POSITIONS OPEN

ASSISTANT PROFESSOR: A new position will become available in January 1991 for a qualified individual who has demonstrated ability to conduct productive basic research in one of the following areas of tumor immunology: membrane structure and function, control of gene expression, cytoplasmic mechanisms. Minimal qualification will include a Ph.D. or M.D. degree with post-doctoral experience. Applications consisting of curricula vitae, a summary of research accomplishments, research plans, and three letters of recommendation should be sent to: Dr. Eva Lotzová, Chief, Section of Natural Immunity, Department of General Surgery, The University of Texas, M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Box 18, Houston, TX 77030. We are an Equal Opportunity/Affirmative Action Employer.

BROWN UNIVERSITY ASSISTANT PROFESSORS:

(1) MOLECULAR BIOLOGY

The Division of Biology and Medicine announces two full-time, assistant professor, tenure-track positions in a large, strong, interactive faculty unit which covers undergraduate and graduate programs in the biological sciences as well as the basic medical sciences for a 4-year continuum, the Program in Liberal Medical Education. We seek individuals with a doctoral degree, at least 2 years of post-doctoral training, potential for excellence in teaching, and the ability to develop an independent, externally funded research program. The appointments will begin July 1, 1991.

MOLECULAR GENETICS: Applicants should address their research central issues in prokaryotic or eukaryotic genetics. General teaching responsibilities include a graduate course in molecular biology and the development of undergraduate and graduate courses in molecular biology.

MOLECULAR PHARMACOLOGY: Applicants should address molecular structure-function relationships in such physiological targets of drugs as drug action, cell surface receptors, or enzymes, applying molecular biology techniques such as site-directed mutagenesis approach to protein function. General teaching responsibilities include a course for medical students as well as participation in undergraduate and graduate instruction.

Applications exist for interactions with a wide range of faculty in the Division of Biology and Medicine and in the university. Applicants should submit a resume including research and teaching experience, future research plans, and a list of publications; enclose representative reprints; and six letters of recommendation to: Dr. William W. Crothers, Department of Biology, Brown University, Providence, Rhode Island 02912.

PLANT BIOLOGY:

This is a 9-month, tenure-track position at the Assistant Professor level. The individual will be expected to develop a vigorous, externally funded research program, to work with graduate students and to teach one course in a sequence in plants, people, and the environment for non-science majors. Salary is negotiable. Send curriculum vitae, reprints, statement of research interests, and teaching philosophy, and three letters of recommendation by 15 December 1990 to: Dr. D. Crawford, Department of Biological Sciences, Illinois State University, 1735 Neil Avenue, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are strongly encouraged.
THE UNIVERSITY OF TEXAS AT DALLAS

The program in Cognition and Neuroscience in the School of Human Development at the University of Texas at Dallas is open to candidates without the availability of a faculty position in the area of neuroscience. We seek a cellular, systems, or behavioral neuroscientist with an interest in nervous system modeling and research and teaching expertise in the fields of mathematics and computation. Applicants should have a Ph.D. in a related discipline. The position is advertised at the ASSOCIATE PROFESSOR level, but a more senior appointment may be available for a highly qualified candidate.

Salary, teaching loads and research support are highly competitive. Information about the position and applications is available at: https://www.utdallas.edu/cogneuro/positions_open.html

BIOLOGIST. Nine-month, tenure-track position, rank of ASSOCIATE PROFESSOR, to begin 1 September 1991. Ph.D. in biology that includes a concentration in at least one of the following or related areas: developmental biology, molecular biology, evolutionary biology, with a commitment to undergraduate teaching. Teaching responsibility will be primarily in the areas of developmental and physiological genetics. Applications in the introductory survey biology program will be required as needed. Teaching upper division courses in area of specialization may be available on a limited basis. Completion of position is required by 1 January 1991. Submit letter of application, official transcript(s), three letters of recommendation, and current curriculum vitae to: Edward A. Faircloth, Department of Biology, Valdosta State College (VSC), Valdosta, GA 31698. VSC is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR ANIMAL PHYSIOLOGIST

The Department of Zoology at Arizona State University invites applications for a tenure-track position at the level of INSTANT PROFESSOR. Applicants should work at the molecular level, preferably with interests in membrane phenomena (e.g., hormone and transmitter receptors, ion channels, signal transduction, transport systems). Applications from other areas of molecular physiology will be considered. Candidates are expected to develop independent, externally funded research programs related to neurotransmitter and ion channel function. A Ph.D. degree is required, but experience as postdoctoral fellow will be considered. The successful candidate must have a Ph.D. and preferably postdoctoral experience. Please submit letter of application, curriculum vitae, three letters of recommendation, and a letter of application including a specific statement of research and teaching interests to: Dr. Richard E. Enns, Department of Zoology, Arizona State University, Tempe, AZ 85287-1801. Telephone: 602-965-3871. Deadline is 15 January 1991, or the 15th of each month thereafter until the position is filled. Projected starting date is 16 August 1991. Applications from two individuals for a single shared appointment will be considered. Arizona State University is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF MANITOBA

FACULTY OF DENTISTRY

ASSISTANT PROFESSOR

Applications are invited for a term position at the rank of assistant professor beginning 1 April 1991 in the Department of Oral Biology, University of Manitoba. The department is responsible for teaching basic biological sciences, together with related areas in dentistry, such as pharmacology, histology, and dental hygiene. Oral biology has active M.Sc. and Ph.D. programs and members of the department conduct research into connective tissue, mechanisms of bone resorption, endocrino-metabolism, salivary physiology, and microbial ecology and metabolism. Applicants should have a Ph.D. degree and be trained in microbial molecular biology and have a good knowledge of anaerobic microbiology and metabolism. The successful applicant will initially be expected to develop an active research program in the area of anaerobic bacteriology, ideally with an emphasis on cell surface structure. Salary commensurate with qualifications and experience will be offered.

The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, aboriginal peoples, and persons with disabilities. The university is committed to policies of and actions that encourage equal opportunity and non-discrimination. Priority consideration will be given to Canadian citizens and permanent residents.

