, the RA/SRA will advise and assist visiting user groups and participate in beam line and experimental facility (and methodology) development projects related to protein crystallography. A willingness to provide good quality user support is considered to be a very important part of this staff position. A strong background in protein crystallography is essential. Experience in software development on VAX systems in "C" and Fortran, and in real time instrument control would be very desirable. Salary and appointment period will be determined by experience. The position includes full Stanford University staff benefits. Interested applicants should send a CV, a list of publications and the names and phone numbers of three referees, together with a brief description of their research interests to Dr. Paul Phizackerley, SSRL, Stanford Linear Accelerator Center, P.O. Box 4349, Bin 68, Stanford University, California 94309, USA. Application deadline is February 1, 1992; however, early application is recommended since applications will be reviewed as received. Stanford University is an Equal Opportunity Employer.

DEAN
SCHOOL OF MEDICINE
UNIVERSITY OF CALIFORNIA, DAVIS

The University of California, Davis invites applications and nominations for the position of Dean of the School of Medicine. The Dean is the chief academic and administrative officer of the School responsible for leadership of the School in all education, research, patient care, and public service programs; academic planning; developing and managing resources; and articulating the goals and programs of the School to the community and to governmental leaders at local, state, and national levels. Together with the Hospital Director, the Dean provides leadership in the development of the UC Davis Medical Center, a 471 bed comprehensive academic medical center supporting the School's academic missions.

Nominees and applicants must hold an M.D. degree, have a distinguished record of teaching and research, and have demonstrated leadership and administrative capabilities. We seek candidates who have a deep commitment to academic and clinical excellence and to affirmative action; who understand the challenges posed by changes in the national medical environment; and who will be able to lead the School in its continuing development.

Nominations and applications are desired by February 10, 1992 and should be sent to Chancellor Theodore L. Hullar, Office of the Chancellor, UC Davis, Davis, CA 95616-8588. Applications should include a curriculum vitae and the names, addresses, and telephone numbers of five references. The position will remain open until filled. The starting date will be September 1, 1992, or as negotiated.

UC Davis is an affirmative action, equal opportunity employer.

SENIOR EDITOR

An editorial position at Science is available for a PhD scientist with a broad range of interests and research experience in biological or physical sciences. We are seeking someone with five to ten years of experience and publications in the refereed literature. Established connections with the scientific community and knowledge of trends/important research questions essential. Editor must have strong technical editing and interpersonal skills. Previous editorial experience is required. This is a full-time position in our Washington office.

Please send resume and a list of publications with cover letter and salary requirements to:

Mr. Gregory Stokes
AAAS
1333 H Street, NW
Washington, DC 20005

EOE
Affymax Research Institute is a new therapeutic drug discovery company. If you are as dedicated as we are and you would like to work in a stimulating environment, we currently have the following positions available:

Staff Scientist/Receptor Biology (3 positions) – Will be responsible for developing programs using novel technologies to discover and optimize ligands for cell surface receptors. Requires Ph.D. with 2 or more years of post-doctoral training in molecular biology, immunology or molecular pharmacology. Experience in one or more of the following is required: mutagenesis and expression of recombinant proteins, purification and labelling of proteins, receptor binding assays, assays for studying cellular signal transduction. A broad knowledge of receptor biology is necessary. Knowledge of molecular biology techniques is essential, experience in structure/function studies would be an asset. (11SS/RB)

Staff Scientist/Biochemistry – Will participate in a program employing novel screening technologies to discover and optimize inhibitors of proteases and other enzymes. Requires a Ph.D. with 2 or more years of post-doctoral training in biochemistry, molecular biology or related areas. Experience in one or more of the following is required: expression and purification of recombinant proteins; analysis of enzyme mechanism and inhibition; mutagenesis and analysis of mutant proteins. Familiarity with bacterial genetics and culture; synthesis and analysis of peptides or chemical/enzymatic modification of proteins would be an asset. (11SS/B)

Staff Scientist/Bioorganic Chemistry – Will join a multidisciplinary team of chemists and biologists in developing technology for creating and screening large combinatorial libraries of synthetic compounds. Requires a Ph.D. with at least 2 years post-doctoral research experience in synthetic organic chemistry. Familiarity with both peptide and nucleic acid chemistry is essential. (11SS/BC)

Staff Scientist/Exploratory Chemist – Will participate in a program aimed at optimizing the therapeutic utility of drug leads. Requires a Ph.D. in organic chemistry and 2-5 years post-doctoral experience in medicinal chemistry. Must be familiar with instrumental methods of analysis and separation including NMR, US/VIS, IR, HPLC, GC, etc. Experience with capillary gel electrophoresis and in vitro enzyme kinetics is desirable. (11SS/EC)

Postdoctoral Fellow/Protein Biochemistry – Will create and analyze large libraries of variants of structurally constrained bioactive peptides. Requires a recent Ph.D. with expertise in the field of protein biochemistry. Experience in the study of the structure and function of peptides is highly desirable. Some experience with the techniques of molecular biology and microbiology would be helpful. (11PF/PB)

Postdoctoral Fellow/Receptor Biology – Will develop technology for using random peptide libraries to discover novel ligands for cell surface receptors. Requires a recent Ph.D. in biological sciences with experience in some molecular biology, cell culture and/or microbiological techniques. Expertise in methods for studying cell-surface receptors (cloning and expression of receptor cDNAs, radioligand binding studies) is highly desirable. (11PF/RB)

Postdoctoral Fellow/Biochemistry – Will study structure/function relationships of matrix metalloproteases, focusing on properties such as autoinhibition, inhibition by TIMPS and substrate specificity. Requires a recent Ph.D. with experience in the use of molecular biology to study protein biochemistry. (11PF/BD)

To become part of our new company, send your resume with appropriate job code to:

Affymax Research Institute
Human Resource Department
4001 Miranda Avenue, Palo Alto, CA 94304
EOE
Cambridge Neuroscience is an emerging pharmaceutical company committed to the discovery and development of unique medicines for the treatment of major disorders of the nervous systems. The Company is recognized for its combination of scientific expertise in biotechnology, chemistry, and pharmacology, as well as its collaborations with leading academic institutions and experts.

We are seeking to expand our efforts with the help of the following professionals to work on the isolation and characterization of genes encoding neurotrophic factors and of cell death genes:

**STAFF SCIENTISTS**

**Molecular Biology**

Ph.D. plus 2-4 years' post-doctoral experience in molecular biology required. The preferred candidate will have broad experience in gene isolation and analysis including: library construction, gene/C DNA cloning, in situ hybridization, quantitative RNA analysis, DNA sequence analysis, PCR using degenerate primers, mutagenesis and expression in heterologous systems. The ideal candidate will have applied several/most of the above approaches to investigations in molecular neurobiology.

Cambridge Neuroscience offers competitive salaries and benefits. For immediate consideration, send your resume, with salary history and the names of three references, to: Cambridge Neuroscience, SCI1213, One Kendall Square, Building 700, Cambridge, MA 02139. An equal opportunity employer.

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**POSITIONS OPEN**

**Virologist.** Cornell University seeks candidates for a tenure-track position in molecular virology. Appointment will be at the Assistant Professor level or at a higher level for exceptional candidates. The successful applicant will be expected to develop an independent, competitively-funded research program and to teach veterinary and graduate students. We anticipate that the area of research will complement existing programs in the college, especially in viral oncology. Applicants should have a Ph.D. and preferably a D.V.M. or equivalent. Experience in molecular virology at the post-doctoral level is required. This position is part of a major commitment to apply molecular approaches to animal health research. Applications including curriculum vitae, outline of research interests and the names of three references should be sent to: Dr. Roger J. Avery, Department of Microbiology, Immunology and Parasitology, College of Veterinary Medicine, 615 Veterinary Research Tower, Cornell University, Ithaca, NY 14853-6401. Screening of candidates will begin immediately and will continue until the position is filled. Telephone inquiries will be welcomed (607-255-3400). Cornell University is an Equal Opportunity/Affirmative Action Employer.

**BIOCHEMISTRY AND MOLECULAR BIOLOGY**

**MEDICAL COLLEGE OF GEORGIA**

Applications are invited for a tenure-track faculty position at the level of ASSOCIATE PROFESSOR or PROFESSOR. Outstanding candidates in all areas of MOLECULAR BIOLOGY are encouraged to apply. The successful candidate will be expected to maintain a vigorous research program and to participate in the training of graduate and medical students. Curriculum vitae, reprints of publications, a statement of future research plans, and the names of three references should be sent to: Dr. Barry Whitney, Molecular Biology Search Committee, Department of Biochemistry and Molecular Biology, Medical College of Georgia, Augusta, GA 30912-2100. To guarantee full consideration, materials should be received by 1 March 1992. The Medical College of Georgia is an Affirmative Action/Equal Opportunity Employer.

**COLUMBIA UNIVERSITY**

**DEPARTMENT OF PHARMACOLOGY**

The Department of Pharmacology invites applications for the position of ASSISTANT or ASSOCIATE PROFESSOR (both tenure-track). Successful candidates are expected to establish an independent research program in the molecular analysis of receptor mediated signal transduction. Requirements include a Ph.D. and/or M.D. degree and a minimum of 2 years of postdoctoral research in molecular biology or molecular genetics.

Candidates should submit a curriculum vitae, a brief statement of research interests and future plans, and the names of three references by 6 January 1992 to: Dr. Steven Siegelbaum, Search Committee, Department of Pharmacology, Columbia University, 620 West 168th Street, New York, NY 10032.

Columbia University is an Equal Opportunity/Affirmative Action Employer.

**DARTMOUTH COLLEGE**

**ENVIRONMENTAL STUDIES PROGRAM**

**SENIOR FACULTY APPOINTMENT**

Dartmouth College is seeking a CHAIR for the Environmental Studies Program. The appointment will be at the ASSOCIATE OR FULL PROFESSOR level, depending upon the qualifications of the candidate. Anticipated start date is September 1992. Responsibilities as chair do not necessarily have to be assumed immediately.

Candidates must have an outstanding scholarly record, with an active research program in some field of natural science and evidence of interest in the broader societal or policy implications of environmental matters. In addition, candidates must be able to direct and participate in a broadly based interdisciplinary teaching and research program.

Applications should be sent to: Chair, Environmental Studies Search Committee, Dartmouth College, 337 Murdock Center, Hanover, NH 03755. The search committee will begin to read applications on 2 January 1992.

Dartmouth College is an Equal Opportunity/Affirmative Action Employer.
ASSISTANT OR ASSOCIATE PROFESSOR, BIOCHEMISTRY/MOLECULAR BIOLOGY

The Department of Biochemistry at the Uniformed Services University of the Health Sciences (USUHS) invites applications for two 12-month salaried tenure-track positions available in 1992. Outstanding candidates in all areas of biochemistry and molecular biology are encouraged to apply. Candidates at the assistant professor level must have postdoctoral experience and will be expected to develop a vigorous basic research program. Applicants for associate professor should have an ongoing extramurally funded research program, and have teaching experience. Faculty will participate in the training of medical and graduate students. Please send curriculum vitae, reprints of two to three publications, a statement of future research plans, and at least three letters of recommendation by 1 February 1992 to: Uniformed Services University of the Health Sciences, c/o Civilian Personnel Office (LD:BIOCHEM), Biochemistry Search Committee, 4301 Jones Bridge Road, Bethesda, MD 20814. USUHS is an Equal Opportunity Employer.

