The Department of Anatomy, Wright State University Medical School, invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level. The applicant should have a Ph.D., M.D., or equivalent degree with postdoctoral experience in neurobiology. Preference will be given to individuals with research experience in neuroendocrinology using contemporary cellular or molecular approaches. The candidate will be expected to carry out an active research program and attract extramural funding. Primary teaching responsibility will be in neuroscience. Women and minorities are encouraged to apply. Applications should be postmarked by December 15, 1990 to:

John C. Pearson, Ph.D., Chair, Search Committee
Department of Anatomy
Wright State University School of Medicine
Dayton, OH 45435

Wright State University is an Equal Opportunity/Affirmative Action Employer.
ASSISTANT PROFESSOR OF BIOLOGY. Applications are invited for a tenure-track position to begin September 1, 1990. Preference will be given to candidates with expertise in the molecular biology of prokaryotes. Teaching responsibilities will include genetics, at least one advanced course in area of specialization, and participation in curriculum development. An applicant must be able to demonstrate a strong commitment to excellence in teaching. The University of Toledo has an Equal Opportunity/Affirmative Action Employer. Application deadline is November 15, 1990. Send application, curriculum vitae, statement of teaching and research interests, and names of three references to: Dr. Carolyn N. Rutledge, Department of Biology, Kalamazoo College, Kalamazoo, MI 49007. Review of applications will begin 1 November 1990. Kalamazoo College is an Equal Opportunity/Affirmative Action Employer. Kalamazoo College is committed to diversity and particularly encourages women and minorities to apply.

ASSISTANT PROFESSOR/BIOCHEMISTRY

Applications and nominations are invited for the position of assistant professor (tenure track) in the Department of Chemistry at The University of Toledo. A Ph.D. in chemistry or a closely related field is required. An applicant must also demonstrate a strong commitment to excellence in teaching chemistry and biochemistry at the undergraduate and graduate levels. An applicant must have a curriculum vitae, a list of publications, a brief statement of research interests, and names of three references. The University of Toledo is an Equal Opportunity/Affirmative Action Employer. Assistant professor positions will be available beginning August 1990. Apply to: Professor Max D. Funk, Department of Chemistry, University of Toledo, 2801 West Bancroft Street, Toledo, OH 43606. Applications should also include three letters of recommendation. Applications will be accepted until 1 November 1990 or until a qualified candidate has been identified. The University of Toledo is an Equal Opportunity in employment by Affirmative Action.

TWO ASSISTANT PROFESSORS

University of South Florida. Two tenure-track positions beginning 15 August 1991. Ph.D. in geography required. Candidates must have strong commitments to research, publications, and seeking external funding as well as to undergraduate and graduate teaching. Preferred specializations include physical (particularly digital terrain modeling, geomorphology), human (especially urban or political), and historical (cultural/historical analysis, remote sensing, GIS). Supporting regional speciality highly desirable. Salary competitive. Application deadline is 1 November 1990. Submit curriculum vitae, letters of recommendation, and three letters of reference to: Dr. Robert M. Ascher, Department of Geography, SOC 107, University of South Florida, Tampa, FL 33620-8100.

ASSISTANT PROFESSOR, DIVISION OF BIOLOGICAL SCIENCES. Candidates for this tenure-track faculty position in the division include (i) cellular, molecular, genetic, and developmental biology; (ii) population biology, ecology, and evolutionary theory; and (iii) physiology, behavior, and neurobiology. The University of Arizona is an Equal Opportunity/Affirmative Action Institution. Women and minorities are encouraged to apply. According to Arizona law, applications and meetings regarding same are open to the public.

ASSISTANT PROFESSORSHIP. The Department of Chemistry and Biochemistry of the University of Texas at Dallas is seeking applications for a tenure-track assistant professorships anticipated to be available September 1991. Exceptional candidates in all areas of chemistry/biochemistry will be considered. Candidates who have proposed research programs showing promise in teaching should forward curriculum vitae, short descriptions of research plans, and three letters of recommendation by 14 December 1990 to: Dr. J. Robert K. Gilpin, Chairman, Department of Chemistry, Kent State University, Kent, OH 44242. Equal Opportunity/Affirmative Action Employer.

ENIRONMENTAL MICROBIOLOGIST TENURE TRACK

The Department of Biological Sciences, University of Cincinnati, has an opening for an environmental microbiologist at the ASSISTANT PROFESSOR level starting 1 September 1991. The university, a comprehensive state university, has an enrollment of about 36,000 students. The department has 30 full-time faculty, and is expanding its research program in environmental microbiology as well as environmental and evolutionary biology. There are about 70 graduate students, 65% are Ph.D. students. We seek a person who is studying the mechanisms of biodegradation of environmental pollutants, with an emphasis on physiologically and/or molecular techniques, as well as having a strong interest in bioenergetics and/or fermentation technology. The successful candidate will be expected to develop a vigorous, externally funded research program, train graduate students, and teach graduate as well as undergraduate courses in microbiology and/or applied microbiology. The position requires a Ph.D. and postdoctoral experience is preferred. Applicants should submit a description of their research interests, future research program, and qualifications and arrange to have three letters of evaluation sent to: Dr. J. Robie Vestal, Environmental Microbiology Search Committee, Department of Biological Sciences, University of Cincinnati, OH 45221-0006 by 1 November 1990.

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

ASSISTANT PROFESSOR

The Division of Toxicology at the University of Arkansas for Medical Sciences invites applicants for two tenure-track positions at the rank of assistant professor. Applicants must have a doctoral degree, postdoctoral experience, and the ability to develop an independent research program with each initial funding. Research emphasis should be in toxicology or a closely related discipline.

Applications are invited from qualified individuals possessing a Ph.D., M.D., or comparable doctoral degree with postdoctoral experience. Although preference will be given to applicants with a funded research program in neuropharmacology (e.g., signal transduction), the position is open to individuals with an interest in any aspect of pharmacology. Women and minorities are encouraged to apply. Send a curriculum vitae, research statement, and three letters of recommendation to: Dr. John Driscoll, Division of Toxicology, University of Arkansas for Medical Sciences, 4301 West Markham Street, Little Rock, AR 72205, by 30 November 1990. The University of Arkansas for Medical Sciences is an Equal Opportunity Employer. Qualified women and minorities are encouraged to apply.
ASSISTANT PROFESSOR/MEDICAL MICROBIOLOGY.

Tenure-track position September 1991. Undergraduate medical microbiology and a graduate course in area of expertise. Productive research, pursuit of outside research support, and supervision of M.S. and Ph.D. students required. Ph.D. required. Experience preferred, teaching experience desirable. Send curriculum vitae, statement of research goals, and three letters of reference to: Microbiology Search Committee, University of Mississippi Medical Center, Jackson, MS 39216. Closing date is 31 January 1991.

NEUROSCIENCE.

University of California, Santa Barbara (UCSB). The Department of Psychology announces a tenure-track position at the ASSISTANT PROFESSOR level in neuroscience, effective fall of 1991. Responsibilities include teaching at both undergraduate and graduate levels and supervision of students in research. Ph.D. required at time of appointment. Postdoctoral research experience is desirable. Applicants should have demonstrated interest and experience in neuroendocrine/neuroendocrinology and behavior desired. Potential area of interest within the broad field of neuroendocrinology/neuroendocrinology include neural control of endocrine secretions, the effects of hormones on the nervous system and/or physiology and behavior, hormones of the brain or psychoneuroimmunology. Evidence of excellence in teaching and research is required. Salary and level depend on qualifications. Submit curriculum vitae and arrange for three letters of reference to: Neuroendocrinology Search Committee, Department of Psychology, University of California, Santa Barbara, CA 93106. Application deadline is 15 December 1990. UCSB is an Equal Opportunity/Affirmative Action Employer. Proof of U.S. citizenship or eligibility for U.S. employment will be required prior to employment (Immigration Reform and Control Act of 1986).

ASSISTANT PROFESSOR/BIOCHEMISTRY.

Applicants are invited for a tenure-track position of assistant professor in biochemistry. Preference will be given to applicants working in molecular/biochemistry or genetics or protein structure-function relationship as determined by in vitro mutagenesis or nuclear acid structure-function relationship. Despite these preferences, applications from individuals having other research interests and expertise are encouraged. Applicants who should have the Ph.D. and postdoctoral experience in biochemistry or a related field, will be expected to develop and assist with funded research programs and to participate in the undergraduate and graduate teaching programs of the department. Normal teaching assignments will be one semester lecture or laboratory course per academic year. Applications should include curriculum vitae, copies of publications, graduate and undergraduate transcripts, and a brief statement of current research interests. Three letters of reference should be sent from people acquainted with the applicant's research and teaching ability, should be asked to send letters of reference. Review of applications will begin in September 1990; interviews will be scheduled in late fall of 1990. Inquiries and applications should be directed to: Dr. James B. Blair, Head, Biochemistry Department, 454 P. L. Oklahoma State University, Stillwater, OK 74078-0454. Telephone: 405-744-6189; FAX: 405-744-8339.

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

ASSISTANT/ASSOCIATE PROFESSOR.

The Department of Botany and Plant Pathology, Michigan State University, is seeking applicants for a 12-month, tenure-track position in the area of quantitative epidemiology, ecology, and statistical procedures in plant pathology, biostatistics, and ecological modeling. Areas of interest include soil or fowl host-parasite diseases, pest management, and plant resistance to fungicide resistance, and model development and application. Cooperative development of interdisciplinary research and teaching in these areas is encouraged. Minimum requirements include a Ph.D. in plant pathology or closely related field. Send resume, summary of research/teaching experiences and goals, and three letters of reference to Dr. Patrick Hart, Department of Botany and Plant Pathology, Michigan State University, East Lansing, MI 48824. Closing date for applying is 1 November 1990.

VISITING ASSISTANT PROFESSOR.