Candidates should submit their curriculum vitae and an outline of their research goals and arrange for three letters of reference to be sent to: Dr. G. H. Bowden, Professor and Dean, Faculty of Dental Science, University of Manitoba, 780 Bannatyne Avenue, Winnipeg, Manitoba, Canada R3E 0W2. Deadline for applications is 1 February 1991.

ASSISTANT PROFESSOR

The Department of Pharmacogenetics, College of Pharmacy, University of Florida (UF), is searching for an assistant professor for a tenure-track position to join a department of pharmacologists and biologists with an emphasis in computational pharmacology (i.e., drug design), molecular biology, toxicology, and temperature regulation. Position will be available July 1991. Applicants should have a research interest in at least one of these areas and have three letters of reference sent by 15 February 1991 to: Dr. Maureen Keller-Wood, Chairman, Search Committee, Department of Pharmacognosy, Box J-487, JHMHC, University of Florida, Gainesville, FL 32610. UF is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST

The Institute of Chemical Toxicology, Wayne State University, is seeking to fill tenure-track faculty positions at the ASSOCIATE/FULL PROFESSOR level in the area of eukaryotic molecular biology. Preference will be given to applicants interested in regulation of gene expression to include those with experience in oncogenes, growth factors, retroviruses, and in the molecular/cellular effects of toxic substances and carcinogens (e.g., DNA repair). Applicants in other areas of eukaryotic molecular biology will be given serious consideration. The Institute of Chemical Toxicology offers a research-intensive environment and faculty are expected to develop vigorous, independent, externally funded research programs. Excellent new laboratories, equipment, support facilities, and generous start-up funds are available. Candidates should have a Ph.D., M.D., or D.V.M. degree and a strong track record in research. Send curriculum vitae and a brief description of research interests to: Dr. Raymond F. Novak, Institute of Chemical Toxicology, Wayne State University, 2272 Second Avenue, Room 4000 Detroit, MI 48201

Wayne State University is an Equal Opportunity/Affirmative Action Employer.
Two faculty positions at the ASSISTANT OR ASSOCIATE PROFESSOR level are anticipated for the fall of 1991. We seek a MICROBIAL GENETICIST to interact with an established, growing faculty of 23 in the Department of Biological Sciences, seven of whom have research interests in microbiology and molecular biology. The research is open. In addition, we seek a MARINE ECOLOGIST with strengths in population biology/genetics or ecology, through other specialties will also be considered. The position is effective July 1991 with duties commencing in September, and will be made at the assistant or associate professor level. Applicants with postdoctoral training, demonstrated excellence in research, and a commitment and ability to teach. Preference will be given to candidates in behavioral or systems neurobiology.

The successful candidate will be expected to establish a strong research program and teach undergraduate and graduate courses, and participate in the interdepartmental Neurosciences Program. To apply, send curriculum vitae, statement of research and teaching interests, copies of representative publications, and arrange to have three to five letters of recommendation by 15 January 1991 to: Neurobiology Search Committee, Department of Biology, University of California, Riverside, CA 92521.

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

EXPERIMENTAL BIOPHYSICS
CITY COLLEGE OF
CITY UNIVERSITY OF NEW YORK (CUNY)

The Physics Department of the City College of CUNY seeks an experimental biophysicist. Tenure track, any rank but prior ASSISTANT OR ASSOCIATE PROFESSOR experience required. Candidates will join NIH-sponsored research center involving several departments. Send curriculum vitae, description of research interests, and at least three reference letters to: Professor Philip Baumeil, Chair, Department of Physics, City College of New York, New York, NY 10031. Applications must be received by 1 February 1991 to receive full consideration. An Affirmative Action/Equal Opportunity Employer, M/F/H/V.

ASSISTANT/ASSOCIATE PROFESSOR MYCOTOXIN RESEARCH

The Department of Plant Pathology and Microbiology at Texas A&M University invites applications for a tenure-track position (50% research, 50% teaching) at the assistant or associate professor level. We seek an individual that will develop a vigorous research program addressing basic biological processes relating to mycotoxin production and its role in natural environments. This individual will also assume a lead role in the application of current technology for the reduction of mycotoxin contamination of human and animal foods. Successful applicants will be expected to have a role in the development of our undergraduate program in bioenvironmental science and teach a graduate course in this individual's area of expertise. Candidates with postdoctoral experience, record of scholarly research, and expertise in molecular biology, and/or microbial ecology will be given preference. Send curriculum vitae, reprints, statement of research and teaching interests, and names of three references to: Dr. Charles Kingery, Chair of Department of Plant Pathology and Microbiology, Texas A&M University, College Station, TX 77843.
DEPARTMENT OF VISION SCIENCES

CHAIR

The University is seeking to appoint an exceptional individual to make a major contribution to the development of research in Vision Sciences. Proven academic excellence and an ability to take a leadership role in research and attract funding are of paramount importance.

The new professor will have the opportunity to extend the Department's research, building upon the present strengths of the Department in Clinical Neurophysiology research and Ophthalmic and Physiological Optics. Candidates with a record of leadership in any area of Vision Sciences will be welcomed, provided they have an imaginative approach to collaboration both within the Department and with other University Departments such as Pharmaceutical Sciences; Computer Science and Applied Mathematics; Electrical Engineering and Applied Physics. Interest in strengthening links with outside organisations will be encouraged, particularly through participation in distance-learning via Aston's Centre for Extension Education.

The Department is housed in self-contained accommodation offering outstanding facilities and equipment.

Anyone wishing to discuss the post informally, from personal interest or to advise others, may approach Dr. A. D. Perris, Chairman of the Search Committee, or the Vice-Chancellor, Professor Sir Frank Craddock, Aston University, Aston Triangle, Birmingham B4 7ET; Telephone: 021-359 3611.

Participation in consultancy work will be encouraged. A continuing appointment, secondment, or limited-term contract will be considered, with appropriate remuneration.

Further information may be obtained from: The Personnel Officer (Academic staff), Aston University, Aston Triangle, Birmingham B4 7ET quoting reference number 9036/313.