TENURE-TRACK FACULTY POSITIONS DEPARTMENT OF ANATOMY AND CELL BIOLOGY

The Department of Anatomy and Cell Biology, Texas College of Osteopathic Medicine (TCOM), has openings for two (2) tenure-track faculty positions, one ASSISTANT PROFESSOR and one ASSOCIATE PROFESSOR. TCOM, located in the Dallas/Fort Worth Metroplex, is a state-supported medical college affiliated with the University of North Texas and is the cornerstone of a rapidly developing health sciences center.

Applicants for assistant professor must have a Ph.D. or equivalent degree, significant postdoctoral experience, and the potential to develop an extramurally funded research program in one of the following areas:

- Molecular Biology
- Immunology

Preference will be given to individuals working in the area of retinal biology who can contribute to a growing multidisciplinary program in the visual sciences. Teaching responsibilities will be at the medical and graduate school level in cell biology and/or the anatomical sciences. Applicants for associate professor must have a Ph.D. or equivalent degree and significant experience in teaching anatomic and cell biology to medical students with an interest in directing the course. A funded research program is expected prior to or at the time of appointment.

Applicants are encouraged to apply for any TCOM vacancy for which they are qualified.

DEAN, COLLEGE OF SCIENCES

The University of New Orleans, Louisiana's major urban public institution, is a comprehensive, selectively admitting university in the Louisiana State University System. Founded in 1958, it has 16,210 students, and 717 full- and part-time faculty members. The College of Sciences consists of seven departments: biology, chemistry, computer science, geology and geophysics, mathematics, physics, and psychology. All departments offer bachelor's and master's degrees, and chemistry and psychology offer the Ph.D. Degree.

The screening committee is actively seeking applications and nominations. For more information, address correspondence to: Dr. George Joup, Chair, Screening Committee for College of Sciences, Office of Academic Affairs, University of New Orleans, New Orleans, LA 70148. Applications should include a cover letter, curriculum vitae, and the names, addresses, and telephone numbers of three references. Review of applications will begin 3 February 1992. Equal Employment Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, BIOLOGIST, B.S.

Frederick, MD - CODE 2237

A Ph.D. in Molecular Biology or Chemistry, and experience with nucleic acids, monoclonal antibodies, and recombinant DNA methodology are required. Applicants should have demonstrated experience in the isolation and analysis of nucleic acids following electrophoresis in agarose or polyacrylamide gels. The successful candidate will possess 6-8 years of experience in research or equivalent experience in the field. An equal opportunity/affirmative action employer.

ASSOCIATE PROFFESSOR, BIOLOGIST, B.S.

Frederick, MD - CODE 2238

A Ph.D. or M.D. is required. Experience in molecular biology and cell biology is required. An equal opportunity/affirmative action employer.

MOLECULAR BIOLOGIST, B.S.

Frederick, MD - CODE 2239

A Ph.D. in Molecular Biology or Chemistry is required. An equal opportunity/affirmative action employer.

RESEARCH SUPPORT STAFF

(Various Locations) - CODE 2240

GEO-CENTERS, INC. is seeking technical staff members at the B.S./M.S. levels for our research activities nationwide. Applicants for these positions will have degrees in Molecular Biology, Microbiology, Chemistry, or related fields, as well as practical laboratory experience. Candidates should indicate geographic preferences (MD, IL, OH, CA, etc.) and submit their qualifications for review.

GEO-CENTERS, INC., offers highly competitive salaries, generous benefits and relocation assistance. U.S. CITIZENSHIP OR GREEN CARD IS REQUIRED. Applicants selected may be subject to a security investigation and must meet eligibility requirements for access to classified information. Candidates should forward their resume, salary requirements and references to: GEO-CENTERS, INC., 10033 Indian Head Highway, Fort Washington, MD 20744, Attn: Deborah Hall-Green/Code: GEO-CENTERS, INC. is an equal opportunity/affirmative action employer. (Principals only.)

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CHEMISTRY POSITION

Agnes Scott College invites applications for the William and Rand Kenan, Jr., PROFESSOR OF CHEMISTRY, a full-time, tenure-track position starting August 1992. Ph.D., demonstrated excellence in teaching, and a solid record of research or equivalent experience required. Opportunity to participate in leadership role in establishment of regional, multidisciplinary science center for women. Recently renovated building with excellent facilities and equipment. ACS-accredited program. Send letter of application, curriculum vitae, and three references to: Name of Chair, Agnes Scott College, Decatur, GA 30030-3797. To receive full consideration, applications must be received by 3 January 1992. An Equal Opportunity Employer.

CANCER CENTER DIRECTOR

The University of Florida College of Medicine is seeking a Cancer Center Director who will hold a 12-month academic administrative appointment and report to the Dean of the College of Medicine. This individual will fill a tenure-track faculty appointment as PROFESSOR. The candidate should have an M.D. degree with excellent clinical credentials and a solid track record in research achievement. Responsibilities include: (1) The Cancer Center Director will serve as the Medical Director of the ambulatory Cancer Center and will serve as Director of the Cancer Center. The Director will promote multidisciplinary clinical and research activities in areas related to cancer. The Director will direct activities in support of the institution's application for the Cancer Center core grant; will recruit research faculty to endowed chairs related to cancer research. The Director will develop cancer screening and community education projects as appropriate. The Director will serve as chairperson of the Cancer Center Steering Committee and administer space assignments for the Cancer Center. Local recruitment of current curricular vitae and include a summary of relevant experience, clinical and administrative experience. The application deadline is 15 March 1992. Applications should be sent to: James E. McGuigan, M.D., Search Committee Chairman, Chairman, Department of Medicine, University of Florida College of Medicine, Gainesville, FL 32610-2077.

DIRECTOR OF TECHNOLOGY TRANSFER

The University of Utah seeks a new Director for the Office of Technology Transfer. The primary responsibilities of this position are to: (1) manage the intellectual property arising at the University of Utah; (2) administer the university's Technology Transfer Office and personnel; and (3) interact with state and local community officials on economic development issues. The candidate for this position should have a broad-based background in technology/legal/business, with demonstrated effectiveness in planning, controlling, organizing, staffing, budgeting, and marketing, with an earned advanced degree in a relevant field. Experience in technology evaluation, patentability analysis, business plan formulation and review, and technology license negotiation is required. Interpersonal skills to be able to work with others in the academic and independent research community as well as staff and business executives are important. A working knowledge of patent law, contract law, licensing law, federal law, federal government funded research results, transfer of technology in a university setting, general accounting and business skills is expected. Please submit letter of application and supporting letters of reference to: Dr. Kent Smith, Chair, Search Committee, 3148 Haven House Building, University of Utah, Salt Lake City, UT 84112. Screening of applications will begin 1 January 1992 and will continue until the position is filled.

CHAIR

DEPARTMENT OF BIOCHEMISTRY

COLLEGE OF MEDICINE

Applications and nominations are invited for the position of Professor and Chair of the Department of Biochemistry to succeed Dr. Elizabeth R. Lord. We seek a person (M.D. and/or Ph.D. or equivalent degree) who has been widely recognized for achievement in biochemistry and who has a significant interest in the education of medical and graduate students. The successful candidate will have the opportunity to recruit additional faculty and develop new programs. The department has an active Ph.D. program and there are opportunities for growth and new interactions. Applications and nominations are invited for an endowed Chair of Biochemistry. The University of Utah is an Equal Opportunity Employer and encourages applications from women.

Chair, Department of Biochemistry

The University of Texas M. D. Anderson Cancer Center (UMDAC) is currently seeking an experienced administrative manager to fill a full-time position in our Thoracic Surgery Department. This individual will be responsible for managing the business affairs of the department as well as assisting the Chair with care related duties. Requirements for consideration include:

- Bachelor's degree in business or health care administration.
- Experience in business, consumer affairs, or public relations.
- Five years business/management experience including 2 years in health care or related field.
- Previous research, laboratory or clinical experience.
- Ability to run laboratory facility and monitor budgets, grants and contracts.
- Familiarity with NIH and NCI.
- Excellent communication and interpersonal skills.

UTMDACC offers a competitive salary and benefits package. Qualified candidates are encouraged to send resumes to: Dr. Margaret Thompson, M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, HMB 205, Houston, TX 77030. An Equal Opportunity Employer. Smoke-free environment.

ASSISTANT ACADEMIC DIRECTOR, DEPART- MEENT OF OBSTETRICS AND GYNECOLOGY

Applications are invited for a full-time, one-year appointment as Assistant Academic Director, Clinical Ob/Gyn, in the Department of Obstetrics and Gynecology at Memorial Sloan-Kettering Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. Responsibilities include: (1) recruit and develop research programs for mid-career faculty; (2) continue to mentor junior faculty in the development of academic and clinical endeavors, leading to publication in peer-reviewed journals; (3) create a climate of excellence for clinical education. Candidates should have a demonstrated ability to accomplish the above goals as well as administrative duties. As Saint Michael's is affiliated with Seton Hall University, an academic appointment will be encouraged.

University of Texas Southwestern Medical Center, 3300 Harry Hines Blvd., Dallas, TX 75390.

THE ANDERSON TEAM

ADMINISTRATIVE MANAGER/THORACIC SURGERY

The University of Texas M. D. Anderson Cancer Center (UTMDACC) is currently seeking an experienced administrative manager to fill a full-time position in our Thoracic Surgery Department. This individual will be responsible for managing the business affairs of the department as well as assisting the Chair with care related duties. Requirements for consideration include:

- Bachelor's degree in business or health care administration.
- Experience in business, consumer affairs, or public relations.
- Five years business/management experience including 2 years in health care or related field.
- Previous research, laboratory or clinical experience.
- Ability to run laboratory facility and monitor budgets, grants and contracts.
- Familiarity with NIH and NCI.
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UNIVERSITY OF MONTANA

DEPARTMENT OF PHYSIOLOGY

PROFESSOR AND HEAD

Applications are invited for the position of Head of the Department of Physiology at the University of Montana, for a 5-year term commencing 1 July 1992, or as soon thereafter as possible. This position comes with a rank of Professor. The successful candidate should have a substantial record of academic achievement in physiology as well as proven administrative experience. The department is responsible for programs of education and research in graduate and undergraduate level. Salary and academic rank will be commensurate with qualifications and experience. The University of Montana encourages applications from women and men, including members of visible minorities, aboriginal people, and persons with disabilities. The University provides a smoke-free environment on designated campus areas. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens or permanent residents. Interested candidates should apply, enclosing curriculum vitae, in writing to: Dr. Walter G. Anthonisen, Chair, Department of Physiology Search Committee, Dean, Faculty of Medicine, University of Montana, 753 Fisher Lane, Missoula, MT 59812. Closing date: when position is filled.

CHAIR

DEPARTMENT OF BIOLOGY

HOWARD UNIVERSITY

The search has been extended for the position of Chairperson of the Department of Biology, which will be established upon the merger of the existing Departments of Botany and Zoology on 1 July 1992. The new department will have 30 faculty members, approximately 600 undergraduate majors, and 50 graduate students. Candidates should have a distinguished record of consistent research productivity, extramural support, a commitment to teaching, and a willingness to exercise innovative and resourceful leadership in building the department and its new academic programs. The area of concentration is open. Applicants should qualify for the rank of full professor. Salary is commensurate with qualifications and experience. Applications, designated by 15 January 1992, curriculum vitae, names and addresses of three references, and a statement of educational and administrative experience should be sent to: Dr. Mary McKenna, Chair, Biology Search Committee, Office of the Dean, College of Arts and Sciences, Locke Hall, Room 101, Howard University, Washington, DC 20059. Howard University is an Equal Opportunity Employer.
Post-Doctoral Fellowship


For a term of 2 years and should follow no more than 4 years after conferring of your doctorate.