Position involves teaching undergraduate courses and active participation in ongoing research projects on the regulatory gene expression. The candidate will be responsible for establishing independent research program. Applicants must have a Ph.D. in biochemistry or related biological fields. Experience in teaching, research, and administration required. Send curriculum vitae and names of three references by 15 September 1990 to: Visiting Assistant Professor Search Committee, Department of Biology, Iowa State University, Ames, IA 50011. Closing date is 31 August 1990.

CROP PRODUCTION PHYSIOLOGIST.

Tenure-track ASSISTANT, ASSOCIATE, OR FULL PROFESSOR; 80% research, 20% teaching. Development of research in the physiological processes that relate to crop production. Training and experience with modern physiological and biochemical techniques and approaches is essential as well as competence in basic crop physiology. Developing undergraduate/graduate course dealing with contemporary research approaches in crop physiology. Send resume, transcripts, brief statement of future applied research, copies of selected publications, and three letters of reference by 1 January 1991 to: Dr. Brian Larkins, Department of Plant Sciences, University of Arizona, Tucson, AZ 85721. Equal Opportunity/Affirmative Action Employer.

BIOLOGICAL OCEANOGRAPHY.

SCIPP S INSTITUTION.

Applications are invited for ASSISTANT, ASSOCIATE or FULL PROFESSORIAL positions (tenure-track/tenured); rank, level and salary commensurate with qualifications and experience. Candidates must be citizens of the United States; couples are encouraged to apply. The Scripps Institution of Oceanography, 9500 Gilman Drive, La Jolla, CA 92037-0288. Closing date for applications is 15 November 1990. An Equal Opportunity/Affirmative Action Employer.

HARVARD MEDICAL SCHOOL.

CENTER FOR BLOOD RESEARCH.

Applications are invited for ASSISTANT/ASSOCIATE PROFESSOR positions in 1991 and 1992. We are seeking candidates with strong potential for innovative research broadly relevant to the cell and molecular biology of blood cells, the immune system, or disease processes. Topics of interest include cell-cell interactions, receptors and signaling pathways, cell activation, migration, and localization, the cytokine network, inflammation, molecular genetics, and virology.

Successful candidates will receive a faculty appointment in an appropriate department in Harvard Medical School and will be expected to establish an outstanding research program. The position offers significant scholarly and scientific resources and the opportunity to teach medical and graduate students. The center will soon occupy space in a new building on the medical school campus. Applicants should submit curriculum vitae, reprints of publications, a brief statement of present and future research plans (no more than 500 words), and the names of three references to:

Professor Timothy Springer, Vice President for Research, 770 Huntington Avenue, Boston, MA 02115.

DEVELOPMENTAL NEUROBIOLOGIST.

UNIVERSITY OF PENNSYLVANIA.

The David Mahoney Institute of Neurological Sciences (DIS) of the University of Pennsylvania is recruiting a Developmental Neurobiologist at the rank of ASSISTANT OR ASSOCIATE PROFESSOR. We are seeking candidates with evidence of a strong system development at the molecular or cellular levels in invertebrate or vertebrate systems. The INS has over 110 members and has several excellent laboratories working on molecular, cellular, and biochemical aspects of neural development and regeneration. Applicants should send their curriculum vitae, a brief description of their research interests, and names of three references to: Robert L. Barchi, M.D., Ph.D., Developmental Search Committee, David Mahoney Institute of Neurological Sciences, University of Pennsylvania, Education Building, University of Pennsylvania, Philadelphia, PA 19104-6074. Equal Opportunity/Affirmative Action Employer.

CHAIRPERSON.

DEPARTMENT OF BIOLOGY.

The University of Miami is searching for a highly qualified individual for chairperson of the department. Candidates should have an active research program, demonstrated administrative skills, and an ability to facilitate the integration of research and teaching interests. The department includes 21 faculty and has an established graduate program leading to the Ph.D. Seven full-time and 12 part-time graduate students. The department has several teaching/learning opportunities for collaboration. Candidates should submit curriculum vitae and the names of four references to: Search Committee, Department of Biology, University of Miami, P.O. Box 249118, Coral Gables, FL 33124. Deadline for application is 1 November 1990 or until the position is filled. An Equal Opportunity/Affirmative Action Employer.

CHEMIST, SYNTHETIC ORGANIC.

Responsible for design and synthesis of haptens and hapten protein conjugates; synthesis of dyes, enzyme substrates, enzyme inhibitors, and protein and enzyme characterization. Must have Ph.D. in Biochemistry or related chemistry with at least 2 years of postdoctoral experience. Must have extensive knowledge of synthetic organic chemistry and in vitro methods of studying hapten-antibody interactions. Must be familiar with HPLC, G.L.C., N.M.R., UV, and I.R. instrumentation. Must have experience in the planning and execution of synthetic procedures. Salary: $44,512 per year. Job site: Palo Alto, California. Send this ad and your resume to: Job Order #WS18172, P.O. Box 9560, Sacramento, CA 95823-0560, no later than 6 October 1990.

PERSONNEL PLACEMENT ADS in our line classifieds columns can be boxed for higher visibility. Call SCIENCE at 202-323-6655 for details.
DIRECTOR
THE DERALD RUTTENBERG CANCER CENTER
THE MOUNT SINAI MEDICAL CENTER

Applications are invited for the position of Director of the recently established Derald Ruttenberg Cancer Center at The Mount Sinai Medical Center. This position carries the status equivalent to a department chairman. Mount Sinai, with a tradition of excellence in clinical practice, teaching, and medical research is reorganizing its cancer research activities into an institution-wide Cancer Center.

We seek a leader trained as a physician, but whose professional prominence has been achieved as a scientist. Applicants should have a very active research program of major dimensions and an established international reputation for scholarly research. The Director will be expected to pursue his/her research interests and shape cancer research programs as a whole through new faculty recruitment, the establishment of core research facilities, and by institution-wide educational programs. The candidate must have the vision and leadership skills necessary to enhance the quality of, and interaction between, basic science and clinical programs and integrate Cancer Center programs with those of the other Departments. The Mount Sinai Medical Center is committed to an expansion of its clinical and basic science cancer programs and intends to devote extensive resources to this endeavor.

Applications or nominations should be addressed to: Dr. Robert A. Lazzarini, Chairman, Ruttenberg Cancer Center Search Committee, Brookdale Center for Molecular Biology, Box 1128A, Mount Sinai School of Medicine, New York, NY 10029-6547.

Mount Sinai is an Equal Opportunity/Affirmative Action Employer.

RESEARCH OPPORTUNITIES
IN BIOTECHNOLOGY

The BOC Group, an innovative world leader in health care products, has a challenging career opportunity at our state-of-the-art Technical Center located in Murray Hill, New Jersey.

The successful candidate will join a group working with growth factors and peptide hormones. This position requires a BS/MS degree and two plus years of academic or industrial experience in cell and molecular biology. Experience in cell culture techniques and basic recombinant DNA methodologies is essential.

BOC offers a challenging and stimulating scientific research career environment with the opportunity to interact with scientists from many disciplines. We provide an excellent compensation and benefits package. For prompt, confidential consideration, please forward your resume with salary requirements to: The BOC Group Technical Center, Human Resources Box E. M., 100 Mountain Avenue, Murray Hill, NJ 07974. We are an equal opportunity employer M/F/H/V.

THE BOC GROUP

Technical Center
PROFESSOR OF GEOSCIENCES
PURDUE UNIVERSITY

The School of Science at Purdue University has established a dedicated research facility for accelerator mass spectrometry (AMS) with the capability to analyze the following cosmogenic radionuclides: 39Ar, 40Ca, 41Ca, 47Ca, and 129I. Funding is in place to support the operation of this facility and to initiate research programs.

Purdue University's Department of Earth and Atmospheric Sciences seeks a distinguished faculty member at the associate or full professor level with a particular interest in research using cosmogenic radioisotopes to study terrestrial processes and events. In addition, we encourage applications for visiting professorships of 1- to 2-year duration. A successful applicant will have a Ph.D. in the geosciences and an established record of excellence in basic scientific investigation of geoscience problems.

Please send vita to:
Professor Steven J. Fritz
Department of Earth and Atmospheric Sciences
Purdue University
West Lafayette, Indiana 47907 USA

Screening will continue until the position is filled.

Purdue University is an affirmative action/equal opportunity employer.

DIRECTOR
Biotechnology Program

Cornell University invites applications for the position of Director of the Biotechnology Program. The Program, established in 1985, is funded by industry, state, federal and Cornell sources. The directorship is a half–time administrative appointment. Additionally, the Director must be qualified to be appointed to a tenure–track position in a department consistent with his/her expertise. The Director should be internationally recognized in an area related to biotechnology. Experience in agricultural science is desirable, and demonstrated administrative, management and leadership skills are essential. Continuation of an active research and teaching program is expected.

The Director is the major spokesperson for biotechnology at Cornell, with liaisons to faculty, external agencies, alumni and the public, overseeing a program with a current annual operating budget of $4.5 million. In collaboration with the Program's Scientific Administrative Board, the Director determines program goals and focus, funds research grants on specific projects, is responsible for raising and maintaining funds for the Program and interacts closely with its current sponsors.

A competitive salary with fringe benefits is offered. Applications, nominations and requests for further information will be held confidential and should be directed to: Dr. Norman R. Scott, Vice President for Research and Advanced Studies, Cornell University, 314 Day Hall, Ithaca, NY 14853. Telephone (607) 255–7200. Applications will be evaluated starting November 1, 1990. The position will be available July 1, 1991.

Cornell University is an equal opportunity/affirmative action employer.

MOLECULAR GENETICIST

The Department of Molecular Genetics of The Ohio State University is initiating a search to fill three tenure track positions. It is anticipated that one of these positions will be shared with the Ohio State Biotechnology Center. These positions may be filled at the Assistant Professor level or at more advanced levels. We are particularly interested in applicants with research interests in molecular genetics and molecular biology. However, highly qualified applicants with research specialties within the broader mandate of our unit will also be considered seriously. A highly competitive recruiting package is available, including an attractive (hard money) salary, generous laboratory space, substantial funds for equipment purchase and funds for initial operating expenses, independent of extramural grant support. The Department and The Ohio State University are in the process of a major expansion in Molecular Biology and Biotechnology, and a substantial number of additional positions are anticipated in the future. Women and members of minority groups are enthusiastically encouraged to apply.