ASTON UNIVERSITY

DIRECTOR, CANCER RESEARCH

The Upjohn Laboratories Division of the Upjohn Company is seeking applications for the position of Director, Cancer Research. The individual we are seeking to direct our multi-disciplinary cancer research program will be a distinguished scientist with a background in cellular/developmental biology, genetics or molecular biology with proven ability to lead research efforts and possessing a strong interest in antineoplastic drug discovery. The successful candidate will also maintain their own active research effort. Of particular interest are individuals applying molecular and cell biology efforts to the study of cellular growth and differentiation. Although direct experience in the biology of neoplasia is desirable, individuals with applicable experience and interests (e.g. signal transduction, cell adhesion, intercellular interactions) and ability to apply research findings to cancer therapy are also particularly encouraged to submit their curriculum vitae. A PhD and/or MD with an established record of scientific excellence as evidenced with publications and/or patents is necessary for this position.

At Upjohn, we are committed to the scientific development of our staff, participation in scientific publications, and participation at scientific meetings is encouraged. Our laboratories are located in downtown Kalamazoo, a mid-sized community in southwestern Michigan, midway between Detroit and Chicago. The region is surrounded by rolling hills, numerous lakes and woodlands and provides immediate access to abundant indoor and recreational pursuits. Upjohn offers a highly competitive compensation and benefits package in a community with reasonable housing and living costs. Qualified candidates are invited to submit their curriculum vitae, cover letters and list of publications to: The Upjohn Company, Corporate Recruiting/Position 5721-HA, 7000 Portage Road, Kalamazoo, MI 49001-0199. Please refer to position code 5721-HA in your correspondence. An Equal Opportunity Employer M/F.

Our Commitment To Scientific Excellence Continues...

23 NOVEMBER 1990
OIL SPILL EXPERT

Shell Oil Company in Houston, Texas has an employment opportunity for an oil spill expert. We're seeking an individual with several years experience, and a background in engineering or chemistry. The position requires working knowledge of oil spill technology, treatment chemicals, spill response, and scientific aspects of fate and effects of oil in the environment. M.S. or Ph.D academic credentials recommended. Candidate should have broad scientific background, and be skilled in personal communications and computers. Duties will include advising management, supporting emergency response teams, interfacing with government agencies, and managing oil spill related research. Salary range $60,000 and up, depending on experience and credentials.

Employment is contingent upon meeting the physical requirements of the job and satisfactory results from a drug screen.

If interested, please send your resume to:

B.E. Stubbs
Shell Oil Company
Dept. ENV
P.O. Box 2463
Houston, TX 77252

We are an equal opportunity employer. Candidates must be legally authorized to work in the United States.
**RESEARCH SCIENTIST**

**Crustacean Molecular Genetics**

The Australian Institute of Marine Science is seeking to appoint a scientist to undertake fundamental and strategic research as part of the mariculture research and development group concentrating on the genetic improvements of penaeid prawns. Applicants should have experience and interest in molecular genetics, particularly of genes controlling growth or reproduction of invertebrates.

The salary offered will be determined by the qualifications and experience of the successful candidate and will be within the range A$33,445 to A$40,916. Applicants should have appropriate post-graduate degrees and post-doctoral experience. Applications, including a complete curriculum vitae and the names of at least 3, but not more than 5 referees, should be forwarded to:

The Secretary  
Australian Institute of Marine Science  
PMB No. 3  
Townsville MC Qld 4810  
AUSTRALIA

For further information on the position, please contact Dr Joe Baker or Dr John Benzie. A description of selection criteria and conditions of employment can be obtained from the Personnel Manager.  
Telephone (6177) 78 9211, Facsimile (6177) 72 5852.  

AIMS is an equal employment opportunity employer.

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**Molecular Biologists**

Pfizer Inc is an international leader in the research and development of health care products. The Department of Molecular Genetics Research plays a vital role in the drug discovery research process. Thus, in addition to being integral members of an innovative research department, our molecular biologists also are important contributors of our drug discovery teams.

Our approach to drug discovery encourages individual creativity as an important element in guiding a team effort toward a therapeutic target. This philosophy results in an environment that is challenging to the individual while enhancing group productivity. Scientific growth and development are stimulated by frequent interactions with prominent scientists in academia and medicine as well as with members of the research community within Pfizer.

Due to the continuing expansion of the department, there are several positions for PhD molecular biologists. You are expected to have completed at least two years of post-doctoral studies and to have an excellent record of published research. In addition, candidates are required to provide three references which speak to their scientific innovation and independence.

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**cDNA Library Construction**

You should have proven expertise in the construction of cDNA libraries and the use of innovative screening strategies to identify novel genes. Experience in generating subtraction libraries and expression cloning would be distinct advantages.

**Transgenic Animals**

In recognition of the important role transgenic animals play in modeling a variety of human diseases, Pfizer is developing a transgenic animal group within the Molecular Genetics Department. You should be proficient in constructing transgenes and in the various techniques for generating transgenic animals.

We offer a stimulating research environment and an excellent opportunity for professional recognition and advancement. In addition, we provide a competitive salary/benefits package and an opportunity to live in an attractive Connecticut shore community. Qualified applicants should submit their resume and references in confidence to: Dr. Jerry K. Larson, Assistant Director, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

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**University of Geneva**

**FACULTY OF MEDICINE**

A position of:

**FULL PROFESSOR OR ADJUNCT PROFESSOR OF MEDICAL GENETICS**

in the Department of Molecular Genetics and Mirobiology is open for October 1991.

Candidates should have a large experience in medical genetics (clinic, research and genetic counseling). An academic appointment is desirable. Fluency of spoken and written French is required.

Information and application procedure is available from: Secrétariat de la Faculté de Médecine—Centre Médical Universitaire—1, rue Michel Servet—1211—Genève 4—Switzerland. Applications (curriculum vitae and list of publications in 10 exemplars) should be forwarded to the same address until December 31, 1990.
POSITIONS OPEN

CHAIRPERSON of the Department of Environmental Sciences/ASSOCIATE DIRECTOR, ENVIRONMENTS AND AGROECOSYSTEMS at the New Jersey Agricultural Experimental Station (NJAES), Cook College, Rutgers, The State University of New Jersey, New Brunswick, New Jersey.