Division of Plant Industry
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We need a highly motivated scientist to work as part of a team investigating the implications of global atmospheric composition and climate change on plant and ecosystem performance.

You will investigate biochemical, physiological and morphological acclimation phenomena which develop through time when plants are grown continuously in above-normal atmospheric carbon dioxide concentrations.

For more information on the job contact Dr Roger M. Gifford on 61 6 246 5441 or fax 61 6 246 5000.

The Selection Criteria and Duty Statements are available from Lynette on 61 6 246 5295 or fax 61 6 246 5000.

Your application, including your curriculum vitae, highlighting your skills, qualifications and work experience, should be framed against the selection criteria, quote Ref No. PG 91048 and be sent to: The Recruitment Office, CSIRO Division of Plant Industry, GPO Box 1600, Canberra, ACT 2601, Australia, by January 24, 1992.

MOLECULAR GENETICIST

POST-DOCTORAL POSITION

National Institute of Diabetes and Digestive and Kidney Diseases
Phoenix, Arizona

Full-time post-doctoral research position for an M.D. or Ph.D. (preferably with some years of relevant experience) at the Clinical Diabetes and Nutrition Section. The project involves genetic analyses of obesity related phenotypes in the Pima Indian population.

The candidate is expected to work independently, as well as in close collaboration with other investigators studying the genetics of non-insulin dependent diabetes.

Send curriculum vitae, three letters of reference, and a summary of current research activity to:

Eric Ravussin, Ph.D.
Clinical Diabetes and Nutrition Section
National Institutes of Health
4212 North 16th Street, Room 541
Phoenix, Arizona 85016

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By the time you finish reading this, we’ve saved 6,334,211 lives.

It’s our business to protect the water as if our lives depended upon it. Because, actually, they do. We bring enough fresh water to maintain the quality of life for people all over South Florida. In fact, over 6 million people depend on us every day.

Applied Environmental Scientist

The ideal candidate will possess a strong background in limnology and statistics and will have a documented record of using these skills to understand, explain, and solve applied environmental problems. Ph.D. in Limnology, Environmental Sciences, Environmental Engineering or similar fields preferred; M.S. considered. Experience with Florida limnology, sediment-water interactions, mathematical modeling, and SAS is highly desired.

This position offers a competitive salary and fringe benefit package, a desirable sub-tropical location and the opportunity to influence the future of South Florida’s environment. Please contact Dr. Thomas D. Fontaine, Director, Water Quality Division, (407) 687-6551, or send resume to: Ms. Linda Starr, Human Resources Department, Re: AES/S192, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, Florida 33416. E.O.E. M/F/H/V.

South Florida Water Management District
When we talk about the environment, we mean business.
POSITIONS OPEN

UNIVERSITY OF ARKANSAS
AT LITTLE ROCK

CHAIRPERSON OF THE DEPARTMENT OF BIOLOGY

Applications are invited for the position of Chairperson, Department of Biology available on 1 July 1992. The University of Arkansas at Little Rock is a metropolitan institution with a curricular emphasis on approximately 12,000 students. The Department of Biology consists of 19 full-time faculty members and 250 majors in its various programs. The Department offers baccalaureate degrees in the fields of biological sciences with four options: biochemistry, molecular biology, microbiology, and environmental biology. The Department has recently received a major Department of Education grant resulting in many new equipment and laboratory improvements. Qualified candidates are welcome. Applicants should have earned doctorate and be expected to have a strong commitment to teaching, scholarly activity, and service. The successful candidate will be expected to develop and maintain a curricular emphasis in one or more areas of research, and will have potential to provide leadership for the development of academic and research initiatives. Salary range is $52,406 to $68,129 per annum, depending on qualifications and experience. Replies to be received by 27 December 1991. Applicants should submit: (1) letter describing qualifications and career goals, (2) curriculum vitae, and (3) a list of publications to: Nancy J. Cox, Ph.D., Acting Chief, Influenza Branch (G16), Division of Viral and Rickettsial Diseases, Centers for Disease Control, 1600 Clifton Road, NE, Atlanta, GA 30333. Telephone: 404-639-3591; FAX: 404-639-2334. CDC is an Equal Opportunity Employer and provides a smoke-free environment.

CHAIRPERSON

DEPARTMENT OF BIOCHEMISTRY
PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE

Philadelphia College of Osteopathic Medicine (PCOM) invites applications for the position of Professor and Chairperson of the Department of Biochemistry. Applicants should have a Ph.D., Ph.D./D.O., or equivalent degree(s); strong leadership ability to direct the educational and research programs of the department; and a proven record in biomedical research, teaching, and administration of health professions programs at PCOM, which is a recognized leader in osteopathic education, research, and clinical practice.

Application materials should be postmarked on or before 2 January 1992 and will be considered until a suitable candidate is found. Interested candidates should send their curriculum vitae and the names, addresses, and telephone numbers of three references to: Susan P. Mitchell, Ph.D., Chair, Biochemistry Search Committee, Department of Physiology and Pharmacology, Philadelphia College of Osteopathic Medicine, 550 City Avenue, Philadelphia, PA 19131-1696.

PCOM is an Equal Opportunity Employer that offers a competitive salary and benefits package.

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Washington, DC 20005

POSITIONS OPEN

The Centers for Disease Control (CDC) is seeking qualified applicants for the position of Medical Officer, Research Biologist, Experimental Virology Section, Influenza Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases. The person appointed will conduct, direct, and coordinate studies on influenza viruses and their role in human disease. A research virologist with extensive experience in molecular biology is being sought. Experience with a doctoral degree, a record of established research in virology, significant scientific accomplishments in one or more areas of relevant research, and proven ability to provide leadership for the development of academic and research initiatives. Salary range is $52,406 to $68,129 per annum, depending on qualifications and experience. Replies to be received by 27 December 1991. Applicants should submit: (1) letter describing qualifications and career goals, (2) curriculum vitae, and (3) a list of publications to: Nancy J. Cox, Ph.D., Acting Chief, Influenza Branch (G16), Division of Viral and Rickettsial Diseases, Centers for Disease Control, 1600 Clifton Road, NE, Atlanta, GA 30333. Telephone: 404-639-3591; FAX: 404-639-2334. CDC is an Equal Opportunity Employer and provides a smoke-free environment.

The Biotechnology Division in the University of Arizona is seeking applications and nominations for the position of Director of the Biotechnology Division. At the University of Arizona, researchers of the Colleges of Agriculture, Arts and Science, Engineering, Health Sciences, Public Health, and Pharmacy have combined their efforts to develop a university-wide biotechnology program. The program has nine support faculty staffed by 20 professional and technical personnel with an operating budget of more than $1.5 million. The program is intended to provide interdisciplinary support and training to researchers of the state's universities, the state and the nation.

We're looking for an individual who can chair a committee that provides the opportunity to provide service and support for researchers in the broad field of biotechnology, as well as the skills, vision, and ability to develop and coordinate the program for the future. The selected candidate will be given an appointment in an appropriate academic department. Qualified applicants are invited to submit a resume and comprehensive curriculum vitae (including list of publications); a statement of their views, recommendations, and aspirations for the Biotechnology Division; and the names, addresses, and telephone numbers of at least three references to: Dr. Michael A. Cusanovich, Arizona Research Laboratories, 1031 Gould-Simpson Building, University of Arizona, Tucson, AZ 85721. All application materials must be received by 31 January 1992 or until the position is filled. The University of Arizona is an Equal Opportunity Employer. Nominations and applications from women and minorities are encouraged.

RESEARCH BIOLOGIST

SECTION CHIEF, INFLUENZA BRANCH
CENTERS FOR DISEASE CONTROL

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DIRECTOR

BIOTECHNOLOGY DIVISION
UNIVERSITY OF ARIZONA

The Biotechnology Division in the University of Arizona is seeking applications and nominations for the position of Director of the Biotechnology Division. At the University of Arizona, researchers of the Colleges of Agriculture, Arts and Science, Engineering, Health Sciences, Public Health, and Pharmacy have combined their efforts to develop a university-wide biotechnology program. The program has nine support faculty staffed by 20 professional and technical personnel with an operating budget of more than $1.5 million. The program is intended to provide interdisciplinary support and training to researchers of the state's universities, the state and the nation.

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IBEX Technologies

IBEX Technologies is a growing biotechnology company involved in the research and product development of medical devices and therapeutic applications relating to glycosaminoglycans. We have several opportunities for experienced individuals including:

GROUP LEADER
This candidate will have a Ph. D. in Biomedical Engineering or a related discipline and at least 5 years industrial experience. This individual’s responsibilities will be to lead a growing group of researchers in the development of enzymatically based medical devices used in extracorporeal therapy. This includes the development of strategic research plans and the coordination of internal research efforts with our outside collaborators.

SENIOR SCIENTIST - Molecular Biology
We are looking for an individual with a Ph. D. in Molecular Biology or a related discipline with at least 3 years industrial experience in the production and characterization of recombinant proteins in prokaryotes. The person filling this position will focus on the development of expression systems for use in production processes.

SENIOR SCIENTIST - Biomolecules
This individual will have a Ph.D. in Biochemistry, Chemistry or Biochemical Engineering and at least 3 years experience in the purification and characterization of proteins or carbohydrates. This individual will be responsible for the development and implementation of purification and analytical techniques in several processes.

PRODUCTION MANAGER
This candidate will have a BS/MS degree in a biological or chemical discipline with at least 5 years experience in the production of biological materials. Experience in the areas of bacterial fermentations, lyophilization, protein purification and GMP procedures will be considered. Responsibilities of this position include: assisting the installation of a production facility, establishing production procedures, coordinating production schedules, managing the production of a diagnostic product line and implementing GMP procedures.

IBEX Technologies is an equal opportunity employer located in the Montreal area. We offer a competitive compensation package that is combined with challenging work and the opportunity to make significant contributions to a growing company. To apply please send curriculum vitae to: IBEX Technologies, 5645 Chemin St. Francois, Ville St. Laurent, Quebec, H4S 1W6.

IMMUNOPHARMACOLOGY/IMMUNOTHERAPEUTICS (Search Reopened)

Assistant/Associate/Full Professor. The University of Illinois College of Medicine at Peoria invites applications from individuals with expertise in immunopharmacology. Individuals should have a record of academic achievement. Skills should be in at least two of three areas: (1) basic and/or clinical research; (2) histocompatibility and immunogenetics with UNOS qualifications; and (3) clinical immunosuppressive therapy. The immunopharmacologist will complement a growing cadre of biomedical scientists and medical practitioners. The appointment will be full-time with the College of Medicine, with a fraction of time allocated to renal and cardiac transplant programs. A joint appointment with the University of Illinois College of Pharmacy in Chicago is possible. Clinical responsibilities will include the management of immunosuppressive regimens for adult and pediatric transplant patients and the supervision of immunosuppressive drug trials. Research activities should be focused on the clinical pharmacology of immunosuppression or on the basic mechanisms of immunosuppressive pharmacology, pharmacokinetics or on molecular processes of immunology.