The Ohio State University is the flagship institution of the state's higher education system. It is located in the state capital, Columbus, which is a growing, yet highly affordable, metropolitan area of about 1.3 million people. Columbus has been ranked by Newsweek as one of the country's best places to live and work.

Applications should include a detailed curriculum vitae, a description of current research experience, a statement of the nature of the planned independent research program, and the name, address and telephone number of each of four scientists who have agreed to serve as references. Applications will be accepted until suitable candidates are hired but recruiting is scheduled to begin in earnest by November 1990.

Information about our Department can be obtained by calling our offices at 614-292-8084.

THE OHIO STATE UNIVERSITY

GENSIA PHARMACEUTICALS, INC. is designing and developing drugs for treatment and diagnosis of cardiovascular and CNS diseases. Continued growth has created openings in Research and Development.

RESEARCH - Candidates should have a BS/MS/PhD in pharmacology, biochemistry, chemistry, or related field with skills or training in
- enzyme purifications and drug screening
- cell biology and platelet function
- isolated organ and tissue pharmacology
- in vivo pharmacology models
- medicinal chemistry

DEVELOPMENT - Candidates should have a BS/MS in the life sciences and experience in
- designing, implementing, monitoring and reporting of clinical trials

Gensia offers competitive salary and benefits including incentive stock options. For consideration, please send a resume with cover letter to Human Resources Dept., Gensia Pharmaceuticals, Inc., 11025 Roselle St., San Diego, CA 92121-1204.
**Director Center for Drug Targeting and Analysis**

Northeastern University is establishing a new center for Drug Targeting and Analysis within the College of Pharmacy and Allied Health Professions. The University is located in the center of the Boston medical and biotechnology research community and will establish strong collaborative ties with clinicians and researchers in the area. Applications and nominations are invited for a full time director of the Center. This position also carries a senior faculty appointment in the College of Pharmacy and Allied Health Professions. The successful applicant shall have a Ph.D. in pharmacology or in a related discipline. An excellent record of scientific productivity and grantsmanship is essential. Experience in the pharmaceutical industry is desirable. The director will be expected to develop a strong research program with external support. He/she will have responsibility for the scientific and fiscal development of the center.

Applicants should submit a current vitae and the names of three references by November 30, 1990 to:

Mehdi Boroujerdi, Ph.D.  
Associate Dean and Director of Graduate School  
College of Pharmacy and Allied Health Profession  
Northeastern University  
Boston, MA 02115

Northeastern University is an equal opportunity/affirmative action employer.

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**DERMATOLOGY**

**Postdoctoral Research Associates**

**Molecular Biologists/Biochemists**

Hoffmann-La Roche, an established leader in the pharmaceutical industry, has two excellent opportunities in our Dermatologies Division, which has ongoing programs related to acne, psoriasis, skin photaging and hair growth.

**PHOTODAMAGE**

You will have the opportunity to apply methods of recombinant DNA technology to problems involving the action of retinoids on the repair of photodamaged skin. Qualifications include a Ph.D. in Biochemistry, Cell Biology or Pharmacology. Demonstrated expertise in molecular biological techniques along with a working knowledge of the biochemistry and physiology of skin desirable.

**HAIR GROWTH**

You will participate in studies on the regulation of keratinocyte growth and differentiation with the aim of understanding the regulation of hair growth at the biochemical level. Qualifications include a Ph.D. in Biochemistry/Cell Biology. Experience in the areas of signal transduction and the regulation of cellular proliferation would be desirable, but not essential.

Roche offers a research environment encouraging scientific growth. Interested individuals should send a curriculum vitae indicating past, current and future research interests, to: Mrs. Jane Jusinski, Roche Dermatologics, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

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**FACULTY POSITION**

**DEPARTMENT OF PHYSICAL THERAPY**

**FACULTY OF REHABILITATION MEDICINE**

**UNIVERSITY OF ALBERTA**

Applications are invited for two full-time tenure track appointments, one of which is in the area of geriatrics, in the Department of Physical Therapy, University of Alberta, for July 1991. The University of Alberta offers BSc and MSc degrees in Physical Therapy. Qualified candidates should possess a doctorate degree. A physical therapy background would be an asset. Salary will be commensurate with qualifications and experience (Assistant Professor: $36,910 – $53,374; Associate Professor: $45,694 – $67,658).

Responsibilities include undergraduate and graduate teaching, research and scholarly work, and administrative duties.

Qualified applicants should send a curriculum vitae, state their teaching and research interests, together with the names of three referees to:

Prof. Sharon Brimnell  
Acting Dean  
Faculty of Rehabilitation Medicine  
3073 UAH Education & Development Centre  
University of Alberta  
Edmonton, Alberta  
T6G 2B7

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

The deadline for receipt of applications is January 31, 1991.
POSITIONS OPEN

SMIT PROFESSOR OF CELL BIOLOGY
CALIFORNIA INSTITUTE OF TECHNOLOGY

The Biology Division at the California Institute of Technology seeks to fill the new Howard Smid Chair in Cell Biology. We are defining broadly, the laboratory environment that will pass investigators taking biochemical, biophysical, ge- netic, immunological, morphological, and structural ap- proaches. Individuals interested in the position should submit curriculum vitae to: Cell Biology Search Committee, c/o Paul H. Patterson, Biology Division, 216-76, California Institute of Technology, Pasadena, CA 91125. Applications from women and minority candidates are especially encouraged.

Harvard University: The Department of Linguistics invites inquiries from persons qualified for appointments to a FULL PROFESSORSHIP. The candidate should be a theoretical linguist with a specialty in either phonol- ogy or syntax. Successful candidates will be given an interest in teaching in other related departments. The possibility of joint appointments exists for suitable can- didates. A curriculum vitae and the names of potential referees should be sent by 30 November 1990 to: Brendan Maher, University Hall 17, Harvard University, Cambridge, MA 02138. Applications from women and minorities are especially welcome. Harvard University is an Affirmative Action/Equal Opportunity Employer.

CURATORSHIP
MOLECULAR SYSTEMATICS
AMERICAN MUSEUM OF NATURAL HISTORY

The American Museum of Natural History invites applicants for a tenure-track curatorial position in molecular systematics. The museum possesses suitable labora- tory facilities and is a major center of systematics in the world. Applicants may be in any area of molecular systematics. Research in molecular systematics will complement the museum's existing research program which seeks both to analyze relationships among fossils and recent taxa, and to elucidate aspects of the evolutionary process. Successful candidate will participate as well in curatorial functions, including collections management, exhibition, and museum's administration. Position is available beginning 1 July 1991. A Ph.D. or equivalent is required. Rank and salary will be determined based upon qualifications and experience.

Applicants should forward (i) a statement of research interests and goals, (ii) curriculum vitae, (iii) complete bibliography, and (iv) names, addresses, and telephone numbers of at least three references familiar with the applicant's qualifications and accomplishments. Applications must be submitted no later than 15 October 1990 to: Mr. Lee Vilenski Personnel Department (S) American Museum of Natural History Central Park West 77th Street New York, NY 10024 An Equal Opportunity Employer.

The Delaware Museum of Natural History invites applications for an ASSISTANT CURATOR IN MALACOLOGY. Responsibilities include departmen- tal administration, conduction of collection-oriented re- search on molluscan systematics, participation in collec- tion management, and the museum's public programs. Applicants must have a doctorate or equivalent experi- ence. Curatorial experience desired. Position available immediately. Submit résumé, names of three references, brief statement of research goals, and reprints by 31 October 1990 to: Chair, Search Committee, Delaware Museum of Natural History, P.O. Box 3937, Wilm- ington, DE 19807.

ENVIRONMENTAL SPECIALISTS

Limnologists, wetland and estuarine ecologists, envi- ronmental scientists. The St. Johns River Water Manage- ment District has current and projected openings in applied research and research management for surface water restoration and preservation programs. Starting salaries and commensurate with both experience. Master's or Ph.D. preferred in limnology, ecology, biology, or re- lated environmental science. Send résumé identifying source of position to Mrs. N. M. Ebbert, St. Johns River Water Management District, Office of Em- ployee Relations, P.O. Box 1429, Palatka, FL 32178-1429. An Equal Opportunity/Affirmative Action Employer, veter- ans preferred.

POSITIONS OPEN

LABORATORY DIRECTOR
ENVIRONMENTAL MONITORING SYSTEMS LABORATORY, OFFICE OF MODELING, MONITORING SYSTEMS, AND QUALITY ASSURANCE
LAS VEGAS, NEVADA

The U.S. Environmental Protection Agency (EPA) is seeking qualified candidates for the position of laboratory director, Environmental Monitoring Systems Laboratory, Las Vegas, Nevada (EMSL-LV), Office of Monitoring, Modeling, and Quality Assurance (OMMQA). The EMSL-LV, a component of the Office of Research and Development, is responsible for research and development programs relating to human and ecosystem exposure to environ- mental pollutants. The laboratory conducts re- search and development in the areas of: analytical chemistry, immunochromogen, field monitoring methods and design, ecological status and trends, terrestrial ecology, integrated human ex- posure assessment, human biomarkers of expo- sure, remote sensing, geohydrology, and envi- ronmental radiation monitoring.

Applicants for this Senior Executive Service (SES) position must have a bachelor's or higher degree in life sciences, physical sciences, or engi- neering, or a field relating to the work of the laboratory, and professional experience demon- strating leadership and technical competence in one of those fields. Applicants must also meet the technical and executive qualifications described in the Vacancy Announcement. For a copy of the Vacancy Announcement, call: Chaunta Gladney Environmental Protection Agency Executive Resources and Special Programs Division Room M3910 (Mail Code: FM-224) 401 M Street, S.W. (Waterside Mall) Washington, DC 20060 Telephone: 202-382-3328 Applications must be postmarked by 6 Novem- ber 1990. EPA is an Equal Opportunity Employer.