The Environmental Sciences Department has a multidisciplinary teaching, research, and extension mission focused on the challenges to the environment. The 26-faculty department, one of the pivotal R.I., M.S., and Ph.D. degrees with specialties that include water and wastewater treatment, air pollution and industrial hygiene, soil science, fate and transport of pollutants in ecosystems, exposure assessment, and radiology.

Responsibilities: The appointee will provide leadership to achieve excellence in teaching, research, and public service by recruiting and developing an expanding and faculty, facilitating multidisciplinary and multidisciplinary team research, and identifying and attracting external research funding. As Associate director, the appointee will be responsible for programmatic leadership of all NJAES environmental programs. The Associate director is involved in program planning, attracting external funding, and coordinating the NJAES program with state and federal programs. A major responsibility is the development of multidisciplinary teams to study environmental problems. Rutgers serves as a member of NJAES director's executive staff.

Qualifications: The appointee will have a Ph.D. in a field aligned with program goals and a distinguished record of manuscripts, teaching, and internationally recognized research. Successful prior administrative experience in a higher education setting is highly desirable.

Send résumé to: Search Committee for Chairperson, Environmental Sciences Department, P.O. Box 231, Cook College, Rutgers, The State University, New Brunswick, NJ 08854.

Rutgers University is an Affirmative Action/Equal Opportunity Employer.

EXECUTIVE DIRECTOR

Tall Timbers Research Station conducts ecological research on natural resource management, wildlife habitat management, fire ecology, and game animals.

Candidates must have a thorough knowledge of ecological land management. They must demonstrate interest in the types of research Tall Timbers conducts. Administrative experience dealing with government and private foundations is required, in addition to an ability to foster relationships with the local community and other scientific institutions.

Each candidate must have a master's (preferably a doctoral) degree in some area of field biology and must possess strong knowledge of relevant research. Please send résumé to:

Search Committee
Route 1, Box 678
Tallahassee, FL 32312

Tall Timbers is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL SPECIALIST III: COORDINATOR. Salary range: $2337.38 to $3938.48 per month. Requirements: A bachelor's degree with a major in one of the physical or natural sciences or engineering and 3 years of professional experience in environmental protection, research, development of physical or natural sciences or engineering, or a master's degree in one of the physical or natural sciences or engineering and 2 years of professional experience as described above, or a doctoral degree in one of the physical or natural sciences or engineering; or 2 years of experience as an Environmental Specialist III or higher with the State of Florida.

Job Duties: Preference will be given to applicants with experience in writing, reviewing, and editing manuscripts on marine fisheries or marine ecology and in experimental design and biological of test. Candidate's primary job will be editing papers and reports for scientific content, syntax, and proper grammar. The candidate must have a good command of the computer and word-processing skills, and proficiency in editing for proper grammar, style, and usage; and be familiar with publishing procedures. Send State of Florida application to: Personnel Florida Marine Research Institute, 100 Eighth Avenue, Southeast, St. Petersburg, FL 33701-5095. Deadline: by 5:00 p.m., 10 December 1990. Send résumé to: Search Committee for Chairperson/Environmental Specialist III Coordinator. Phone: 727-453-2500. FAX: 727-453-2813.

Application should include a letter indicating the position being applied for, curriculum vitae, a statement of research and teaching interests, three letters of recommendation, and prints of three representative publications. The closing date for all applications is 15 January 1991. Send applications to: Dr. Jon D. Dunn, Professor and Head, Department of Anatomy and Physiology, VMS 228, College of Veterinary Medicine, Kansas State University, Manhattan, KS 66506. Kansas State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CHAIRPERSON of the Department of Environmental Sciences/ASSOCIATE DIRECTOR, ENVIRONMENTS AND AGROECOSYSTEMS at the New Jersey Agricultural Experimental Station (NJAES), Cook College, Rutgers, The State University of New Jersey, New Brunswick, New Jersey.

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 Responsibilities: The appointee will provide leadership to achieve excellence in teaching, research, and public service by recruiting and developing an expanding and faculty, facilitating multidisciplinary and multidisciplinary team research, and identifying and attracting external research funding. As Associate director, the appointee will be responsible for programmatic leadership of all NJAES environmental programs. The Associate director is involved in program planning, attracting external funding, and coordinating the NJAES program with state and federal programs. A major responsibility is the development of multidisciplinary teams to study environmental problems. Rutgers serves as a member of NJAES director's executive staff.

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Bristol-Myers Squibb Pharmaceutical Research Institute

Postdoctoral Fellow Program

The Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand its efforts in basic biomedical research. New research laboratories are currently under construction at our research headquarters in Princeton, New Jersey. More than at any time in the past, our commitment to basic biomedical research, both at the Institute and through our academic research alliances has never been stronger.

Our Postdoctoral Fellowship Program offers outstanding opportunities for scientists to gain significant postdoctoral training in the basic research programs pursued at the Institute and in collaboration with our research alliances. Postdoctoral Fellowships are awarded for 1-3 years.

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**MOLECULAR BIOLOGY**

Remesh Kumar, Ph.D.

This position is involved with research projects involving the analysis of genes encoding tyrosine phosphatases and their regulation in lymphocytes and other cells. Requires experience in one of the following: molecular biology, T-cell biology and/or biochemistry. Experience with DNA cloning, expression, T-cell development/activation, PCR and sequencing is required. Reply to: Dept. # 178A.

Michael Rosenberg, Ph.D.

Two post-doctoral positions are available in a basic research developmental genetics laboratory studying proto-oncogene expression and function during gametogenesis and embryogenesis of the mouse. The laboratory utilizes both transgenic mouse and E5 cell technologies, insertional mutagenesis, and in situ hybridization. Candidates should have a background in either developmental genetics, molecular genetics, reproductive biology, or cell biology. Reply to: Dept. # 178B.