The candidate will have a Ph.D. in a relevant biomedical science, an M.D. and/or a Pharm.D. degree (or equivalent doctoral degree). Candidates seeking to fulfill the clinical management role will recognize the need to construct a program involving teaching, research, and service.

The University of Illinois is an Equal Opportunity/Affirmative Action Employer. Send curriculum vitae and names of three references to: Phillip C. Jobe, Chair, Department of Basic Sciences, University of Illinois College of Medicine at Peoria, P.O. Box 1649, Peoria, IL 61656. For information, call 309 671-8525.

BROOKHAVEN NATIONAL LABORATORY

Structural Biology Positions

New and unusual opportunities for structural biology are available in the Biology Department at Brookhaven National Laboratory. State-of-the-art facilities for x-ray and neutron diffraction at the National Synchrotron Light Source and High Flux Beam Reactor will have an important impact during the next decade. We are expanding our current program to exploit these facilities for structural studies and to make them useful to the community at large.

Openings are available for postdoctoral research associates and both junior and senior level staff scientists to participate in existing research programs or to initiate new ones, and to assist with outside user programs. Substantial expansion is anticipated and the appropriate senior scientist could have considerable impact on the overall program. The Biology Department has a range of programs in structural biology, molecular genetics and genome research, and scientific collaborations are encouraged.

Candidates should submit a curriculum vitae, an outline of research interests, and the names and addresses of three references to: F.W. Studer, Chair, Biology Department, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973. Brookhaven National Laboratory is an Affirmative Action/Equal Opportunity Employer.
Graduate Program in Cell and Molecular Biology (Multi-Departmental)

- Gene Expression and Regulation
- Developmental Biology and Genetics
- Signal Transduction and Membrane Biology
- Structural and Computational Biology
- Molecular Virology, Immunology and AIDS
- Cell Cycle, Growth Control and Cancer Biology
- Lipid Metabolism and Cardiovascular Biology
- The Human Genome and Gene Therapy

The Graduate school at Baylor College of Medicine has created a graduate program in Cell and Molecular Biology stressing basic research in the above areas. Students accepted for studies leading to the Ph.D. will receive financial support. For further information please contact Dr. Savio L. C. Woo, Director at the following address:

Graduate Program in Cell and Molecular Biology
Baylor College of Medicine
The Graduate School
One Baylor Plaza, Room S101
Houston, Texas 77030
Phone: (713) 798-6557

Post-Doctoral Position

National Institute of Diabetes and Digestive and Kidney Diseases
Phoenix, Arizona

A post-doctoral fellowship is available for a recent Ph.D. in biochemistry or related discipline to participate in studies of the mechanism of insulin resistance in man. Results of studies conducted in our laboratory suggest that abnormal regulation of skeletal muscle protein phosphatase (PPI) activity by insulin may be a primary defect responsible for insulin resistance and subsequent development of non-insulin dependent diabetes mellitus in humans. Current projects include studies of mechanisms of insulin regulation of PPI activity and gene expression.

This position is funded through the NIH Intramural Research Training Award Program and has a starting annual stipend of $25,000 - $28,000, depending on length of previous post-doctoral experience.

Send curriculum vitae and letter of application to:

David Mott, Ph.D.
Clinical Diabetes and Nutrition Section
National Institutes of Health
4212 North 16th Street
Room 541
Phoenix, Arizona 85016

NIH is an Equal Opportunity Employer
**Postdoctoral Position in Signal Transduction**

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has a postdoctoral position available immediately for an independent and highly motivated scientist with experience in biochemistry and cell biology to study signal transduction by endothelin receptors. Ongoing work includes 1) modulation of tyrosine kinase activity by endothelin, 2) coupling of endothelin receptors to activation of phospholipase A2, and 3) characterization of novel endothelin receptor subtypes and their receptor-effector coupling mechanisms.

Although the focus of the laboratory is on vascular cell biology, collaboration with other departments will be encouraged. Position offers extensive opportunity to develop expertise in several disciplines, including biochemistry, cell biology, and molecular biology. Candidates should be recent Ph.D. graduates with a background in either biochemistry, pharmacology or cell biology.

Appointment is for one year, renewable for a second year. Compensation includes a competitive salary with an attractive benefits package as well as relocation assistance. Please send resume and references to Human Resources, Box JD4-55, PARKE-DAVIS, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

"Equal Opportunity in Action"

**A Division of Warner Lambert**

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**BIOTRANSPANT INCORPORATED**

At BioTransplant, our mission is to discover, develop, manufacture and market products and services for patients who require organ transplants. Our technology, which will minimize systemic immunosuppression and associated toxicities, will be applied to vascularized organ allotransplant and xenografts.

As a newly founded, well-funded biotechnology firm with a strong scientific and management background, and a distinguished scientific advisory board, we know how critical scientific leadership and experience are to success.

**DIRECTOR OF MOLECULAR BIOLOGY**

Ph.D. in Molecular Biology with expertise in cloning and expression of mammalian proteins, transgenic and ES technologies.

**DIRECTOR OF CELLULAR IMMUNOLOGY/HEMATOLOGY**

Ph.D. Immunology or Hematology with expertise in bone marrow manipulation and/or animal allotransplant or xenograft models. Both positions must have 3+ years industrial supervisory experience.

**SENIOR SCIENTISTS**

Several openings exist for Ph.D.’s with 2+ years’ industrial experience in immunology, molecular biology, transgenic and ES techniques, or hybridoma development.

In addition to a stimulating professional environment, we offer a competitive compensation and benefits package. Please send your resume indicating the position to: Human Resources, BioTransplant, Inc., Building 96, 13th Street, Charlestown Navy Yard, Charlestown, MA 02129. We are an equal opportunity employer.

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**AASTROM Biosciences, Inc.**

AASTROM Biosciences, Inc. - located with the University of Michigan in Ann Arbor, MI. is recruiting senior scientists as it prepares for clinical trials and commercialization of its human stem cell technology.

**VICE PRESIDENT**

**RESEARCH AND DEVELOPMENT**

Individual must be an accomplished scientist and manager, with experience in commercial product development in the fields of mammalian cell culture/tissue engineering and preferably in bioreactor development. This person will be instrumental in the formulation and implementation of the company research direction and product development. This key management position is to be filled in early 1992.

**SENIOR RESEARCH SCIENTISTS**

Research-savvy individuals with motivation, strong communication skills, and demonstrated productivity in: a) hematopoietic cell culture or primary mammalian cell culture, or b) mammalian cell bioreactor development to lead cell expansion and bioreactor development projects.

Compensation packages are excellent and include stock option plan participation, relocation assistance and other standard benefits.

Please submit resume detailing qualifications to: AASTROM Biosciences, Inc.

P.O. Box 130469

Ann Arbor, MI 48113.

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**DIRECTOR**

**Management Decision and Research Center (MDRC)**

Broad experience in health services administration or management research is required to provide solid leadership for our newly created Management Decision and Research Center. As a component of the HSR&D Service, the Center will provide consultation to managers; development and administration of a management research program; including the establishment of a research agenda and coordination of VA data sources; and development of an information dissemination program.

Overseeing each of these areas, you’ll be responsible for all aspects of the Center’s operations; coordinate the Center’s services with existing VA programs; and work with VACO senior management to develop research areas and to support management decisions.

You must have a doctorate in one of the management, health or social sciences, or be a physician with post-doctoral training in health services research. Strong methodological skills, a demonstrated research background, and the ability to coordinate competing interests and to bring groups together are essential.

Your management and interpersonal relations skills will be evaluated through project management experience; service as the principal investigator on large, multi-disciplinary grants; and experience working in administrative settings.

Located in Boston, MA, you’ll be employed by the Department of Veterans Affairs, and an appropriate academic affiliation will be negotiated. You’ll also enjoy a competitive salary and generous benefits. Please send your resume to:

Daniel Deykin, M.D.,

Director, Health Services Research and Development Service,

Department of Veterans Affairs Medical Center

150 South Huntington Avenue, Boston, MA 02130.

We are committed to equal employment opportunities M/F/V.
PROFESSOR AND HEAD
DEPARTMENT OF BIOLOGICAL SCIENCES
CARNEGIE MELLON UNIVERSITY

The Department of Biological Sciences invites applica-
tions for a full-time tenure-track position as chair and
department head. We seek a person with an established
reputation in biological research and the demonstrated
ability to integrate and promote growth of this
department. Review of applications will begin
1 February 1992, and it is anticipated that the successful
candidate will be appointed by July 1992. Our
search will continue until an outstanding candidate
has been recruited.
Applications or inquiries should be sent to:

Biological Search Committee
Carnegie Mellon University
4400 Fifth Avenue
Pittsburgh, PA 15213

Carnegie Mellon University is an Affirmative Action/
Equal Opportunity Employer.

MIT CENTER FOR CANCER RESEARCH

Applicants are sought for TWO TENURE-TRACK
FACULTY APPOINTMENTS at the Massachusetts
Institute of Technology jointly in the Center for Cancer
Research and the Department of Biology. Candidates
should have a Ph.D. and appropriate accomplishments
in the areas of molecular and/or cellular mechanisms of
growth control, cell differentiation or behavior. Suitable
areas of interest include: cell signaling, signal transduc-
tion, oncology, cell cycle regulation, cell adhesion
and/or migration, and regulation of immune cells.
Successful candidates will be expected to establish an active
research program and to teach. Applications should
send curriculum vitae and a summary
of proposed research and arrange to have letters sent
by three individuals who can evaluate the candidate's
accomplishments and future potential for both research
and teaching. Applications and letters should be sent to:

CCR Search, Room E17-110
Center for Cancer Research
Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, MA 02139-4307

MIT is an Equal Opportunity/Affirmative Action
Employer. Women and minority candidates are encouraged to apply.

LABORATORY INSTRUCTOR
BIOLOGICAL SCIENCES
THE UNIVERSITY OF CHICAGO

The Biological Sciences Collegiate Division at The
University of Chicago seeks a qualified biologist to assist
faculty in teaching undergraduate courses beginning
fall 1992. We will consider applicants for appointment to one of two positions.
Applications are invited from individuals with teaching
experience who wish to pursue postdoctoral research. The
Department of Biology invites applications for a full-time
postdoctoral researcher to be available immediately.
Applications should be sent to:

Professor John B. Kuo,
Department of Biology,
The University of Chicago,
MC-470,
Chicago, IL 60637

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

POSITIONS AVAILABLE, POSTDOCTORAL
through ASSISTANT PROFESSOR level

Gene expression and cell differentiation and transformation. Forward resume and names of references to: Leonard H. Augenlicht, Ph.D., Director, Molecular Oncology Program, Albert Einstein Cancer Center, Montefiore and Albert Einstein Medical Centers, 111 East 210th Street, Bronx, NY 10467.

PROFESSOR AND CHAIR
FOOD SCIENCE AND HUMAN NUTRITION

Applications are invited for chair/head of the Depart-
ment of Food Science and Human Nutrition. The de-
partment is composed of 38 faculty members, 20
undergraduate and 80 graduate students. Affiliated with
two research centers having $20 million in new capital
growth. The department is in excess of $4 million
with >$2 million in external funding for fiscal year 1991.
Responsibilities: provide leadership and participate in
teaching, research and extension programs; promote
procurement of extramural funding for research and
innovative educational programs; facilitate faculty devel-
opment and student training; maintain an interdisciplinary
program; establish record of scholarship, national leadership
in area of expertise, administrative experience and teach-
ing experience. Salary negotiable. Applications due Date:29 February 1992. This is a full-time position.