ASSOCIATE DEAN AND PROFESSOR OF BI- OLOGICAL SCIENCES. To chair the recently formed Division of Biological Sciences. The division integrates the areas of experimental biology, agricultural science, and zoology and offers B.S., M.S., and Ph.D. degrees in these fields. The 40 faculty have an ongoing commitment to undergraduate and graduate education, research and search, and service. Nomination is solicited. Applicants must have a doctoral degree in a biological science, successful research, administrative and teaching experience ability to develop and strengthen the division. Send curriculum vitae, statement of career goals, and names, addresses, and telephone numbers of five references to: Associate Dean Search Committee, Division of Biological Sciences, University of Montana, Missoula, MT 59812. Review begins 50 November 1990 and continues until the position is filled. The University of Montana is located in Missoula, a cosmopolitan Rocky Mountain community of 80,000. The city has often been singled out in national polls as one of the best places to live in the United States. Abundant recreational opportunities in surrounding state and national forests and nearby Glacier National Park comprise the surrounding atmosphere. An Affirmative Action/Equal Opportunity Employer.

Science can publish YOUR LOGO with your one- column classified ad. No extra fee is assessed: you will be billed at our regular line rate for the number of lines the logo occupies. For details, call Classified Advertising: 503-352-6655.

SCIENCE, VOL. 249

POSITIONS OPEN

BIOENGINEER

DIRECTOR, Orthopedic Biomechanics Labora- tory, University of Maryland. Ph.D. engineer experi- ence in biomechanics to work closely with active clinical research program in spine and extremity reconstructive surgery. Competitive salary and equipment funds with ac- ademic appointment. Please telephone: 301-328-8705 or write: Charles C. Edwards, M.D., Professor of Ortho- pedics, University of Maryland Hospital, NGWS2, Baltimore, MD 21201.

Equal Opportunity Employer, M/F/H./V. Minorities and females are encouraged to apply.

DEPUTY DIRECTOR, OFFICE OF BIOLOGICAL PRODUCT REVIEW

Equal Opportunity Employer.

FACULTY POSITIONS IN CHEMISTRY

The Chemistry Department at the University of Cali- fornia, Berkeley, solicits applications for positions as ASSISTANT PROFESSOR of chemistry, beginning in the fall of 1991. Creative and energetic candidates in an area of chemistry who show exceptional promise for research and teaching are sought. Individuals selected for these positions will be expected to establish an outstanding research program. Established and established-un- established professors may be considered for appointment with tenure as professor or associate professor. Candidates should send curriculum vitae, a proposed research pro- gram, and a list of up to five recommenda- tion to: Chairman, Faculty Recruiting Commit- tee, Department of Chemistry, University of California, Berkeley, CA 94720. The deadline for receipt of applications is 1 December 1990. The Univer- sity of California is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY FACULTY POSITION

Chemistry Department, Pennsylvania State University. Tenure-track position at the ASSISTANT PROFESSOR level starting July 1991 to teach introductory and advanced courses in biochemistry and to work closely with mem- bers of the Biology Department in the administration of a joint program in biochemistry and molecular biology. The successful candidate must have a Ph.D. and a commitment to undergraduate teaching and research. There are excellent library, computing, and laboratory facilities including a H-P GC/MS system and a 300-MHz NMR spectrometer and a GS-1 isolation system. Start- up funds for faculty research are available. Pomona College, the founding member of The Claremont Col- lege, is among the nation's most selective undergraduate institutions. To apply, submit resume, a list of three references, a statement of research interests, a résumé, transcripts, a description of research interests, and three letters of reference by 29 October 1990 to: Professor Wayne E. Steck, Department of Chemistry, Pomona College, Claremont, CA 91711- 6338. Pomona College is an Affirmative Action/Equal Opportu- nity Employer and especially invites applications from women and minorities.
CHAIR, DEPARTMENT OF MICROBIOLOGY

Applications are invited for the position of Professor and Head of the Department of Microbiology at the University of Saskatchewan. The Head is expected to pursue and build an active research program in microbial pathogenesis, microbial genetics, virology or immunology. The Department Head has combined responsibility for the basic science department within the College of Medicine and for the Clinical Microbiology department in the Royal University Hospital. The department's service responsibilities in the Royal University Hospital include bacteriology, serology, mycology, parasitology, mycobacteriology, and clinical immunology and HLA tissue typing. The department has teaching responsibilities in the health sciences (Medicine, Dentistry, Occupational Therapy, Nursing, Pharmacy) and College of Arts and Sciences. The department offers a postgraduate degree program at the M.Sc. and Ph.D. levels in the basic science and at the Ph.D. level in Clinical Microbiology. The thirteen member faculty of the Department of Microbiology in the College of Medicine includes basic science microbiologists, virologists, immunologists, and medical microbiologists. Clinical infectious disease physicians in the University Hospital are cross-appointed to the department.

Potential applicants should send a curriculum vitae, a brief statement of current research interests and addresses of three referees to:

J.M. McDonald, M.D., Dean of Medicine, University of Saskatchewan, B103 Health Sciences Building, Saskatoon, Saskatchewan, S7N OW0.

The closing date for applications is December 31, 1990. In accordance with Canadian Immigration Regulations, preference will be given to Canadians and landed immigrants.

FACULTY POSITION
DEVELOPMENTAL BIOLOGY

The Department of Molecular Genetics and Cell Biology invites applications for new faculty positions in the field of developmental biology at the assistant professor level, although exceptional candidates at any level will be considered. We are especially interested in candidates using developmental genetic approaches to understanding pattern formation and intercellular regulation, but the quality of the research program and its relationship to existing strengths will be the most important considerations. Complete applications with three letters of recommendation should be sent by November 1, 1990 to:

Dr. Anthony P. Mahowald
Chairman
Department of Molecular Genetics and Cell Biology
THE UNIVERSITY OF CHICAGO
920 E. 58th St.
Chicago, IL 60637

An Affirmative Action Equal Opportunity Employer (Women and members of minority groups are strongly encouraged to apply)

Scientist

At Genentech, our success in the biotechnology industry is a result of superb personnel combined with state-of-the-art equipment in an environment where talent and innovation are allowed to flourish. Currently, we are seeking a Scientist to supervise our Virus Testing and Research Lab in order to ensure the scientific quality of studies performed.

Duties include the timely initiation and completion of cell characterization, safety studies, virus removal validation studies, completion of reports for inclusion in regulatory submissions, and the resolution of cell substrate safety issue.

The successful candidate will have a Ph.D. in the Biological Sciences and a minimum of 5 years' experience, including a post doc, in retrovirus research and cell biology. Experience in HIV research, molecular virology, knowledge of GLP regulations and supervisory skills are desirable.

Our commitment to the best is clearly reflected in our extensive benefits package which includes child care facilities, free health club membership, an employee stock purchase plan and fully paid medical/dental/vision coverage. For immediate consideration, please send your resume to Nancy Symonds, Genentech, Inc., Human Resources Dept. MD, 460 Point San Bruno Blvd, South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.

Genentech, Inc.
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Technical Specialist
BIOTECHNOLOGY

Perkin-Elmer has an outstanding career opportunity available in our Biotechnology joint venture/PE Cetus.

Applicants must have at least a B.S. or M.S. degree in molecular biology or biochemistry and 3-5 years of recent industrial lab experience utilizing techniques for DNA isolation, manipulation, separation, amplification and optical detection. Up to 20% travel may be required.

The successful candidate will directly contribute to the process of developing a variety of technical documents, product support literature, published articles, telemarketing and responding to customer requests for technical product information. We will have primary responsibility for information management projects such as the collection, analysis, and documentation of problems related to the optimal use of instrument systems and reagent products in the customer's lab. Prior experience in presenting technical seminars and technical workshops to customers and sales professionals is required.

Perkin-Elmer rewards qualified professionals with outstanding growth opportunities, competitive salaries and a comprehensive benefits plan. All inquiries should be directed to: Mr. J.T. Kulas, Manager, Human Resources, The Perkin-Elmer Corporation, 781 Main Avenue, Norwalk, CT 06850-0570.

An equal opportunity employer
UNIVERSITY OF WISCONSIN-PARKSIDE
ASSISTANT PROFESSOR: MOLECULAR BIOLOGIST

The University of Wisconsin-Parkside Biological Sciences Department, a Center of Excellence designated by the UW System Board of Regents, plans to add one tenure-track faculty position for September 1991. An earlier starting date is possible. This position offers opportunities for individuals seeking a balance of research and teaching.

Molecular Biologist: with proven competence in applying the techniques of molecular biology and biotechnology or immunology. The research program can be in any eukaryotic system, preferably on regulation and/or architecture of a genome. Applicants must have a Ph.D. in one of the following fields: molecular biology, immunology, genetics, developmental biology. Candidates with post-doctoral experience are preferred. The successful candidate should participate in the undergraduate and graduate programs. Teaching assignments will include upper level course(s) in the area of specialty, and an introductory course for majors or non-majors.

The University of Wisconsin-Parkside, located in the Chicago-Milwaukee urban corridor, is a predominantly undergraduate institution. The 12-person biology department offers an excellent undergraduate program with options/concentration in General Biology, Pre-Health Sciences and Molecular Biology and a MS program in Applied Molecular Biology with emphasis on Biotechnology. Current research programs include molecular studies on plant hormones, plant derived insecticides, tabtoxin production and resistance, zinc finger proteins in plants, and blood clotting factors; effects of electromagnetic fields on gene expression or wound repair; neuronal tissue regeneration; axenic growth of Hydra; circadian rhythms and pineal gland effects; lymphokines and tryptophan catabolism; cytochemistry of Acanthocephala; and enhancement of science instruction. Collaborations are encouraged.