**MACROMOLECULAR CRYSTALLOGRAPHY**

Dr. Steven Sherrif

Antibody-Antigen Complexes - study molecular recognition using antibody-antigen binding as a model system. Antigens include proteins such as lysozyme and staphylococcal nuclease and small molecules including digitoxin. Reply to: Dept. # 178E.

Dr. John Sack

Calmodulin - Study the structural effects of various mutations on the calcium-binding protein, calmodulin, in order to understand the biochemical activity of the mutant proteins. Reply to: Dept. # 178F.

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**MOLECULAR BIOLOGY OF MACROMOLECULES**

Shi Chung Ng, Ph.D.

This position is responsible for applying existing gene expression systems in bacillus and E. coli to maximize expression of antibody fragments (Fv and sFv). Your focus will include systems for bifunctional and chimeric monoclonal antibody fragments constructed by recombinant DNA technology. Requires experience in Molecular Biology or related field in gene expression. Reply to: Dept. # 178C.

**NMR SPECTROSCOPY**

Dr. Luciano Mueller

Elucidate structures and dynamics of proteins and their complexes to DNA and ligands, develop NMR methods, in particular, heteronuclear multi-dimensional spectroscopy. Reply to: Dept. # 178D.

**MACROMOLECULAR CHEMISTRY**

Gary Matsueda, Ph.D.

Opportunities in the organic chemistry of peptide synthesis - development of new protecting groups and peptide-resin linkages; and in the immunochemistry and protein biochemistry of Factor XIII and other transglutaminases. Reply to: Dept. # 178G.

**CELL BIOLOGY**

Richard Gregg, M.D.

Position available in a large, integrated research group investigating the regulation of lipid and lipoprotein metabolism. In this position, you will perform research into the mechanism and regulation of the assembly and secretion of macromolecular complexes within the endoplasmic reticulum. The approaches to the research will rely upon molecular and cellular biological techniques. Reply to: Dept. # 178H.

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In addition to a comprehensive salary and benefits program, we offer the opportunity to participate in a variety of seminars and symposia; work on non-proprietary research projects and require publication of research results.

Please forward your resume to (including dept. code#): Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.
...widening the therapeutic window.

Staff Scientist in Cell Biology
Candidate should hold a Ph.D. in cell biology, immunology or related disciplines and have a strong research background in mammalian cell biology or in-vitro immunology. Recent graduates are welcome to apply.

Research Associates
Two research positions at B.S./M.S. level are available in our Pharmacology/Toxicology department to develop and utilize animal models for evaluating safety and efficacy of immunonjugates for cancer therapy. Applicants should have between 1-5 years of laboratory experience in the fields of tumor biology, immunology, pharmacology and/or tissue culture. Attention to detail, good communication skills and the ability to work with minimal supervision are essential.

ImmunoGen offers an excellent salary and benefits package including 100% paid Health and Dental Insurance and Tuition Assistance. The company is located in a new, fully equipped, state-of-the-art laboratory in Cambridge, midway between the campuses of HARVARD and MIT.

Please send a detailed resume including three references and a statement describing your scientific interests and career goals. All responses will be acknowledged. Reply to:

Jeanne A. Horgan
Personnel Department
ImmunoGen, Inc.
148 Sidney Street
Cambridge, MA 02139.

BIOLOGICALS

We're Lederle Laboratories, a division of American Cyanamid Company and an international leader in the research, development and manufacture of viral and bacterial vaccines. Right now, we are seeking two scientists to join the Biologicals Research and Development Group at our Rockland County facility.

Ph.D. Scientist Quality Control
Interacting with Research and Clinical, you will be responsible for developing cell culture and immunological assays for use in quality control testing of current and new vaccines.

A Ph.D. and two years of post-doctoral experience in Virology, Microbiology or Immunology are required; experience with computers and microprocessed instruments desirable.

Biochemist/Microbiologist
Bacterial Vaccine Production Supervisor
Experience in polysaccharide and protein purification, bacterial fermentation and immunochemoical and biochemical assays is required as are a BS in Biochemistry, Microbiology or other related field and supervisory experience. At least four years of production or laboratory experience and familiarity with GMPs and FDA regulations is also essential; an MS degree is preferred.

We offer a state-of-the-art facility just 25 miles north of New York City, competitive salaries and excellent benefits. For consideration, please forward your resume indicating position of interest, with salary history, in confidence, to: Daniel Nemeczek, Professional Employment Representative, Lederle Laboratories, American Cyanamid Co., Pearl River, NY 10965. An equal opportunity employer m/f.

Dedicated People Dedicated To People Since 1906.

IMMUNOGEN, INC.

An Equal Opportunity Employer.

POSITIONS OPEN

ENTOMOLOGY CURATOR. Applications solicited for assistant or associate curator. Responsibilities consist of collections-oriented research on the systematics of a group of insects or arachnids, active participation in management of a major collection, development of external funding for research and collections, and participation in public program activities. Doctorate required, special consideration given to specialists in orders other than Hymenoptera, Diptera, and Lepidoptera. Send curriculum vitae, description of research interests, collection management and public program experience, grant/contract funding, and names of three references by 1 Februray 1991 to: Dr. Charles Hose, Entomology Section, Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007. Telephone: 213-744-3363. An Equal Opportunity Employer.

FACULTY POSITION IN PROTEIN STRUCTURE/FUNCTION

The Department of Biochemistry, Baylor College of Medicine, is seeking highly qualified faculty candidates with a research interest in some aspect of modern protein structure and function. Appointment is anticipated at the tenure-track ASSISTANT PROFESSOR level, although applications from more senior investigators will be considered. This position provides recent renovated laboratory space, institutional start-up funding, limited teaching requirements, and an excellent opportunity to build a research program within a large and interactive research community. The candidate must have demonstrated excellence in research and is expected to develop a strong, independent research program and participate in graduate and medical education. The department has approximately 30 faculty, 40 Ph.D. students, and 40 postdoctoral fellows and provides a stimulating and supportive environment for academic research and education. Applicants should send curriculum vitae, reprints of recent publications, a statement of future research plans, and arrange for three letters of recommendation to be sent to: Proteins Search Committee, Department of Biochemistry, Baylor College of Medicine, Houston, TX 77030. Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.