EARTH AND OCEAN SCIENCES
UNIVERSITY OF VICTORIA
BRITISH COLUMBIA

Applications are invited for at least two new faculty
positions in the School of Earth and Ocean Sciences. The
School is conducting research in the fields of geological
and biological oceanography, marine geology, marine
biology, and the geology of the solid earth. The
Department of Geology is seeking a faculty member
for a position in marine geology, and the Department of
Geography is seeking a marine and coastal geographer.

Applicants should provide a resume, contact information
for three references, and a description of their research
interests for the position. Applications should be sent to:

Dr. Chris R. Barnes, Director, School of Earth and
Ocean Sciences, University of Victoria, P.O. Box 1700,
Victoria, British Columbia V8W 2Y2.

Deadline: 31 January 1992, or until the positions
are filled.

POSTDOCTORAL POSITIONS available immedi-
ately to study the recognition mechanisms of restric-
tion-modification enzymes and their role in biological and
biophysical techniques. Excellent facilities and research
environment. Ph.D. in molecular biology, biophysics,
biochemistry, or relevant experience in a related
discipline is required. The setee will begin with a start-up
salary and three references to: Dr. S. Chandrasegaran,
Department of Environmental Health Sciences,
School of Public Health, The Johns Hopkins University,
615 North Wolfe Street, Baltimore, MD 21205.
Telephone: 410-955-0023 or FAX: 410-955-0067.
Candidates must be U.S. citizens or permanent residents of the United States. The University of Virginia
is an Equal Opportunity/Affirmative Action Employer.

Deane's Hospital

POSTDOCTORAL POSITION IN HE-
MATOPOIESIS. Excellent opportunity in cellular and
molecular biology of hematopoietists with special emphasis
on stromal cell biology and signal transduction.
The laboratory has a number of highly productive ongoing
projects which could be expanded. Excellent salary and
stimulating intellectual and scientific environment.
Contact: Hava Avraham, Ph.D., Hematology/Oncology,
New England Deaconess Hospital, 185 Pilgrim Road,
Boston, MA 02215.

POSTDOCTORAL POSITION in BIOCHE-
MICAL/CARDIOVASCULAR PHARMACOLOGY.
Available for Ph.D. in biochemistry, biology, pharmacol-
y, or related discipline. Sought are individuals responsible
for nitric oxide generation from nitrovasodilators, mecha-
nisms of vasodilator tolerance, neurohumoral regula-
tion. Position available immediately. Send curriculum
vitae and names of three references to: Dr. H.-L.
Pung, Department of Pharmacology, State University of
New York, Buffalo, NY 14260. FAX: 716-636-

POSTDOCTORAL POSITION available immedi-
ately for protein engineering of IgG Fc receptor proteins.
Experience in molecular biology and work with proteins
is required. The successful applicant must be able to start
prior to February 1992. Salary will be $20,000 per year;
payment duration will be for 2 years, renewable yearly.
Applicants should send curriculum vitae with names and telephone numbers of three references to: Dr. William
R. Trumble, Department of Biotechnology and Bio-
chemistry, University of Idaho, Moscow, ID 83843.
Telephone: 208-885-5476; FAX: 208-885-5741. An
Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study
the regulation of ion transport in human epithelial cell
lines. Current activities concern the role of the kalrein-
ins in the normal and abnormal regulation of the system
through control of kalrein synthesis, receptor-coupled
transduction events and kinin degradation. Candidates
should have a Ph.D. in cell biology or a familiarity
with receptor and/or second messenger techniques. Send
curriculum vitae and names of references to: Dr. Donald
Michael, Department of Pharmacology and Cancer
Cell and Molecular Pharmacology and Experimental
Therapeutics, Medical University of South Carolina,
171 Ashley Avenue, Charleston, SC 29425.
POSTDOCTORAL POSITION in the National Center for Spin Trapping and Free Radicals. Must have recent Ph.D. training and experience in modern tandem mass spectrometry with a variety of LC inlet systems. Send resume and copies of applicable publications to: Edward G. Janzen or Cott M. Dubose, Molecular Toxicology Research Program, National Center for Spin Trapping and Free Radicals, Oklahoma Medical Research Foundation, 825 N.E. 13th Street, Oklahoma City, OK 73104.

POSTDOCTORAL POSITION BACTERIAL PATHOGENESIS. Available to began 1 January 1992 to 1 July 1992 to study molecular aspects of pathogenesis in *Vibrio cholerae*, *Escherichia coli* or *Corynebacterium diphtheriae*. Research emphasizes molecular genetics of toxin structure and function, regulation of toxin and associated virulence factors, molecular epidemiology, and vaccine development. Methods include DNA cloning and sequencing, transcriptional analysis, site-directed mutagenesis, protein engineering, immunochromometry, physical mapping of bacterial genomes, etc. Recent Ph.D. graduates with strong backgrounds in genetics, molecular biology, microbiology, or biochemistry are encouraged to apply. Foreign nationals will be considered if qualified. United States citizens are not available. Send curriculum vitae and names of three references to: Dr. Randall K. Holmes, Department of Microbiology, Civilian Personnel Office, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814-4799. Equal Opportunity/Affirmative Action Employer.

ASSISTANT RESEARCH SCIENTIST. Assistant research scientist OR POSTDOCTORAL POSITION to study the molecular biology and mechanism of entry of *Bartonella bacilliformis*, a pathogenic human parasite of red cells and capillary endothelium ([Benson et al., Infect. Immun. 54, 347 (1986)]) Research will involve identification of the receptor on human red cells, the bacterial surface protein involved in binding and entry, the characterization of the fibrous meshwork which binds the bacteria together, and cloning and study of Bartonella genome. Of special interest is the mechanism by which the bacterium stimulates endothelium cell proliferation. Send curriculum vitae and names of references to: Dr. Garrett M. Ihler, Department of Medical Biochemistry and Genetics, Texas A&M College of Medicine, College Station, TX 77843-1144. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION now available to study membrane and cellular signaling pathways that govern ion and fluid traffic across airway epithelia. Emphasis on mechanisms that underlie fluid transport in cys
tic fibrosis and other diseases involving chronic airway inflammation. Techniques include but are not limited to cell culture, intracellular recording, fluorescence, and the direct measurement of fluid movement across intact epithelial sheets. Send resume to: Dr. Sheldon Müller, Department of Molecular and Cell Biology, 237 LSA, University of California, Berkeley, CA 94720. FAX: 510-643-5109. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to apply nucleic acid hybridization probe technology to the estimation of growth and physiological state of marine and coastal plankton. Applicants should have a Ph.D. in biochemistry, molecular biology or a related discipline, and experience with production of nucleic acid probes, PCR, extraction, purification and analysis of RNA. Salary is $35,000 per year. Submit curriculum vitae, names of at least three references, and reprints of recent publications to: Dr. Lawrence Buckley, Graduate School of Oceanography, South Ferry Road, Narragansett, Rl 02881. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Available immediately to study aspects of gene regulation by nuclear hormone receptors in our laboratory. Work in our laboratory focuses on both receptor structure/function, and the identification of genes directly controlled by specific receptors during cellular differentiation. Applicants should have a strong background in biochemistry and molecular biology. Please send curriculum vitae, including three references, and a summary of previous research, to: Dr. Leonard P. Freedman, Cell Biology and Genetics Program, Room 470, Sloan-Kettering Institute, 1275 York Avenue, NY, NY 10021.

VICE PRESIDENT FOR RESEARCH UNIVERSITY OF UTAH

The University of Utah, the state's flagship public institution of higher education, seeks an experienced and dynamic person to foster and support the university's growing research programs. Located in Salt Lake City, the University of Utah has attracted an enrollment of 22,000 undergraduates and nearly 5,000 graduate students, as well as over 120 million dollars in sponsored research and related programs.

The Vice President for Research reports to the President and, working with the Vice President for Academic Affairs and the Vice President for Health Sciences, advises the President in all matters involving research policy and support. The Vice President oversees and coordinates the strategic planning, budgetary, and facilities development processes within these various programs. Under the direction of the President and in coordination with other cognizant vice presidents, the Vice President for Research is involved in a variety of University functions and, in particular, coordinates the research support and development efforts of the University's faculty, and recommends and administers the allocation of University cost-sharing and cost-matching funds for research projects.

Successful applicants must have the following qualifications:

* An earned doctorate degree.
* Proven record of management and scientific research skills.
* Leadership abilities that enhance academic research programs.
* Knowledge of technology transfer.

Salary will be commensurate with experience and qualifications. A collateral appointment at faculty rank, possibly with tenure or on tenure-track, may be considered. Review of applications will begin on February 1, 1992, and will continue until the position is filled. Please send nominations or application letter, along with three letters of recommendation and supporting material to: Dr. Eugene C. Loh, Chair, Search Committee, 201 James Fletcher Building, University of Utah, Salt Lake City, UT 84112. Phone: (801)581-5505 / FAX:(801)581-4801 / E-mail: loh@mail.physics.utah.edu

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

Amylin Pharmaceuticals, Inc. in San Diego, CA is a development stage pharmaceutical company working on products for diabetes and related metabolic disorders, initially based on amylin, a recently discovered pancreatic beta cell hormone (see Cooper et al., Biochemistry & Biophysics Acta (1989) 1014/275-58).

The Department of Process Development is currently recruiting for a staff scientist.

### ANALYTICAL PROTEIN CHEMIST

The selected candidate will have the responsibility for methods development and the purification of recombinant proteins, as well as expertise in analytical protein/peptide chemistry, and will have the opportunity to work closely with members of molecular biology and chemistry. Qualified candidates must have a M.S. or Ph.D. in Biochemistry/Chemistry and 5 to 8 additional years of industrial GMP experience in the analytical evaluation and purification of recombinant proteins.

Amylin Pharmaceuticals, Inc. offers a stimulating and challenging opportunity to participate in a new area of biomedical science, as well as an excellent benefits package which includes equity ownership participation. Please send your curriculum vitae and names and addresses of three references to: Ms. Audrey McGovern, Human Resources Administrator, Amylin Pharmaceuticals, Inc., 9373 Towne Centre Dr., Suite 250, San Diego, CA 92121, or FAX (619) 552-2212. Amylin Pharmaceuticals, Inc. is an Equal Opportunity Employer.
POSTDOCTORAL FELLOWSHIP. Immediate and 1 July 1992 openings for M.D., Ph.D. or D.V.M. in NINDS-funded training program. Programming includes senior investigators with interests in neuroscience, molecular biology, genetics, virology and immunology. Research will focus on cellular and/or molecular basis of degenerative diseases of the nervous system. Experience is on multiple sclerosis and the immunologic aspects of Alzheimer's, ALS, tissue injury and transplantation. Applicants must be citizens or permanent residents eligible for NIH Training Fellowship. U.S.C is an Equal Opportunity/Affirmative Action Employer. Interested applicants are encouraged to apply.

POSTDOCTORAL RESEARCH FELLOW
Research into the possible multifocal origin of human ovarian cancers. Involve the study of specific genetic alterations and mutations in surgically removed tumors and tissues from different anatomical sites using immunoperoxidase and alkaline phosphatase staining and molecular biology techniques including site of alteration cloning, cDNA hybridization, and DNA sequencing.