Applications consisting of a letter of interest, curriculum vitae, a list of graduate and undergraduate coursework, a brief summary of research goals, representative publications and 3 letters of reference should be sent to the address given below. Review of applications will begin on November 5, 1990 and continue until the positions are filled. The Search Committee is interested in hearing from qualified women and members of minority groups. Dr. S.P. DATTA, Chairperson, Biological Sciences Department, University of Wisconsin-Parkside, P.O. Box 2000, Kenosha, WI 53141, Telephone: 414-553-2469/553-2227. The University of Wisconsin-Parkside is an Equal Opportunity/Affirmative Action Employer.

CELL BIOLOGY, MOLECULAR BIOLOGY, PROTEIN PURIFICATION
Bone Development, Regeneration and Repair

Chiron Corporation, a leader in soft tissue growth factor and wound healing research, is expanding its growth and differentiation factor program in the area of bone morphogenesis.

We seek a motivated and dedicated scientist at the Ph.D. level to investigate the role of growth factors in bone, and to utilize recombinant proteins to mimic morphogenesis and repair of bone. Particular emphasis will be placed on bone repair models. The role of bone morphogenetic proteins in diseases associated with abnormal bone resorption will also be targeted.

Applicants should have at least two years of post-doctoral experience in bone cell biology or related fields. Also, candidates with some background knowledge of the molecular biology of bone would be preferred. An ability to perform research independently must be demonstrated by a record of publication in peer reviewed journals.

Two other positions exist at the B.S. or B.A. level for Research Associates with an interest in bone proteins at the molecular level. The first involves the molecular cloning, expression and post-translational processing of novel bone-related proteins. The second position will involve the purification of recombinant bone proteins produced in heterologous microorganisms such as yeast, or in cultured mammalian cells. For these latter two positions, entry level applications are encouraged.

Chiron Corporation, located in the San Francisco Bay Area, offers a stimulating and challenging research environment, a competitive compensation package and opportunities for professional advance ment for candidates, including a rich benefits program. Send applications to C.P. Verre, Human Resources Dept. - MB148-49, 4500 Horton St., Emeryville, CA 94608.

FDA National Center for Food Safety and Technology
Staff Fellow Positions

Available Now — A unique opportunity for qualified scientists to play an important role in a pioneering U.S. food science research effort in food safety. FDA is seeking Staff Fellows to conduct research in food biotechnology and fermentation technology. Specific disciplines sought include:

- Genetic Engineering
- Biotechnology
- Food Microbiology
- Fermentation Technology
- Recombinant DNA
- Microbial Genetics
- Biosensors
- Protein Engineering
- Related Fields

These positions are available at the National Center for Food Safety and Technology, located at the IIT Moffett Campus in Bedford Park, Illinois. Emphasis is on food safety research conducted in cooperation with scientists from academia, other government agencies, industry, and other segments of the science community. Teaching responsibilities in a Food Safety Science degree program at IIT may be part of the job. Candidates must have a master's degree, doctoral degree, or be certified by a university as meeting all requirements leading to such a degree in one of the listed disciplines or a closely related discipline. Staff Fellowships are excepted appointments in the Federal Service. Candidates must be United States citizens or resident aliens eligible for naturalization within four years. Initial appointments will be for up to two years. Salary range ($29,891 to $45,441) is based on qualifications and experience. A current curriculum vitae and bibliography should be sent to Dr. Steven Gendel, Biotechnology Section, Food Engineering Branch, DHHS/PHS/FDA, National Center for Food Safety and Technology, 6502 S. Archer Ave., Summit-Argo, IL 60501, not later than October 15, 1990.

AUSTRALIAN NATIONAL UNIVERSITY — AUSTRALIA
RESEARCH fellow/POSTDOCTORAL fellow
IN Ecosystem DYNAMICS (one position), RESEARCH SCHOOL OF BIOLOGICAL SCIENCES.

The Ecosystem Dynamics Group consists of about eight academic staff who work collaboratively to investigate the processes of establishment, development and rehabilitation of particular ecosystems and to develop predictive models of changes in terrestrial ecosystems. Interests within the Group include community theory, modelling ecosystem processes, the dynamics of plant populations, field eco-physiology and plant-animal interactions. The Australian biota is the major focus and many of the Group's field projects are in eucalypt forests and woodlands. The School is seeking to appoint a Research Fellow or Postdoctoral Fellow to work within the Group. Candidates with demonstrated research skills in any of the areas of interest to the Group are encouraged to apply. In particular, candidates interested in testing theory via experimental studies in the field are sought. (Note applicants for the Postdoctoral Fellowships advertised in the middle of this year will be automatically considered for this additional position.)

For further information please contact Dr. Ian Noble or Dr. Marilyn Balli (06) 245 4020, fax (06) 245 9995, Ecosystem Dynamics, RSSB, Box 475 GPO, Canberra 2601, Australia. Closing date: 5 October 1990. Ref: BS 30.8.8.

SALARY: Research Fellow: $33,163—$43,096 p.a.; Postdoctoral Fellow Grade 1 (fixed point): $32,792—$32,762 p.a. APPOINTMENT: Research Fellow up to three years, possibility of extension to five years; Postdoctoral Fellow up to two years, possibility of extension to three years. APPLICATIONS should be submitted in duplicate to the Registrar, The Australian National University, GPO Box 4, Canberra ACT 2601, Australia, quoting reference number and including curriculum vitae, list of publications and names of at least three referees. The University reserves the right not to make an appointment or to appoint by invitation at any time. Further information is available from the Registrar.

THE UNIVERSITY IS AN EQUAL OPPORTUNITY EMPLOYER.
CHIEF
Toxicology Branch, GM-14/15

The Developmental Therapeutics Program (DTP) of the Division of Cancer Treatment plays a major role in the national effort to discover and develop agents for the treatment of cancer and AIDS. The program operates much like a pharmaceutical company, with the major functional elements found in such a company. The Toxicology Branch within DTP develops, implements, and analyzes, through a collaborative research program, investigations on the toxicological and pharmacological properties of agents in vivo and in vitro experimental systems. Protocol studies carried out under Good Laboratory Practice Regulations yield data which 1) establish an initial dose for clinical trials; 2) evaluate organ systems adversely affected; 3) assess the reversibility of the adverse effects; and 4) determine the schedule dependency of observed toxic effects. Information collected by the Toxicology Branch is filed with the Food and Drug Administration as the preclinical data base for Investigational New Drug Applications which are required prior to initiation of clinical trials. Pharmacology studies are designed to determine the schedule dependency of organ toxicity and to provide information to guide dose escalation procedures and the initial design of clinical trials regimens. These efforts are performed under contract and are managed by the professional staff of the Branch. The Branch Chief directs this effort and coordinates the activities of the Branch with other preclinical and clinical components of the Division.

This position requires a Ph.D. (or equivalent) in toxicology, pharmacology, or chemistry. Preference will be given to candidates with extensive experience in drug development or discovery, especially as related to cancer or AIDS. Salary range is $50,342 to $76,982.

Candidates should send a copy of their Application for Federal Employment (SF-171), curriculum vitae and bibliography to:

National Institutes of Health
National Cancer Institute
Personnel Management Branch
9000 Rockville Pike
Executive Plaza South, Room T-43
departments: JAC
Bethesda, Maryland 20892

Applications must be received by October 31, 1990. For further technical information, interested parties may call Dr. Saul Schepartz (301) 496-8720

U.S. Citizenship is Required
NIH is an Equal Opportunity Employer

RESEARCH SCIENTIST
MICROBIAL GENETICS

Amgen has established itself as a leader in the discovery and development of human therapeutic products through applications of molecular biology and biotechnology. As a result of our on-going commitment to the development of gene technology, we have an immediate opportunity for a Research Scientist to contribute to programs in strain improvement, vector development and enhancement of heterologous gene expression.

Qualified candidates for this position must have a Ph.D. in Molecular Biology or an equivalent discipline and a minimum of 2 years’ post-doctoral experience in the genetics and molecular biology of E. coli. Functional understanding of microbial physiology is desirable.

Amgen’s commitment to excellence in research has created a stimulating and challenging environment conducive to innovation and creativity. As a company we highly value our human resources and offer an excellent compensation and benefits package including equity offerings. Our location is northwest of Los Angeles in an attractive community free of traffic congestion and other problems commonly associated with the Los Angeles area.

If you have the required background and would like to contribute your expertise to our research efforts, please send a complete CV, in strictest confidence, to:

AMGEN, INC.
Recruitment, Dept. #553
Amgen Center
Thousand Oaks
CA 91320-1789

Postdoctoral Research Fellowships

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has initiated a multidisciplinary postdoctoral research program which will provide exciting opportunities to conduct basic studies in areas of potential therapeutic utility. The following fellowships are currently available:

Molecular Virology (Fellowship Z)
The Fellow will be involved in investigating the regulation of HIV-encoded gene products. Publication of research findings will be strongly encouraged. Applicants should have an M.D. or Ph.D. with experience in recombinant DNA technology.

Endothelin Biology/Cardiovascular Biochemistry (Fellowship G)
The Fellow will conduct research on the cellular biology of endothelin as it relates to cardiovascular pathophysiology. Projects are focused on the characterization of endothelin receptors and endothelin biosynthesis. Applicants should have a Ph.D. in Biochemistry, Cell Biology or Pharmacology with experience in receptor/enzyme isolation and characterization. Knowledge of signal transduction mechanisms and cell culture is desirable.

Appointments are for one year, renewable for a second year. Compensation includes $32,000 annual salary with relocation assistance and an attractive benefits package. Our moderm, growing research facilities are located adjacent to the University of Michigan in an outstanding living and working environment.

Send CV with three references to Jack Moyer, Human Resources, PARKE-DAVIS Pharmaceutical Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105. Please indicate the fellowship you are applying for.