THREE FACULTY POSITIONS, ANIMAL BIOLOGY. As part of our expanding program, the Department of Biological Sciences invites applications for three full-time, tenure-track positions at the ASSISTANT PROFESSOR rank. We seek individuals utilizing molecular and cellular skills in invertebrate or vertebrate systems in the areas of developmental biology, genetics, and endocrinology. Applicants must have the Ph.D., postdoctoral research experience, and teaching competence. Successful candidates are expected to develop externally funded research programs and engage undergraduate and graduate students in research. Competitive start-up funds will be provided. Review of applications will begin 1 December 1990 and continue until the positions are filled. Send a letter of application, curriculum vitae, reprints, statement of research goals, and three letters of reference to: Dr. H. Bernard Hartman, Chairman, Department of Biological Sciences (DGE), Duquesne University, Pittsburgh, PA 15282. Duquesne University, an Affirmative Action/Equal Opportunity Employer, strongly encourages applications from women and minority candidates.

BIOCHEMISTRY/MOLECULAR BIOLOGY. The North Central College Biology and Chemistry Departments seek a broadly trained person to teach biochemistry and molecular biology, and to be involved in introductory courses in both departments. Ability to teach cellular biology a plus. This tenure-track joint appointment starts September 1991. Ph.D. and commitment to excellence in undergraduate teaching and research within a liberal arts setting required. For more detail, call: Dr. Paul Sutton at 708-420-3492. North Central College is a comprehensive institution of 2600 students located 30 miles west of Chicago in the heart of Illinois' Research and Development corridor. Send letter of application, curriculum vitae, graduate and undergraduate transcripts, and have three letters of recommendation sent to: Meredith Russell, Secretary to the Biology/Chemistry Search, North Central College, N.O. Box 3063, Naperville, IL 60566. Review of applications begins 7 January 1991 and continues until the position is filled. We particularly welcome applications from women and minorities. Equal Opportunity Employer.

SCIENCE, VOL. 250.
POStitions open

Clarkson University is seeking applications for a TEnURE-TRACK POSITION IN CELL BIOLOGY. The successful applicant should possess a Ph.D. or equivalent, and have at least 2 years of postdoctoral experience. Applicants interested in the biochemical or molecular analysis of intracellular regulatory processes in eukaryotes are especially encouraged to apply. Interaction with established investigators in one or more of the following areas is expected: microbial physiology/molecular biology, developmental/cellular neurobiology, toxicology, genetics. Area of teaching is flexible, but applicants should be able to contribute to an undergraduate cell biology core course, as well as providing upper level and graduate courses in the area of specialty. Send curriculum vitae, brief statement of research interests, and names of three references to: Dr. A. E. Linkins, Dean, School of Science, Clarkson University, Potsdam, NY 13699-5800. Review of applications will begin 1 January 1991 and continue until position is filled. Clarkson University is an Affirmative Action/Equal Opportunity Employer. Position Posting #230.

FACULTY POSITIONS
McMASTER UNIVERSITY
INSTITUTE FOR MOLECULAR BIOLOGY AND BIOTECHNOLOGY

The newly inaugurated Institute for Molecular Biology and Biotechnology seeks to build a group composed of independent, but interactive scientists interested in the molecular biology of development. Three positions are available at the ASSISTANT OR ASSOCIATE PROFESSOR level. Applications are invited from molecular and developmental biologists whose research interests include but are not limited to the role of oncoproteins in development, the regulation of gene expression, growth and differentiation factors, and gene targeting in embryonic stem cells. Candidates should hold a Ph.D. or M.D. degree and have a minimum of 2 years of postdoctoral experience.

Successful candidates will be provided with newly renovated laboratories, start-up funding, an operating grant and salary support from McMaster University and from a Terry Fox Team Development Grant awarded by the National Cancer Institute of Canada.

Applicants should send a current curriculum vitae, a statement describing their research accomplishments and future goals, and the names of three references to: Dr. John A. Hassell, Institute for Molecular Biology and Biotechnology, McMaster University, 1280 Main Street West, Hamilton, Ontario, Canada, L8S 4K1.

FACULTY POSITIONS
DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY
THE UNIVERSITY OF CHICAGO

The Department of Biochemistry and Molecular Biology at The University of Chicago wishes to invite applications and nominations for two tenure-track positions to be filled in the 1990–1991 academic year. We are directing our current search to two specific areas: (1) the study of biological macromolecules by two-dimensional NMR and the biochemistry of nucleic acid-protein interactions. Candidates should have a doctoral degree, significant postdoctoral research experience, a strong record of research accomplishment, and demonstrable potential for the development of an independent research career in an academic setting. Applications should include curriculum vitae, a list of publications, a summary of current research activities and future research plans, and a statement of research accomplishments and future goals. The names of at least four individuals from whom letters of reference may be solicited. While we have no formal deadline, we would appreciate receiving applications by 15 January 1991. Please send applications or nominations to:

Marvin W. Makinen
Department of Biochemistry and Molecular Biology
The University of Chicago
Chicago, IL 60637

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

POSTDOCTORAL POSITION: To study the molecular mechanism of a virus fusion reaction. Experience in molecular biology, protein biochemistry and/or virology is desirable. Available winter-spring 1991. Please send curriculum vitae and names of three references to: Dr. Margaret Kielland, Department of Cell Biology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. An Equal Opportunity Employer.

WILDLIFE EXPERT

Shell Oil Company in Houston, Texas has an employment opportunity for a terrestrial ecologist/wildlife expert. We’re seeking an individual with a background in terrestrial ecology or wildlife science and several years experience. Secondary skills should include good chemistry background and statistics. Similar related backgrounds will be considered. The position requires working knowledge of general ecological principles as they relate to the terrestrial environment. M.S. or Ph.D academic credentials recommended. Candidate should have broad scientific background. Previous experience with the following is a plus: working with regulatory agencies; environmental monitoring design; skilled in personal communications, microcomputer skills. Duties will include advising management, supporting emergency response teams, interfacing with government agencies, managing environmental research programs, and participation in industry environmental committees. Salary range $60,000 and up, depending on experience and credentials.