Requirements: Ph.D. in Anatomy. Three years experience in molecular biological research. Knowledge of immunology, experience in molecular biological techniques including frozen and paraffin sectioning, immunoperoxidase and alkaline phosphatase staining, tissue and cell culture techniques preferred. Must have a strong interest in ovarian biology and soft agar cloning. Excellent communication skills and independent work effort are essential. Strong interest and practical experience in ovarian biology and cell culture are required.

Salary: $20,000 to $25,000 per year for a 40 hour week. Please apply with two copies of a resume to:
Job Order #2100
P.O. Box 8966
Boston, MA 02114

POSTDOCTORAL RESEARCH ASSOCIATE position available in mid-March 1992 for Plant Molecular Biologist. The project involves the study of hormone-regulated expression of a gene(s) at the level of transcription. Research will involve the cloning and expression of a gene from Medicago sativa ssp. varia and its potential role in the development of model systems for cellular and molecular analysis of hormone signal transduction.

Requirements: Ph.D. in molecular biology with experience in molecular biology techniques and cloning. Must have experience with frozen tissue and plant tissue culture techniques.

Salary: $20,000 to $25,000 per year for a 40 hour week. Please apply with two copies of a resume to:
Job Order #2100
P.O. Box 8966
Boston, MA 02114

POSTDOCTORAL FELLOWSHIP. Immediate and 1 July 1992 openings for M.D., Ph.D. or D.V.M. in NINDS-funded training program. Programming includes senior investigators with interests in neuroscience, molecular biology, genetics, virology and immunology. Research will focus on cellular and/or molecular basis of degenerative diseases of the nervous system. Experience is on multiple sclerosis and the immunologic aspects of Alzheimer's, ALS, tissue injury and transplantation. Applicants must be citizens or permanent residents eligible for NIH Training Fellowship. U.S.C is an Equal Opportunity/Affirmative Action Employer. Interested applicants are encouraged to apply.

POSTDOCTORAL RESEARCH FELLOW
Research into the possible multifocal origin of human ovarian cancers. Involve the study of specific genetic alterations and mutations in surgically removed tumors and tissues from different anatomical sites using immunoperoxidase and alkaline phosphatase staining and molecular biology techniques including site of alteration cloning, cDNA hybridization, and DNA sequencing.

Requirements: Ph.D. in Anatomy. Three years experience in molecular biological research. Knowledge of immunology, experience in molecular biological techniques including frozen and paraffin sectioning, immunoperoxidase and alkaline phosphatase staining, tissue and cell culture techniques preferred. Must have a strong interest in ovarian biology and soft agar cloning. Excellent communication skills and independent work effort are essential. Strong interest and practical experience in ovarian biology and cell culture are required.

Salary: $20,000 to $25,000 per year for a 40 hour week. Please apply with two copies of a resume to:
Job Order #2100
P.O. Box 8966
Boston, MA 02114

POSTDOCTORAL RESEARCH ASSOCIATE position available in mid-March 1992 for Plant Molecular Biologist. The project involves the study of hormone-regulated expression of a gene(s) at the level of transcription. Research will involve the cloning and expression of a gene from Medicago sativa ssp. varia and its potential role in the development of model systems for cellular and molecular analysis of hormone signal transduction.

Requirements: Ph.D. in molecular biology with experience in molecular biology techniques and cloning. Must have experience with frozen tissue and plant tissue culture techniques.

Salary: $20,000 to $25,000 per year for a 40 hour week. Please apply with two copies of a resume to:
Job Order #2100
P.O. Box 8966
Boston, MA 02114

POSTDOCTORAL FELLOWSHIP. Immediate and 1 July 1992 openings for M.D., Ph.D. or D.V.M. in NINDS-funded training program. Programming includes senior investigators with interests in neuroscience, molecular biology, genetics, virology and immunology. Research will focus on cellular and/or molecular basis of degenerative diseases of the nervous system. Experience is on multiple sclerosis and the immunologic aspects of Alzheimer's, ALS, tissue injury and transplantation. Applicants must be citizens or permanent residents eligible for NIH Training Fellowship. U.S.C is an Equal Opportunity/Affirmative Action Employer. Interested applicants are encouraged to apply.

POSTDOCTORAL RESEARCH FELLOW
Research into the possible multifocal origin of human ovarian cancers. Involve the study of specific genetic alterations and mutations in surgically removed tumors and tissues from different anatomical sites using immunoperoxidase and alkaline phosphatase staining and molecular biology techniques including site of alteration cloning, cDNA hybridization, and DNA sequencing.

Requirements: Ph.D. in Anatomy. Three years experience in molecular biological research. Knowledge of immunology, experience in molecular biological techniques including frozen and paraffin sectioning, immunoperoxidase and alkaline phosphatase staining, tissue and cell culture techniques preferred. Must have a strong interest in ovarian biology and soft agar cloning. Excellent communication skills and independent work effort are essential. Strong interest and practical experience in ovarian biology and cell culture are required.

Salary: $20,000 to $25,000 per year for a 40 hour week. Please apply with two copies of a resume to:
Job Order #2100
P.O. Box 8966
Boston, MA 02114
Assistant Professor–Molecular Neurobiology
Institute of Neurological Sciences
University of Pennsylvania

Applications are invited for a tenure track position. The successful candidates will be expected to have several years of highly productive post doctoral research experience, be prepared to develop a vigorous independent research program in molecular neurobiology and participate in limited teaching of graduate and medical students. The successful candidate will have newly constructed laboratory space in the Institute of Neurological Sciences. Adjacent faculty in this space are involved in molecular studies of ion channels, optical measurements of excitable tissues, and molecular determinants of development. The Institute for Neurological Sciences includes more than 120 investigators located in many departments and provides a strong and diverse neuroscience community.

Applicants should submit a curriculum vitae including a list of publications and selected reprints, a short statement of past experience and future research plans, and ask three references to send letters to: Dr. Jon Lindstrom, Chairman of the Molecular Neurobiology Search Committee, Mahoney Institute for Neurological Sciences, Medical School of the University of Pennsylvania, 217 Steinermer Hall, 36th & Hamilton Walk, Philadelphia, PA 19104-6074. The University of Pennsylvania is an equal opportunity employer, and we encourage applications from qualified women and minorities.

STANFORD UNIVERSITY
RESEARCH ASSOCIATE POSITION IN X-RAY ABSORPTION SPECTROSCOPY AT SSRL

The Biotechnology Group at the Stanford Synchrotron Radiation Laboratory (SSRL) has an opening for a Ph.D. scientist with research interests and experience in x-ray absorption spectroscopy (XAS). SSRL has a vigorous program with a large user base in XAS using synchrotron radiation from the dedicated 3 GeV storage ring SPEAR. There are currently 5 dedicated or time-shared XAS hard x-ray stations on SPEAR, for which facilities have been developed for dilute protein XAS data collection (as well as for other materials applications). Each of these stations is computer-controlled by a VAXstation through CAMAC. The instrumentation provided includes solid state array detectors, LHe cryostats and other standard equipment. Extensive user support is given in the use of this instrumentation, experimental setup, training and advice. This includes support of the use of XAS data acquisition software and computer hardware. The RA will have the opportunity to participate in the further development of new instrumentation and techniques for XAS studies. Included are developments of advanced, computer-controlled multi-element solid state array detectors, time-resolved XAS spectroscopy, advanced methods for XAS data analysis, and XAS studies in the soft x-ray spectral region. SSRL offers an RA 50% of her/his time to pursue individual and/or collaborative research projects. Funds for materials/supplies and capital equipment, as well as staff support are available. Interested candidates should send a CV, a list of publications and the names and telephone numbers of three referees, together with a brief description of their research interests to Dr. Britt Hedman, SSRL, Stanford Linear Accelerator Center, P.O. Box 4349, M.S. 69, Stanford University, Stanford, California 94309, USA. Application deadline is February 1, 1992; however, early application is recommended since applications will be reviewed as received. For further information, contact Dr. Hedman at (415) 926-3052; Internet: Hedman@sls.L750. Stanford University is an equal opportunity, affirmative action employer.
POST-DOCTORAL SCIENTISTS

SmithKline Beecham Animal Health, a world leader in innovative research and development, has openings for Post-Doctoral Scientists to join its expanding animal biological research and development effort.

Research opportunities exist in virology, bacteriology, parasitology for immunologists, virologists, molecular biologists, biochemists and protein chemists.

Biological Research and Development is centered in Lincoln, NE with a team of immunoparasitologists and molecular biologists located in Philadelphia, PA. We are seeking post-doctoral scientists at both locations for two years, beginning January, 1992.

Philadelphia IMMUNOLOGIST

• Ph.D. in immunology with 2-3 years experience in isolation and characterization of immune regulatory functions.

• Strong background in biosresponse assays to measure immune regulatory response from vaccinated animals.

BIOCHEMIST

• Ph.D. in biochemistry with 2-3 years experience in isolation and characterization of parasite or host cell macromolecules.

• Strong background in receptor/ligand biochemistry.

• Experience in parasitology and molecular biology.

MOLECULAR CELL BIOLOGIST

• Ph.D. in molecular or cell biology with 2-3 years experience in cell growth differentiation.

• Strong background in molecular and cellular regulation of transcription and translation.

• Experience in utilization of microcarrier or suspension systems for cell line amplification.

Further information can be obtained from Dr. Timothy J. Miller at 215/276-7204. For confidential consideration, please send your CV and the names of three references to: Dr. Timothy J. Miller, SmithKline Beecham Animal Health, 709 Swedeland Road, L34, King of Prussia, PA 19406-0039.

Lincoln MOLECULAR BIOLOGIST

• Ph.D. in molecular biology, preferably with 2-3 years of experience in yeast expression.

• Experience in the development and application of analytical methods to track expressed proteins.

• Experience in the physicochemical characterization of expressed proteins.

VIROLOGIST (2 positions)

• Ph.D. in virology, preferably with 2-3 years experience in the molecular virology or immunology of coronaviruses or retroviruses.

• Experience in animal experimentation and cell culture.

• Experience in the development of immunoasays, both humoral and cellular, or the applications of PCR technology.

IMMUNOLOGIST/ MOLECULAR IMMUNOLOGIST

• Ph.D. in immunology or molecular immunology with 2-3 years of experience in the identification of protective immunogens of viral pathogens.

• Experience with both humoral and cell-mediated immune assays in animal models.

• Experience in antigen identification, characterization, purification and quantitation.

Further information can be obtained from Dr. Kevin Fahey at 402/473-2553. For confidential consideration, please send your CV and the names of three references to: Mr. Eric Erickson, SmithKline Beecham Animal Health, 601 West Cornhusker Highway, Lincoln, NE 68501-0809.

SmithKline Beecham Animal Health provides a stimulating and challenging work environment based on creativity, commitment, and teamwork. We offer an attractive compensation/relocation package and pollution-free environment.

SmithKline Beecham Animal Health
AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

IMMUNOCHEMIST, ANTIBODY PERFORMANCE ENGINEERING TEAM

The successful candidate will develop methods capable of effectively identifying, selecting, and characterizing the activity of engineered antibodies, and bio-synthetic receptors, along with conventional antibodies. Will be pivotal member of the project team.

Requires Ph.D. in Molecular Immunology or Immunochemistry, as well as a published record of accomplishment including state of the art assay methods. Must have 3 to 5 years experience utilizing a variety of immunoassay systems. Strong quantitative and analytical skills with mathematical and statistical background to address binding constant derivatization also needed. Industrial experience with immunoassay applications preferred. A working understanding of modern molecular biology techniques and their potential for antibody development and experience with recombinant-derived material would be a plus.