“Equal Opportunity in Action”
FACULTY POSITION IN INORGANIC CHEMISTRY
UNIVERSITY OF MARYLAND COLLEGE PARK (UMCP)

Inorganic chemists with a Ph.D. degree and outstanding credentials in any subdiscipline, including bioinorganic chemistry and solid-state chemistry, are encouraged to apply. The Department is committed to diversity and equity in all dimensions of its mission and to building a strong and inclusive community. The position is available immediately at the rank of ASSISTANT OR ASSOCIATE PROFESSOR, dependent on experience. Applicants should submit a curriculum vitae, a statement of research interests, and three letters of reference to: Chair, Search Committee, Department of Chemistry, 1085 Althouse Laboratory, The Pennsylvania State University, University Park, PA 16802. Applications should be submitted electronically to: https://appt.cis.psu.edu/applicantsite/applicant.do?instId=3059. Review of applications will begin October 8, 1999 and continue until the position is filled.

FACULTY POSITION IN BIOCHEMISTRY, TENURE TRACK
DICKINSON COLLEGE

Biochemistry, tenor of fall of 1991. Ph.D. in biochemistry, with commitment to undergraduate and graduate education. A research program with undergraduates is expected. Directors should submit a resume and a short description of future research plans and should arrange for three letters of reference to be sent to: Professor William J. Heimberg, Chair, Search Committee, Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742. Telephone: 301-454-4850 or 301-408-1797. For full consideration, materials should be received by 1 November 1990. UMCP is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN PHARMACOLOGY

The Department of Pharmacology, University of Tennessee, is seeking candidates for two tenure-track positions. The positions are available immediately at the rank of ASSISTANT OR ASSOCIATE PROFESSOR, dependent on experience. Applicants should submit a curriculum vitae, a statement of research interests, and three letters of recommendation to: Dr. John M. Oldfield, Chair, Department of Pharmacology, University of Tennessee, Memphis, TN 38163. Search will continue until the positions are filled. The University of Tennessee is an Equal Employment Opportunity/Title IX Section 504/VA Affirmative Action Employer.

FACULTY POSITIONS IN CELL, MOLECULAR, AND DEVELOPMENTAL BIOLOGY

Pennsylvania State University, University Park, PA 16802 invites applications for five tenure-track positions available August 1991.

The Department of Biology, Pennsylvania State University, invites applications for five tenure-track positions available August 1991.


Candidates must have Ph.D. degree. Continual scholarship, including research, will be encouraged, and research with publication high priorities. Application deadline: 1 November 1990 or until suitable candidates are found. Separate application materials are required for each position. Send curriculum vitae, transcripts, and letters of reference to: Search Committee, Box G, 208 Mueller Laboratory, University of Pennsylvania, University Park, PA 16802. The Department of Biology is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Cryocryostat

FACULTY POSITION IN BIOCHEMISTRY/BIOLOGICAL MOLECULAR SCIENCE
AT THE UNIVERSITY OF SOUTHERN CALIFORNIA

The Chemistry and Molecular Biology Program and the Department of Biological Sciences invite applications for a tenure-track teaching/research position at the assistant professor level in the area of cell biology. The successful applicant will be expected to teach courses in microbiology and molecular biology at the graduate and undergraduate levels. The position is effective 1 July 1991. Applicants should submit their curriculum vitae, three letters of recommendation, and a brief description of research interests. Applications and related materials should be sent to: Dr. Janis O'Donnell, Chair, Search Committee, Department of Chemistry and Molecular Biology, University of Southern California, Box 870344, Tuscon, AZ 85728-0344. Review of applications will begin 1 November 1990. The University of California is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN CELL, MOLECULAR, AND STRUCTURAL BIOLOGY

Applications are sought for tenure-track positions in the newly formed Department of Cell, Molecular, and Structural Biology at Northwestern University Medical School. The Department of Biology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.

A Northwestern University is an Equal Opportunity/Affirmative Action Employer.

More than 150,000 people paid to see your ad in SCIENCE. Classified Advertising Department telephone: 202-326-6585. FAX: 202-682-0816.

FACULTY POSITION IN MOLECULAR BIOPHYSICS

The Department of Biophysics and Biophysical Chemistry at The Johns Hopkins University School of Medicine invites applications for several faculty positions in the newly funded Markey Center for Macromolecular Structure and Function. We anticipate that the appointments will be at the ASSISTANT PROFESSOR level although the most competitive applicants will be eligible for higher positions. A strong background in any area of molecular biology is desirable. The successful applicant will be expected to conduct an active research program in molecular biology and to teach courses in the area of cell biology.

Candidates should submit a curriculum vitae and a statement of research interests. More information can be obtained from: Dr. J. Michael Berg, Department of Biophysics and Biophysical Chemistry, The Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore MD 21205-2185. FAX: 301-955-0637. An Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGIST: The Department of Biology, The University of Alabama, is seeking applicants with research interests in any area related to the molecular biology of gene expression. The appointment is contingent upon the availability of funds. Applications should be sent to: Dr. James O'Neal, Chair, Search Committee, Department of Biology, The University of Alabama, Box 870344, Tuscon, AZ 85728-0344. Review of applications will begin 1 October 1990. The University of Alabama is an Equal Opportunity/Affirmative Action Employer.
The National Institute on Deafness and Other Communication Disorders (NIDCD) is recruiting for the position of Director, Division of Intramural Research (DIR). The Director, DIR, directs a program of multi-disciplinary fundamental and clinical research for the NIDCD. The Director, DIR, serves as the principal advisor to the institute Director on biomedical and scientific affairs involving the intramural research programs conducted by basic and clinical research investigators in the field of deafness and other communication disorders. The Director develops and recommends policies for the execution of the intramural research programs, determines their ongoing effectiveness, and recommends or develops new or revised direct research programs. In collaboration with senior officials, the Director, DIR, participates in the design and implementation of overall Institute management policies including program planning, budget formulation, and resource allocation. The Division of Intramural Research has an FY 1990 budget of $4.3 million and a current FTE ceiling of 24.

This is a Civil Service position in the Senior Executive Service (SES), with base salary currently from $71,200 to $79,200 per year depending on qualifications. SES members are eligible for various bonuses and awards, and physicians are eligible for a comparability allowance of up to $20,000 per year, although total compensation cannot exceed the rate for Executive Level I (currently $107,300 per year). (Alternatively, applicants may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.) The SES individual selected, if not presently in the Senior Executive Service, must serve a one-year probationary period.

Further information about the position and qualification requirements may be obtained by contacting Ms. Christine A. Clements at (301) 402-0508 (voice or TDD) or TDD (301) 402-1134. An Application for Federal Employment (SF-171) along with a Curriculum Vitae and Bibliography should be submitted to:

Ms. Christine A. Clements
Personnel Management Specialist
National Institutes of Health
National Institute on Deafness and Other Communication Disorders
Building 31, Room B2C05
9000 Rockville Pike
Bethesda, Maryland 20892

Additional Information may be obtained from:
Dr. Edward Korn, Chairperson, NIDCD Search Committee for Director, Division of Intramural Research, NIDCD, National Institutes of Health, Building 10, Room 7N214, 9000 Rockville Pike, Bethesda, Maryland 20892. (301) 496-2116.

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**FLAVOUR CHEMIST RESEARCH SCIENTIST/SENIOR RESEARCH SCIENTIST**

A$32,471-$39,724/A$41,067-$47,070

CSIRO DIVISION OF FOOD PROCESSING DAIRY RESEARCH LABORATORY HIGHET, VICTORIA, AUSTRALIA

**FIELD:** Flavour Chemistry.

**THE PROGRAM:** The Dairy Research Laboratory, a Laboratory within the Division of Food Processing, conducts research aimed at improving the quality of dairy products, adding value to dairy products by developing new or improved manufacturing processes and by developing new products and finding new uses for existing products. Working in association with the dairy industry, the Laboratory undertakes pure and applied research and has a reputation for successful development and transfer of technology to the commercial sector. The Laboratory has an active Flavour Group which has investigated both desirable and undesirable flavours of dairy products. In the course of this work many new techniques have been devised for the isolation, identification and quantification of flavour compounds. Equipment in the Laboratory includes a Finnigan 1020 gas chromatograph/mass spectrometer/data system, several gas chromatographs, HPLC and low pressure distillation systems.

The position offers to the right scientist an opportunity to develop a key role in the laboratory through a combination of scientific excellence and the solution of industrial problems.

**DUTIES:** The appointee will be required to develop an expertise in the various techniques of flavour chemistry currently used in the Laboratory, to undertake research into the desirable flavour of Cheddar cheese and to consult with industry in connection with problems in the flavour of food.

**QUALIFICATIONS:** A PhD degree or equivalent qualification in Chemistry, including extensive experience in the analysis of trace quantities of organic materials although not necessarily flavour volatiles. Leadership qualities, research skills and the ability to liaise effectively with industry are essential.

**CONDITIONS:** Appointment will be on an indefinite basis with Australian Government Superannuation benefits.

**MORE INFORMATION:** Prospective applicants are invited to telephone Mrs. Gerda Urbach on (613) 556-2211 or write to the address below for further information. A copy of the detailed job description and selection criteria can be obtained from Mark Kenward on (613) 556-2211. Facsimile service is available on (613) 532-0003.

**APPLICATIONS:** These should be submitted by 19 October 1990 and should quote reference number GURS01. Applications should relate to the Selection Criteria and provide details of relevant personal particulars, including qualifications and experience and the names and contact addresses of at least two professional referees. They should be addressed to:

The Head of Laboratory,
CSIRO Division of Food Processing,
Dairy Research Laboratory,
PO. Box 20,
Highett, Victoria, 3190,
Australia.

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER
CSIRO PROMOTES A SMOKE-FREE ENVIRONMENT
POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS. To study neurotoxic factors (NGF and NGF-related). Transcription, translation, assembly and function of primary cultures, in vitro assays, computer modeling. Outstanding new laboratories. Dedicated core facilities. Strong interdepartmental interactions. Send curriculum vitae (including letters of reference) to: Dr. Daniel F. Catanzaro, Department of Physiology and Biochemistry, Center for Behavioral Neuroscience, 1300 York Avenue, New York, NY 10021. Telephone: 212-746-6497; FAX: 212-746-8590.