Employment is contingent upon meeting the physical requirements of the job and satisfactory results from a drug screen.

If interested, please send your resume to:

B.E. Stubbs
Shell Oil Company
Dept. ENV
P.O. Box 2463
Houston, TX 77252

We are an equal opportunity employer. Candidates must be legally authorized to work in the United States.

COMPUTATIONAL CHEMISTRY IS OUR KEY TO INNOVATION.

ARRIS Pharmaceutical Corporation is an aggressive new company with a unique approach to computer aided drug discovery. We are looking for innovative Computational Chemists to work on exciting discovery projects based on the latest developments in molecular biology. You’ll team up with AI scientists who are experts in pattern and shape recognition in a unique environment, where we are exploring new ways of designing drugs.

Senior Scientist

This key member of our group will bring 5-10 years of pharmaceutical industry experience in the area of molecular modeling of proteins and small organic molecules.

Scientists

We are seeking PhD Scientists with a minimum of 2 years’ postdoctoral experience in molecular dynamics.

Send your vitae to: ARRIS Pharmaceutical Corporation, P.O. Box 2603, South San Francisco, CA 94080. An Equal Opportunity Employer.

ARRIS Pharmaceutical Corporation

23 NOVEMBER 1990
PLANT PHYSIOLOGIST, SOUTHERN REGIONAL RESEARCH CENTER, NEW ORLEANS, LOUISIANA

The Cotton Fiber Bioscience Research Team is seeking a plant physiologist to join a group analyzing cotton fiber growth and development and cotton fiber quality. The successful candidate will be responsible for determining the mechanisms involved in cotton fiber elongation and maturation, including relationships between fiber elongation and secondary wall synthesis, determining the role of the cytoskeleton in fiber development, analyzing single fiber mechanical properties and developmental processes, and correlating fibrous properties with fiber quality parameters. Requirements include a Ph.D. with knowledge in plant physiology and biochemistry, electron microscopy, immunocytochemistry, and cell and molecular biology, especially wall synthesis and cell elongation. Salary is commensurate with experience, CGS $12-13 ($35,000 to $55,000). For further information, contact: Dr. Donna Gibson, 504-286-4430, or Dr. Barbara Triplett, 504-286-4275. For information on additional positions and for the position: Judy Harrington, 314-344-1806, by 15 December 1996. Applicants will be asked to include a letter of interest and three reference letters. Applications will be reviewed immediately, and position may be filled prior to closing date.

POSTDOCTORAL POSITION. Available to study the molecular biology of white winterystem coronavirus and immunity to these viruses in cattle. Relevant experience in immunology and training in molecular virology including monoclonal antibodies and nucleic acid hybridization is desired. Send resume and 3 reference letters to: Dr. J. L. Straw, Dairy 400 Agricultural Research Center, ARS/DO/Dairy Center, 201 Allis Laboratory, Pennsylvania State University, University Park, PA 16802.

POSTDOCTORAL POSITION. Available immediately to participate in research on biochemical, molecular, and genetic studies of DNA replication and repair in the simple eukaryote, Drosophila melanogaster. Strong background in molecular biology and/or biochemistry preferred. Send curriculum vitae and 3 reference letters to: Dr. R. A. Deering, Molecular and Cell Biology, 201 Allis Laboratory, Pennsylvania State University, University Park, PA 16802. An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITIONS. Available in a laboratory studying subcellular distributions and modifications of GTP-binding regulatory proteins (see J. Biol. Chem. 262, 9698) for positions in our group, which will involve a variety of cell and molecular biological techniques including those of recombinant technology, site-directed mutagenesis, and transfection. Please send curriculum vitae and description of experience to: Dr. David Manning, School of Medicine, University of Pennsylvania, Philadelphia, PA 19104-6084.

POSTDOCTORAL POSITION. For research in uricologic aspects of infertility and incontinence. Will work closely in collaboration with the medical faculty. Training in endocrinology and/or physiology desired. Send curriculum vitae to: Joseph R. Drago, M.D., or M. Guild Wejchel, Ph.D., Division of Urology, Ohio State University, 456 West 10th Avenue, Columbus, OH 43210. Telephone: 614-292-4055. The Ohio State University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION PREIMPLANTATION GENETICS

The Genetics and IVF Institute seeks a scientist who will focus on genetic testing of human preimplantation embryos. The person selected will develop molecular tests for several inherited disorders, and will collaborate with our clinical teams in the preimplantation testing program. Responsibilities include: genetic counseling and molecular genetic testing of embryos. Experience in clinical genetics, and knowledge of molecular genetic testing is essential. Biochemistry and cell biology background is also a plus. Send curriculum vitae and 3 reference letters to: Anna Maddalena, Ph.D., Molecular Genetics Laboratory, Genetics and IVF Institute, 3020 Javer Road, Fairfax, VA 22033.

POSTDOCTORAL POSITION. Available immediately for studies of mitochondrial membrane transport proteins. Of particular interest is the transport of a large transport protein (PTP) which has been suggested to act also as a receptor for the import of nuclear-coded proteins into mitochondria (Nature 347, 424 (1990)). The protein is being cloned, purified, and characterized. Mutants are being generated from its gene in yeast. Individuals with training in molecular biology and/or in (membrane) molecular biology are invited to send their curriculum vitae and names of three references to: Dr. Hartmut Wohlrab, Baltimore Biomedical Research Institute, 2800 Otis Street, Baltimore, MD 21211.

POSTDOCTORAL POSITIONS. Are available and anticipated in NIH funded projects on control of gene expression in protozoan parasites. The projects are investigating the role of: 1) cAMP, cGMP, and cGMP; and 2) mitogen-activated protein kinases. Associated with: 1) chromatin structure and function; and 2) the structure and function of the cAMP receptor regulatory subunit. For information on available positions: Dr. G. W. Wientjes, ARS/DP/Animal Nutrition Research Unit, 1176 W. 14th Street, Stuttgart, AR 72960. Phone: 501-679-4100.