At Becton Dickinson, we offer highly competitive salaries, comprehensive benefits, and the stimulation of working in North Carolina's celebrated Research Triangle Park. For immediate consideration, please send your resume to: Human Resources, Becton Dickinson & Company Research Center, 21 Davis Drive, Research Triangle Park, NC 27709. AA/EEO Employer.

BE R EWA R D S O F DIS CO V E R Y

We'll Help You Build A New Lab

Let the free Science product information service put you in touch with the vendors whose products you will need.

Simply write us a letter stating the specifics about your proposed lab and the instruments and supplies you need. We will do the rest. Write to:

SCIENCE Magazine
New Lab Service Department
1333 H Street, N.W.,
Washington, DC 20005

The Global Network of Researchers
Associate Director
Immunology

Wyeth-Ayerst Laboratories, a major division of Fortune 100 American Home Products Corporation, is currently seeking an established investigator with expertise in cellular immunology or cell adhesion molecule research. The successful candidate will possess a proven track record of innovative research and will have a clear vision of future drug discovery opportunities in Immunology.

Build upon our success with rapamycin to develop and manage research efforts in immunosuppression, autoimmunity, and cell adhesion molecules. Collaboration with other investigators, and maintenance of an active presence in the scientific community will be expected.

Qualifications include a PhD in Immunology or a related medical science plus at least 8 years of postdoctoral experience. A strong publications record in leading journals and well-developed interpersonal and verbal/written communications skills are required.

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Our research laboratory is just minutes away from Princeton University and is convenient to many other cultural, educational and leisure activities. Please forward resume with salary requirements to: WYETH-AYERST RESEARCH, Personnel Manager, Position #379, CN 8000, Princeton, NJ 08543-8000. An equal opportunity employer, M/F/D/V responses encouraged. Principals only.

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CARDIOVASCULAR PHARMACOLOGY
Research Investigator

We seek candidates to establish in vivo models of thrombosis and thrombolysis, and aid in the discovery of novel antithrombotic agents. Requirements include a PhD in Pharmacology, Physiology or related discipline and a minimum of 2 years post-doctoral experience. Drug discovery experience is highly desirable. (Position # RS-79-91)

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MOLECULAR VIROLOGY
Research Scientist

We seek candidates experienced in virology, molecular biology and/or protein biochemistry to perform research on human viruses and assist in the development of screening assays for the discovery of new antiviral agents. Requirements include a BS in the Life Sciences and a minimum of 2 years related experience, or an MS. Laboratory experience in virology or molecular biology and experience in cell culture and radioisotope techniques are highly desirable. (Position # RS-75-91)

At Sterling Winthrop, you’ll enjoy a highly competitive salary and benefits package, including an attractive relocation program, and outstanding career growth opportunities. Additionally, our Rensselaer, NY facility will be relocating to a new state-of-the-art facility in Upper Providence Township, PA in approximately 1993. We invite you to share in the opportunities now and in the future. To be considered for these important opportunities, please send your resume to:

STERLING WINTHROP
Pharmaceuticals Research Division
A Division of Sterling Winthrop Inc.
A Subsidiary of Eastman Kodak Co.

(Position #)
Sterling Winthrop PRD
81 Columbia Turnpike
Rensselaer, NY 12144

Equal Opportunity Employer, M/F/D/V
POSITIONS OPEN

RESEARCH ASSOCIATE/POSTDOCTORAL. Positions in basic and clinical research. The Division of Nuclear Medicine and Molecular Imaging, collaborating with the Department of Molecular and Cell Biology and the Department of Pathology and Laboratory Medicine, is seeking one or more individuals to work in a lab that focuses on the development of targeted and innovative imaging and therapeutic agents for the treatment of cancer and other diseases. The successful candidate will have a Ph.D. or M.D. degree and significant experience in molecular biology, biochemistry, imaging, and/or immunology. Salary: $55,000 to $60,000, depending on experience. Please send CV and a brief description of research experience to: Dr. S. C. Jones, Department of Molecular and Cell Biology, UC Berkeley, 2240 Delta Hall, Berkeley, CA 94720-3217.

RESEARCH ASSOCIATE. Positions in basic and clinical research. The Division of Nuclear Medicine and Molecular Imaging, collaborating with the Department of Molecular and Cell Biology and the Department of Pathology and Laboratory Medicine, is seeking one or more individuals to work in a lab that focuses on the development of targeted and innovative imaging and therapeutic agents for the treatment of cancer and other diseases. The successful candidate will have a Ph.D. or M.D. degree and significant experience in molecular biology, biochemistry, imaging, and/or immunology. Salary: $55,000 to $60,000, depending on experience. Please send CV and a brief description of research experience to: Dr. S. C. Jones, Department of Molecular and Cell Biology, UC Berkeley, 2240 Delta Hall, Berkeley, CA 94720-3217.

POSTDOCTORAL SENIOR RESEARCH ASSOCIATE POSITIONS IN ELECTROPHYSIOLOGY and PHYSIOLOGY are available to investigators interested in a multidisciplinary approach to the regulation and neuro-modulation of receptor-operated ion channels. Research systems include the glutamate, GABA and glycine receptors. Some of the techniques in use are whole-cell, patch-clamp, and oocyte electrophysiology combined with molecular biology. Salary: $35,000 to $35,000. Send curriculum vitae and references to: Dr. H. Farb, Department of Pharmacology, Boston University School of Medicine, 80 East Concord St., Boston, MA 02118. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. Positions in basic and clinical research. The Division of Nuclear Medicine and Molecular Imaging, collaborating with the Department of Molecular and Cell Biology and the Department of Pathology and Laboratory Medicine, is seeking one or more individuals to work in a lab that focuses on the development of targeted and innovative imaging and therapeutic agents for the treatment of cancer and other diseases. The successful candidate will have a Ph.D. or M.D. degree and significant experience in molecular biology, biochemistry, imaging, and/or immunology. Salary: $55,000 to $60,000, depending on experience. Please send CV and a brief description of research experience to: Dr. S. C. Jones, Department of Molecular and Cell Biology, UC Berkeley, 2240 Delta Hall, Berkeley, CA 94720-3217.

RESEARCH ASSOCIATE. Stanford University/Primate Research Laboratory. Laboratory of Dr. X. Y. Z. Psychobiology. Ph.D. to help direct NIMH-supported laboratory studying behavioral and endocrinological aspects of mother-infant relationships in squirrel monkeys. Knowledge of behavioral and endocrinological methodologies is required. Send curriculum vitae and three references to: Dr. X. Y. Z., Department of Psychology, Stanford University, Stanford, CA. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. Requirements are a Ph.D. in basic medical science with a major in pharmacology and 2 years of experience in position or 2 years of diabetes research. Must have expertise to conduct research which would be published in scientific journals. Will serve as an independent investigator to develop a safe, non-inulin-dependent diabetic rat model of human pathophysiology, which would eventually address questions of clinical relevance to diabetes. Hours 9:00 a.m. to 5:00 p.m. Fourty hours per week. Salary $25,000 per calendar year. Apply or send résumé to: Mr. M. A. Albright, Alabama State Employment Service, P.O. Box 190399, Mobile, AL 36619 or apply at any Alabama Employment Service Office. Job Order #AL0625429. Equal Employment Opportunity.

RESEARCH ASSOCIATE. Stanford University/Primate Research Laboratory. Laboratory of Dr. X. Y. Z. Psychobiology. Ph.D. to help direct NIMH-supported laboratory studying behavioral and endocrinological aspects of mother-infant relationships in squirrel monkeys. Knowledge of behavioral and endocrinological methodologies is required. Send curriculum vitae and three references to: Dr. X. Y. Z., Department of Psychology, Stanford University, Stanford, CA. Equal Opportunity/Affirmative Action Employer.

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UNIVERSITY MEDICAL SCHOOL. ASSISTANT PROFESSIONAL. SENIOR RESEARCH ASSOCIATE. SECTION LEADER. Academic Appointment Possible. Experienced biochemist/cell biologist at University Medical School, H. H. Bligh Cancer Research Laboratory, is seeking a Research Associate to verify and establish carbohydrate working habits in deep-investigations of role in human carcinoma cell membrane glycoconjugates in tumor establishment. Technical and postdoctoral help is available. Salary approximately in view of the importance of the research task, not grant-dependent. Send curriculum vitae, details of bench-work expertise, and bibliography, to Dr. A. B. Fisher, College of Medicine, University of Illinois, Urbana, IL 61801. Equal Employment Opportunity, M/F.

AQUATIC ECOLOGIST/JOURNALIST. ILLINOIS NATURAL HISTORY SURVEY. The Center for Aquatic Ecology at the Illinois Natural History Survey invites applications from Ph.D.-level ecologists for an anticipated full-time, state-supported, faculty position as a research PROFESSIONAL SCIENTIST level. Possible research areas cover a broad range of freshwater systems from small streams and ponds to large rivers and the Great Lakes. The position is located in Champaign, Illinois laboratories, located at the University of Illinois, where many Survey scientists have academic affiliations. Candi- dates are expected to develop an aquatic field lab to initiate, perform, and obtain support for independent research. Postdoctoral experience preferred. Starting date: 1 June 1992. Please send curriculum vitae, statement of research interests and the names, addresses and telephone numbers of four references to: Ms. Jacqueline Sanders, Personnel Officer, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. For full consideration, applications should be received no later than 31 January 1992.

The Illinois Natural History Survey is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

IMMEDIATE OPENING for a PLANT SCIENTIST to support research and development activities related to the Controlled Ecological Life Support System Program. Ph.D. within 3 years of expected hire date. Salary: $50,000 to $55,000. Must be available to perform work during the week of July 4th. Contact: Dr. J. M. Kranz, 520 East Peabody Drive, Champaign, IL 61820. Equal Employment Opportunity Employer.

ASSOCIATE SCIENTIFIC STAFF. Ph.D. in molecular biology. Position in a laboratory that investigates the role of nuclear and cytoplasmic architecture and gene regulation in the control of cell proliferation. Excellent opportunities for growth and development in a rapidly changing environment. Send curriculum vitae and the names of three references to: Office of the Director, The Rockefeller University, 1230 York Avenue, New York, NY 10021. E.O.E.

ASSOCIATE SCIENTIFIC STAFF. Ph.D. in molecular biology. Position in a laboratory that investigates the role of nuclear and cytoplasmic architecture and gene regulation in the control of cell proliferation. Excellent opportunities for growth and development in a rapidly changing environment. Send curriculum vitae and the names of three references to: Office of the Director, The Rockefeller University, 1230 York Avenue, New York, NY 10021. E.O.E.

TECHNICAL STAFF—SUPERVISOR. Ph.D. in molecular biology. Position in a laboratory that investigates the role of nuclear and cytoplasmic architecture and gene regulation in the control of cell proliferation. Excellent opportunities for growth and development in a rapidly changing environment. Send curriculum vitae and the names of three references to: Office of the Director, The Rockefeller University, 1230 York Avenue, New York, NY 10021. E.O.E.

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TECHNICAL STAFF—PHYSICS. Ph.D. in nuclear physics. One year, 6 months of experience in job offered or 1 year, 6 months of experience as a postdoctoral in theoretical nuclear physics. Experience should include the understanding of isolation methods in connection to quantum chromodynamics; specifically study of quark confinement and dynamical chiral symmetry breaking in the framework of QCD. Rank 11 to 14 appropriate for this position. Contact: Dr. J. D. K. Kranz, 520 East Peabody Drive, Champaign, IL 61820. Equal Employment Opportunity Employer.
Director of Division of Comparative Medicine

Washington University in St. Louis, a nationally recognized center for biomedical research and training, is seeking a Director for its Division of Comparative Medicine.