POSITION IN MOLECULAR BIOLOGY/IMMUNOLOGY

Postdoctoral position available from November 1990 to work on one of the following topics: (i) expression and protein engineering of soluble T cell receptors in bacteria or yeast; and (ii) genetic manipulation of recombinant DNA fragments and the construction of novel immunotoxins using Escherichia coli as an expression host. For a relevant reference, please see Ward et al., Science 244, 544-546 (1989). For the postdoctoral position, expertise in molecular biology and experience with recombinant proteins and/or immunology is desirable, but not essential. Particular emphasis will be placed on the development of immunotherapeutic strategies for cancer and autoimmunity.

Applications, including curriculum vitae and the names of two references, should be sent to: Dr. E. Sally Ward, Cancer Immunobiology Center, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75390-8876.

An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Two positions for Ph.D. in neuroscience or related discipline to participate in studies of the pharmacology of bradykinin and spinal cord pain pathways. First position (available immediately) to study involvement of GABA/ benzodiazepine/ glycine receptors on A9 dorsal horn neurons. Second position (available 1 February 1990) to study role of opioid receptor subtypes. Experience with behavior, microinjection, microdialysis, and in vivo receptor binding techniques preferred. Neuroanaesthesiological or neurochemical expertise also desirable. Send curriculum vitae, two-page description of research interests, and names of references to: Donna L. Hammond, Ph.D., Department of Anesthesiology and Critical Care, The University of Chicago, 5841 South Maryland Avenue, Box 428, Chicago, Ill. 60637.

An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

ENDOCRINE TOXICOLOGY

Department of Pharmacology and Toxicology, Michigan State University, East Lansing, Ph.D. in Toxicology with a strong need to participate in research directed toward understanding the biochemical mechanisms by which certain chemicals inhibit the synthesis of insulin in animal and cellular systems. A strong background in biochemistry, pharmacology, or other disciplines in which molecular biology knowledge and experience are desirable. Measurement of mRNA levels by Northern analysis and other methods of investigation into the processes connected with synthesis of polypeptide hormones will be part of the research program. Applications are available for a 1- or 2-year commitment. Contact: Lawrence J. Fischer, Ph.D., Institute for Environmental Toxicology C-231 Holden Hall Michigan State University East Lansing, MI 48824 Telephone: 517-353-6469

SCIENCE, VOL. 249
NCI FELLOWSHIP PROGRAM IN
CLINICAL ONCOLOGY AND CANCER
EPIDEMIOLOGY

The National Cancer Institute is accepting applications for a joint fellowship training program in clinical oncology and cancer epidemiology. Physicians with multidisciplinary training in clinical oncology, epidemiology, and etiologic research are becoming increasingly important in identifying cancer risk factors that may lead to further insights into human carcinogenesis and prevention strategies. This fellowship program offers such multidisciplinary training to physicians who have completed a minimum of two years in internal medicine or pediatrics.

The Clinical Oncology-Cancer Epidemiology Program is part of NIH’s Clinical Associate Program, and offers three-year fellowships beginning July 1, 1991. The first year consists of clinical training in the Clinical Oncology Program, Division of Cancer Treatment. During this year, associates undertake the primary care of inpatients and outpatients entered into clinical trials and develop expertise in cancer diagnosis and treatment. Openings are available in the Medicine Branch, the NCI-Navy Medical Oncology Branch, and the Pediatric Branch.

During the second and third years, associates spend about 80% of their time in the Epidemiology and Biostatistics Program, Division of Cancer Etiology, and the remainder of their time in continued clinical activities in the Division of Cancer Treatment. In the epidemiology program, associates work under the direction of senior investigators in the Environmental Epidemiology Branch, the Clinical Epidemiology Branch, the Radiation Epidemiology Branch, and the Biostatistics Branch. All Branches are involve in research into environmental and host determinants of cancer. Opportunities for collaborative research may also be available in one of the intramural laboratories within the Institute.

This three-year fellowship is designed to fulfill the subspecialty requirements for Medical Oncology and Pediatric Hematology-Oncology. Candidates who have completed at least one year of clinical oncology training may be considered for direct entry into the second year of this program. Clinical Associates may enter the U.S. Public Health Service by means of the Civil Service or Commissioned Corps. For the Civil Service appointment, the starting salary is $37,000, with annual increases of $2,000 for each additional year in the program. Salaries for Commissioned Officers vary based on level of training and experience. Clinical Associates receive benefits that include health care, life insurance, vacation, and sick leave. In addition, moving and travel expenses are provided.

For further information and application procedures, please contact either:

Gregory Curt, M.D.
Clinical Director
National Cancer Institute
Bldg. 10, Rm. 12N214
Bethesda, MD 20892
(301) 496-6375

Joseph F. Fraumeni, Jr., M.D.
Associate Director for
Epidemiology and Biostatistics
National Cancer Institute
Executive Plaza North, Rm. 543
Bethesda, MD 20892
(301) 496-1611

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POSTDOCTORAL FELLOW
REGULATION OF GENE TRANSCRIPTION BY VITAMIN A IN SKIN

UNIVERSITY OF MICHIGAN MEDICAL CENTER
DEPARTMENT OF DERMATOLOGY

The Department of Dermatology is seeking an individual to join a multidisciplinary group to investigate the regulation of growth and differentiation of human skin cells by retinoids (vitamin A-related compounds). Studies will focus on the regulation of gene transcription by nuclear retinoic acid receptors and characterization of the biological activity of retinoic acid analogues. This information will provide a better understanding of the molecular basis of the effects of retinoids on skin. Expertise in molecular biology techniques preferred. Funding is available for at least three years with possibility of long-term employment.

Interested persons should send their curriculum vitae to John J. Voorhees, M.D., Chairman, Department of Dermatology, University of Michigan Medical Center, 1301 E. Catherine, Kresge I, R6558, Ann Arbor, MI 48109-0528.

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**RESEARCH SCIENTIST POSITIONS.**
Candidates should have a Ph.D. or equivalent in a relevant area and 1-3 years of postdoctoral experience. Additional experience as an independent scientist in academic or industry settings is desirable but not essential.

**POST-DOCTORAL POSITIONS.** A Ph.D. or equivalent in a relevant area of neurobiology is required.

**RESEARCH ASSOCIATE POSITIONS.** A Bachelor's degree or equivalent and relevant work experience in neurobiology, including neuronal cell culture or neurohistochemistry, are necessary.

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PROFESSOR IN ASTROPHYSICS

Applications are invited for a Chair (Professorship) in Astrophysics at the Department of Astronomy, from June 1, 1991. The Professor will be appointed as a Civil Servant under the Ministry of Education and Research. The annual salary is approximately Danish Kroner 360,000.

Applicants with a special knowledge of theoretical astrophysics or of observational astrophysics (including instrumentation) will be considered. Applicants with a wide range of qualifications within several areas – especially those relating to the Institute’s field of research – would be preferred. Present and planned research projects are expected to be described in the application.

The research activities of the Institute are centered around distant galaxies and clusters of galaxies, the structure and development of the Milky Way, and stellar structure and evolution including solar physics. The Institute is partly situated in Copenhagen and partly in Brøndby. The scientific staff includes 1 full professor and 15 associate professors. Denmark is a member of ESO and ESA, and the Astronomical Observatory has two national telescopes (1.5m and 0.5m) at the La Silla Observatory. Further, Copenhagen University is a user of the La Palma Observatory and runs a fully automatic meridian circle there. From 1990 there will be access to the Nordic Optical Telescope at La Palma. The Institute has at its disposal highly specialized electronic and mechanical workshops as well as access to excellent computer facilities. The Institute has an extended national collaboration (e.g., with the Danish Space Research Institute and the Niels Bohr Institute) as well as an international collaboration.

The Professor will participate in the Department’s teaching at all levels. The language of instruction is Danish, but English might be accepted for a period of two years after the appointment.

Applications should include copies of the scientific publications and further documentation which the applicant wishes to be considered, to be forwarded in triplicate together with a list of all submitted material.

Information concerning the applicant’s teaching experience must be included. A Study Board (evaluation committee) will be asked to evaluate the applicant’s teaching experience.

Evaluation of the applicants’ qualifications will be undertaken by a specially appointed Scientific Committee. The Committee’s report will be sent to all applicants in an unbound form.

Further information may be obtained from The Director, Astronomical Observatory, Oster Voldgade 3, DK-1350 Copenhagen K, Denmark.

Applications are to be addressed to Her Majesty the Queen of Denmark and sent to the Faculty of Natural Sciences, Panum Instituttet, Blegdamsvej 3, DK-2200 Copenhagen N, Denmark. The closing date for receipt of applications is November 30, 1990 at 12 hours.

POSTDOCTORAL FELLOW/RESEARCH FELLOW/SENIOR RESEARCH FELLOW
RESEARCH APPOINTMENTS IN PHOTOSYNTHESIS AND PHYSIOLOGICAL PLANT PATHOLOGY, RESEARCH SCHOOL OF BIOLOGICAL SCIENCES, THE AUSTRALIAN NATIONAL UNIVERSITY. Several appointments are available and will be filled over 2 years from May 1991. Applications are invited from persons who have or will acquire experience in the following areas: (a) Photosynthesis, especially in areas which may help relate light reactions and carbon metabolism. Expertise in fluorescence analysis or photoacoustic evaluation of photosystem processes and/or analysis of the function of pigment/protein complexes is being sought. Preference will be given to applicants with experience of these approaches in higher plants and their environments. (b) Physiological plant pathology, especially in areas to do with interactions between plant viruses and photosynthetic functions. Applicants with experience in both plant photosynthetic physiology and virology will have an advantage. The successful candidates will join a research group in the School which will be headed by Professor C.B. Osmond, FRAS, FAA, who will take up his appointment as Director of the School during the first half of 1981. Initial enquiries can be directed to: Professor C.B. Osmond, Department of Botany, Duke University, Durham, NC 27706, USA or Professor B.E.S. Gunning, Acting Director, Research School of Biological Sciences, The Australian National University, GPO Box 475, Canberra ACT 2601, Australia, telephone 61 6 2493841, facsimile 61 6 249 0758. Closing date: 5 October 1990. Ref. BS 22.B.1. SALARY: Senior Research Fellow: A$45,729–A$54,255 p.a.; Research Fellow: A$33,163–A$43,096 p.a.; Postdoctoral Fellow Grade 1 (fixed point): A$28,792–A$32,762 p.a. APPOINTMENT: Senior Research Fellow/Research Fellow up to three years, possibility of extension to five years; Postdoctoral Fellow up to two years, possibility of extension to three years. APPLIcATIONS should be submitted in duplicate to the Registrar, The Australian National University, GPO Box 4, Canberra ACT 2601, Australia, quoting reference number and including curriculum vitae, list of publications and names of at least three referees. The University reserves the right not to make an appointment or to appoint by invitation at any time. Further information is available from the Registrar.