Applicants (DVM) should be board-certified by ACLAM with administrative experience, have an appreciation for biomedical research, and the ability to interact with a large faculty with diverse research interests.

Washington University has committed to a major replacement and expansion of animal facilities to 134,000 NSF over the next five to seven years. The initial phase of construction will begin in the Spring of 1992. The Director will be expected to participate in the decision-making and planning for these facilities.

Currently, Washington University employs five veterinarians. A veterinary pathologist has recently been recruited, and a diagnostic research facility established. A postdoctoral training program has also been developed with two additional veterinarians in residence.

The Director will be expected to recruit appropriate veterinarians and support staff; strengthen our postdoctoral training program; and participate in the development of all other programs consistent with developing a high quality animal care and use program.

Applicants should submit curriculum vitae and four letters of reference to:

Theodore J. Cicero, PhD
Chairman, Veterinary Search Committee
Washington University Medical School
660 South Euclid Box 8025
St. Louis, MO 63110

Washington University is an equal opportunity/affirmative action employer.

Molecular Biologist

Institute for Biomolecular Science/Department of Biology
University of South Florida

The University of South Florida Institute for Biomolecular Science, an interdisciplinary consortium of University faculty and scientists, and the Department of Biology invite applications for a tenure-track position at the level of Assistant or Associate Professor. Candidates should have a Ph.D. and postdoctoral research experience in the area of eukaryotic molecular biology (plant or animal). This is one of four positions and an Endowed Chair that will be filled by the Institute over the next two years as part of a State-funded expansion program.

The position is funded through the Institute with academic appointments in the Department of Biology. Excellent laboratory facilities, start-up funds, and opportunities for collaboration are available. Title and salary (nationally competitive) will be commensurate with qualifications and experience. The successful candidate would be expected to establish a strong, externally-funded research program, to train graduate students at the Ph.D. level, and to teach an undergraduate course such as cell biology or general genetics and a graduate course in her/his area of specialty. The position offers an excellent opportunity for professional growth in an attractive living and working environment.

The University of South Florida is a comprehensive research and teaching university located in the Florida Gulf Coast area, a region of the State recognized for its rapid growth and high technology focus. Applicants should forward a letter of interest, curriculum vitae, reprints of representative recent publications, and statements of research and teaching interests.

Candidates should also arrange for three letters of recommendation to be forwarded. Deadline for receipt of applications, supporting documents, and letters is January 24, 1992. Address all materials and correspondence to: Dr. Gregory J. Stewart, Chairperson, Molecular Biology Search Committee, Institute for Biomolecular Science, LIF 126, University of South Florida, Tampa, Florida 33620-5150.

The University of South Florida is an Equal Opportunity/Affirmative Action Institution and encourages applications from minorities, women, and the handicapped. According to Florida law, application files and meetings to review applicant files are open to the public.

CANCER RESEARCH INSTITUTE INVESTIGATOR AWARDS

The Cancer Research Institute is planning to grant its Investigator Award to a minimum of five qualified immunologists in 1992. The award is $50,000 per year for four years. The funds may be used at the discretion of the recipient for salary, technical assistance, supplies, or capital equipment. The Cancer Research Institute does not provide funds for administrative overhead.

The deadline for receiving applications is March 1, 1992. Funding for the Investigator Awards will commence on July 1, 1992.

Candidates must hold a doctoral degree and work in the field of tumor immunology or general immunology. Eligibility is limited to scientists who will be in their first or second year as assistant professor (or equivalent rank) as of July 1, 1992. Please note that individuals who will begin their third year as assistant professor on July 1, 1992, are not eligible for the award. The Institute has no citizenship restrictions, and research supported by the award may be conducted anywhere in the United States or abroad, excluding private-sector for-profit laboratories.

For application details, please contact:

Ms. Lynne Harmer, Grant Administrator
Cancer Research Institute
133 East 58th Street
New York, NY 10022
212-688-7515

Novo Nordisk Fellowships in Enzyme Technology/Molecular Biology

The College of Agricultural and Environmental Sciences, University of California, Davis invites applicants for two graduate fellowships in enzyme technology/molecular biology to be funded by a grant from Novo Nordisk. The fellowship provides first-year funding of up to $20,000, including tuition and fees. Applicants must submit a completed application for Graduate Admission and Fellowship, a Novo Nordisk Fellowship application, a Statement of Purpose, GRE scores, official transcript, 3 letters of recommendation, and a departmental application, if required. Applicants are encouraged whose areas of research interest include: Food Science and Technology, Agricultural and Environmental Chemistry, Animal Science, Biochemistry, Enzymology, Microbiology. For further information and applications, contact:

College of Agricultural & Environmental Sciences
University of California
Davis, CA 95616 (916) 752-0107

Application deadline is January 15, 1992

UC Davis is an equal opportunity institution
POSITIONS OPEN

SENIOR SCIENTIST: Conduct exploratory research for new materials. Prepare, characterize, and perform applications tests on new materials. Projects include preparation of dendritic polymers, porous polymers, sensors, novel monomers, and photocative materials. Preparation and presentation of research. Requirements: Ph.D. in polymer chemistry with background in polymer synthesis and characterization, fabrication and testing of electronic and sensor devices, morphology and trace-gas analysis and monitoring. Must have outstanding academic background. Forty hours per week; $49,500 per year; curriculum vitae or résumé to: Dr. Barry Poling, Saint Francis Hospital and Medical Center, located in Hartford, Connecticut, is seeking a candidate to join our Department of Research and Heart Institute to establish a new program in vascular biology. Candidates should have completed a doctorate degree and a postdoctoral fellowship and have prior experience in molecular aspects of vascular cells. Candidate should have research experience in cardiovascular and hemostatic research. The University of Connecticut School of Medicine. Interested individuals should send a résumé and references to: Dr. Ernesto Caralis, Ph.D., postdoctoral fellowship, Saint Francis Hospital and Medical Center, 1141 Woodland Road, Hartford, CT 06105–1299. (Pre-employment drug testing) Equal Opportunity Employer/Participating Affirmative Action, M/F/D/V.

RESEARCH SCIENTIST: Must perform neuropharmacological, toxicological, biochemical, and physiological studies on the effects of new drugs on the brain. Must maintain and culture human and animal cells lines by somatic cell genetics; must maintain hybridoma cell lines in culture and cryostorage; must perform neurodegeneration of discrete lesions in mice brain to generate models for Parkinson's disease; culture and maintenance of three-dimensional reaggregate culture system; use of High Pressure Liquid Chromatography with Electrochemical Detection (HPLC/ED) to study Northern blot analysis and preparation of radioactive cDNA probes for Northern blot analysis and generation of cDNA probes using recombinant DNA technology in bacteria. Twenty-hour per week; 8:00 a.m. to 5:00 p.m.; $22,460 per year; overtime as needed. Must have M.S. in a biological science and 1 year of experience in the offered position or as research technician (in a neuropharmacological, toxicological, or physiological laboratory). Required experience must have included use of High Pressure Liquid Chromatography with Electrochemical Detection (HPLC/ED); use of radiolabeled mRNA using Northern blot analysis and preparation of radioactive cDNA probes for Northern blot analysis and generation of cDNA probes using recombinant DNA technology. Must have proof of legal authority to work permanently in the United States. Send two copies of résumé to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60605; Attention: Jack Schaffer, Ref. No. V-IL-4117-7. No calls. An employer-paid ad.

TECHNICAL STAFF—PHYSICS. Ph.D. in physics. Three years of experience in the job offered or three years of experience as a physics researcher. Research experience should include elementary particle physics, including high energy detector designs using Monte Carlo codes, algorithms, and physics analysis, high and low energy gamma particle transport, and benchmarking prototype experiments with the Monte Carlo codes. All of the above evidenced by five to ten publications in refereed scientific journals. Must be capable of contributing to the understanding and advancement of elementary particle physics by executing experimental research projects, specifically the design of and physics and calorimeter simulation of Super Collider detectors; software development and Monte Carlo simulation studies for detector design on the CRAT, VAX, IBM, and UNIX computers using simulation codes such as CALOR, EGS, PHITS, and GEANT. Areas of study in high energy physics include the development of computational algorithms for simulations and analyzing, analysis of test beam prototype experiments, and calorimeter performance. Salary: $3,550 per month; 40 hours per week; 9–5 p.m. Send résumé to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60605; Attention: Richard Weston, Reference #V-IL-3487-W. No calls. Must have proof of legal authority to work permanently in the United States. An employer-paid ad.

POSITIONS OPEN

MEDICAL PHYSICIST

Community Hospital seeks individual with M.S. in physics for progressive radiation therapy department equipped with linear accelerator, simulation unit, and a 3D treatment planning software. Experience in software knowledge of all aspects of brachytherapy, including iodine, cesium, and iodine. Computer treatment planning using the ROCS system. Starting Salary: $34,000. Position is open 8:00 a.m. to 4:30 p.m., hourly rate $22.72—salaried. Must have proof of legal authority to work permanently in the United States. Send résumé to: Illinois Department of Employment Security 401 South State Street—3 South, Chicago, IL 60605; Reference # V-IL-4051-R No calls. An employer-paid ad.

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BIOLOGY OF DISEASE VECTORS

14 June to 27 June 1992

COLORADO STATE UNIVERSITY

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This unique course introduces students to the biology of vectors of infectious diseases, emphasizing current molecular biological, genetic, biochemical, and physiological research. Important aspects of vector biology, including host-seeking, blood-feeding, organ structure-function, gene regulation, vector manipulation and containment, and control, will be covered and followed by in-depth analyses of selected major vector-borne diseases systems. Faculty are from the MacArthur Foundation Network on the Biology of Parasite Vectors.

The course is designed for advanced graduate students, postdoctoral fellows, and independent investigators. The course can be taken for college credit. Accommodations are located on the main campus of Colorado State University (CSU), near lecture and laboratory facilities. Vector-pathogen experimentation and demonstrations will be conducted in the containment facility of the Arthropod-borne and Infectious Diseases Laboratory (AIDL) of the CSU Foothills Campus.

Limited to 30 students. Enrollment is competitive. Financial aid is available. Application deadline is 28 February 1992. For information and application forms, contact: Dr. Barry Beatt (303-491-6794 or 491-8604), AIDL, Foothills Campus, Colorado State University, Fort Collins, CO 80523.

ANOUNCEMENTS

CALL FOR RESEARCH PROPOSALS

The Johns Hopkins Center or Alternatives to Animal Testing (CAAT) is soliciting proposals for the 1993–94 grants cycle. CAAT encourages the investigation of the fundamental knowledge needed to develop alternative methods to the use of whole animals for safety/hazard evaluation. Evaluation of new methods will be conducted in the containment system applicable to toxicity/efficacy evaluation. To apply, submit a one-page preproposal abstract (no specific format required) to: Ms. Joan Poling, 615 North Street, Baltimore, MD 21205; Telephone: 410-955-3193; FAX: 410-955-0258. If the preproposal is accepted, investigators will be invited to submit a full proposal and will receive application preparation guidelines. Deadline for submission of abstracts is 13 March 1992.

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