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POSTDOCTORAL POSITION. Available immediately to study proteins/gene products secreted or synthesized in bacteria with expertise in immunology and molecular biology. Responsibilities will be the production of anti-idiotypic vaccines (hybridoma-derived or recombinant antibodies) against cancer and AIDS. Please send your curriculum vitae with description of previous research experience and two letters of recommendation to: Dorothee Herlyn, D.V.M., Associate Professor, The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104. FAX: 215-898-0980. Equal Opportunity Employer, M/F.

POSTDOCTORAL POSITION. To participate in molecular and genetic analyses of the functions of extracellular matrix molecules in C. elegans development (e.g., Cell 85, 555; J. Biol. Chem. 264, 17574; cell 95, 621.188), Send curriculum vitae and names of three references to: Dr. James M. Kramer, Laboratory for Molecular Biology MC067, University of California, San Diego, CA 92037. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Ph.D. (physiology, animal sciences, nutrition, or related area) for work in NIH-funded study of the effects of parental nutrition on intestinal growth and development in neonatal swine. Experience in intestinal function (e.g., transport, morphology, enzyme analysis, etc.) and experience handling experimental animals is preferred. Send curriculum vitae and three letters of recommendation to: Mark G. Clemens, M.D., Pediatric Surgical Laboratory, Johns Hopkins University, School of Medicine, Department of Surgery, GM50C 7-116, 600 North Wolfe Street, Baltimore, MD 21205.

POSTDOCTORAL POSITIONS. Available immediately to study cell-extracellular matrix interactions at the University of California, San Francisco (UCSF). Projects include the structural and functional characterization of a novel metalloproteinase inhibitor, study of mechanistic events involved in the promotion of oncogenic transformation by this protein, and the identification and characterization of related members of this family of proteins. Background in cell and molecular biology, biochemistry, or immunology desirable. Please send curriculum vitae and three letters of recommendation to: Dr. Susan P. Hawkes, Department of Pharmacy, UCSF, San Francisco, CA 94143-0466. UCSF is an Equal Opportunity/Affirmative Action Employer.


POSTDOCTORAL ASSOCIATE MOLECULAR CELL PHYSIOLOGY. HARVARD MEDICAL SCHOOL. Two postdoctoral positions available immediately in the molecular cell biology of transport proteins in polarized epithelial cells. One project focuses on structure-function relationships in voltage-gated potassium proteins (JBC 265, 17092). The second project addresses the function of the cystic fibrosis transmembrane regulator and its effects on ion transport. Both offer the opportunity to investigate determinants of epithelial polarity (PNAS 86, 5429). Interested Ph.D.s of M.D.'s with prior experience in molecular cell biology or in transport physiology should send curriculum vitae and three references to: Seth L. Alper, M.D.-Ph.D., Molecular Medicine Unit, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02215.

POSITIONS OPEN

POSTDOCTORAL POSITION. To study the role of the microtubule cytoskeleton in cell motility and morphogenesis. The project will focus on control of microtubule dynamics by growth factors and will combine biochemical, immunological, and video-based microscopy approaches. Send curriculum vitae and three letters of recommendation to: Dr. T. G. Gundersen, Department of Cell Biology and Anatomy, Columbia University, College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032. We take Affirmative Action toward Equal Opportunity.

POSTDOCTORAL FELLOWSHIP. The Hematology Division, Vanderbilt University, is seeking qualified postdoctoral candidates to pursue basic research in the thrombosis and hemostasis field. Areas of research include: (a) investigation of factors that modulate platelet function and their inhibitors, regulation of serum biosynthesis. Candidates must have a strong background in protein biochemistry, immunology, or cell biology. Send curriculum vitae to: Dr. Marc Schapira, Vanderbilt University, Hematology Division, Nashville, TN 37232. Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS. The Lineberger Cancer Research Center of the University of North Carolina (UNC) at Chapel Hill will have openings in 1990-91 for persons completing graduate studies to train in basic research on (a) tumor virology, chemical carcinogenesis, drug development, cancer cell biology and tumor immunology. Training is available in basic research techniques, gene expression, DNA replication, mutagenesis, tumor immunology, enzymeology, regulation of cellular proliferation, growth factors, immunogenetics, molecular genetics of cancer, and combined programs. Unique training resources and core facilities are housed in the NCI-designated Lineberger Comprehensive Cancer Center. Candidates must be U.S. citizens or permanent residents. Send for brochure listing faculty and apply with curriculum vitae, three letters of recommendation, a statement of research interests, and graduate school records to: Director, CB# 7295, Lineberger Comprehensive Cancer Center, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599. UNC's Cancer Research Center is an Affirmative Action/Equal Opportunity Employer. Minority applicants are encouraged voluntarily to identify themselves.

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ADVANCED POSTDOCTORAL or RESEARCH ASSOCIATE POSITION, Center for AIDS Research or M.D./Ph.D. program. A minimum of 3 years of advanced postdoctoral training or experience in viral immunology, cellular immunology, protein chemistry, or related fields to implement a funded program under a National AIDS Vaccine Development Group for AIDS. The work involves new adjuvant approaches for recombinant subunit proteins, to be studied in cell lines and in vivo. Interested applicants should send curriculum vitae, statement of research interests, and names and addresses of three references to: Dr. N. F. LaRusso, Director, Center for AIDS Research, M.D./Ph.D. Program, 304 Forest Street, Cambridge, MA 02139. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE Opportunity to participate in ongoing research directed at: characterization of the genes and molecular mechanisms involved in the formation of meningiomas and other neural tumors and characterization of a recently identified oncogene/DNA binding protein. Send curriculum vitae with the names and addresses of three references to: Dr. Donna George, Department of Human Genetics, Howard Hughes Medical Institute, University of Pennsylvania School of Medicine, Philadelphia, PA 19104–6145. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE A postdoctoral research associate position, funded for 3 years, is available immediately to study tissue-specific regulation of a human gene. Research involves molecular cloning and expression of genes for transcription factors, translational studies, and protein purification. Candidates must have biochemistry and/or molecular biology background, experience in the isolation and manipulation of DNA. Send resume and a list of three references to: Gokul C. Das, Department of Molecular and Cell Biology, Building 17, Room 438, University of California, Berkeley, CA 94720. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ENGINEER Develop hybrid speech recognition system using advanced signal processing and acoustic phonetic knowledge base. Develop software to recognize speech: voice (ELISA), visual patterns, and facial features; (ii) primary cell culture and cloning in culture; (iii) developing techniques for ablative surgery. Interested applicants should send curriculum vitae, statement of research interests, and names and addresses of three references to: Dr. P. J. LaRusso, Director, Center for AIDS Research, M.D./Ph.D. Program, 304 Forest Street, Cambridge, MA 02139. An Equal Opportunity/Affirmative Action Employer.

RESEARCH INVESTIGATOR The Department of Dermatology, University of Michigan, seeks a Ph.D. with one or more years of postdoctoral experience in molecular biology and genetics. Interested applicants should send curriculum vitae and three reference letters to: Dr. D. S. Wester, Department of Dermatology, University of Michigan, Ann Arbor, MI 48109-0672. An Equal Opportunity/Affirmative Action Employer.

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A PhD degree, appropriate postdoctoral training and a record of accomplishment in your research endeavors is required for each of the following positions. Previous industrial research experience is welcome but not essential.

**Osteoarthritis** — We seek both a laboratory supervisor and a research leader in this area. The latter position is distinguished by a requirement for more extensive research experience in OA in order that the individual be capable of playing a clear scientific leadership role. Both positions would focus on developing and applying systems related to the pathogenesis and treatment of osteoarthritis. Appropriate fields of training include protein biochemistry, molecular biology, cell biology or experimental pathology. For those with *in vitro* expertise, experience with cartilage/chondrocyte biochemistry/metabolism is required (with regulation by cytokines being of particular interest). For those whose primary experience has been with *in vivo* models of osteoarthritis, experimental assessment of mechanisms and pharmacological effects will be important.

**Inflammation Models** — This position calls for research experience in the area of acute and chronic *in vivo* models of pain and/or inflammatory disease (including, but not limited to, arthritis). It will involve the application of known models and establishment of new ones relevant to novel drug targets. The ability to extract multiple levels of information from such models is particularly important (e.g., symptomatic, histological, biochemical, electrophysiological, behavioral).

**Pulmonary Diseases** — We seek two scientists to contribute to the discovery of new anti-asthma/allergy therapies. Current interests encompass the pharmacologic manipulation of leukocyte functions/interactions in models of airway inflammation/hyperreactivity. One position calls for experience with animal models of pulmonary disease and their mechanistic basis. Appropriate fields of training include physiology, pathology or pharmacology. Experience with methods and theory of pulmonary mechanics is especially desired. The second position will focus on immune cell regulation, with a particular emphasis on modulation of cytokines, receptors and signal transduction processes. Appropriate fields of training include immunology, biochemistry, cell biology or pharmacology. For this position, prior research on problems associated with immediate and delayed hypersensitivity reactions is desirable, but not required.

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