POSTDOCTORAL POSITION. Available immediately for studies on the role of cytoskeleton in fiber elongation and maturation. Experience in molecular biology and cell biology is required. Send curriculum vitae and three letters of recommendation to: Dr. J. A. Bogan, Biomedical Research Institute, 2800 Otis Street, Baltimore, MD 21211. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available immediately to study the role of the cytoskeleton in fiber elongation and maturation, analyzing single fiber mechanical properties during wall synthesis, and correlating fibrous properties with fiber quality parameters. Requirements include a Ph.D. with knowledge in plant physiology and biochemistry, electron microscopy, immunocytochemistry, and cell and molecular biology, especially wall synthesis and cell elongation. Salary is commensurate with experience, CGS $12-13 ($35,000 to $55,000). For further information, contact: Dr. Donna Gibson, 504-286-4430, or Dr. Barbara Triplett, 504-286-4275. For information on additional positions and for the position: Judy Harrington, 314-344-1806, by 15 December 1996. Applicants will be asked to include a letter of interest and three reference letters. Applications will be reviewed immediately, and position may be filled prior to closing date.

POSTDOCTORAL POSITION. Available immediately to study the role of the cytoskeleton in fiber elongation and maturation, analyzing single fiber mechanical properties during wall synthesis, and correlating fibrous properties with fiber quality parameters. Requirements include a Ph.D. with knowledge in plant physiology and biochemistry, electron microscopy, immunocytochemistry, and cell and molecular biology, especially wall synthesis and cell elongation. Salary is commensurate with experience, CGS $12-13 ($35,000 to $55,000). For further information, contact: Dr. Donna Gibson, 504-286-4430, or Dr. Barbara Triplett, 504-286-4275. For information on additional positions and for the position: Judy Harrington, 314-344-1806, by 15 December 1996. Applicants will be asked to include a letter of interest and three reference letters. Applications will be reviewed immediately, and position may be filled prior to closing date.

APPLICATIONS ARE INVITED FOR THE FOLLOWING POSTDOCTORAL RETRAINING FELLOWSHIP PROGRAMS, which are currently supported by the National Institute of Environmental Health Sciences. Fellows will be selected on the basis of their potential for excellence in environmental health sciences and their commitment to a career in environmental health sciences. Fellows will receive a study period of up to 3 years during which they will be afforded training in a discipline that is relevant to the use of environmental health sciences in the assessment, prevention, and control of human illness and injury. Fellows will receive a stipend of $30,000 per year and a travel allowance of $1,000 per year. Applications are due by December 1, 1996. For further information, contact: Dr. Michael C. Moore, Chair, MATG Fellow Search Committee, Department of Zoology, Arizona State University, Tempe, AZ 85287-1801. Telephone: 602-965-3571.

MATG POSTDOCTORAL FELLOW IN ZOOLOGY

ARIZONA STATE UNIVERSITY

Two-year postdoctoral research fellowship emphasizing collaborative research with a faculty member in the laboratory. Applicants are encouraged to submit information and application forms, which must include a research plan developed in consultation with a faculty sponsor, are available from: 1. Fellows must be at least 2 years past receipt of a Ph.D. Students who have received a doctoral degree prior to 1987 and must not currently hold a permanent faculty position. Application deadline is January 31, 1996. Applications from two individuals willing to share the position will be considered. Arizona State University is an Equal Opportunity/Affirmative Action Employer. Contact: Dr. Michael C. Moore, Chair, MATG Fellow Search Committee, Department of Zoology, Arizona State University, Tempe, AZ 85287-1801. Telephone: 602-965-3571.

POSTDOCTORAL FELLOWSHIPS AT THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)

My laboratory is moving to the Department of Biology at MIT in July 1991 and will have a position for a highly motivated postdoctoral fellow who could collaborate on the crystallographic study of protein/DNA complexes and help set new directions for the laboratory. The candidate should have a Ph.D. and is interested in using structural data to help design new DNA-binding proteins and is interested in helping to develop new methods for studying DNA complexes. For further information, please contact: Carl O. Pabo, Department of Molecular Biology and Genetics, John Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205 (telephone: 301-955-3697; FAX: 301-955-0831; BITNET: PABO@JHUJIGF).

POSTDOCTORAL FELLOWSHIP IN CARDIOVASCULAR BEHAVIORAL MEDICINE

The Department of Psychiatry, University of California, San Diego invites applications for a 1 to 2 year postdoctoral fellowship to pursue research on the human behavioral physiology of blood pressure regulation. The applicant should have a Ph.D. degree with broad interdisciplinary training. Skills in any of the following areas would be particularly valuable: neuroendocrinology, receptor physiology, psychophysiology, coding of nonverbal behavior, biostatistics, or behavioral medicine. We seek a recent Ph.D. who has demonstrated exceptional promise for excellence as a scholar and who is able to connect broadly diverse research inquiries. Applicants should be interested in independent research and should provide curriculum vitae as well as a personal statement regarding their qualifications for the position. Files should be submitted by 31 January 1991. The position becomes available late spring or early summer 1991. Forward correspondence to: Joel E. Dimond, M.D., Department of Psychiatry, 22225 Allison Court, La Jolla, California 92037-0080. UCSD is an Equal Opportunity/Affirmative Action Employer.

APPLICATIONS ARE INVITED FOR THE FOLLOWING POSTDOCTORAL RETRAINING FELLOWSHIP PROGRAMS, which are currently supported by the National Institute of Environmental Health Sciences. Fellows will be selected on the basis of their potential for excellence in environmental health sciences and their commitment to a career in environmental health sciences. Fellows will receive a study period of up to 3 years during which they will be afforded training in a discipline that is relevant to the use of environmental health sciences in the assessment, prevention, and control of human illness and injury. Fellows will receive a stipend of $30,000 per year and a travel allowance of $1,000 per year. Applications are due by December 1, 1996. For further information, contact: Dr. Michael C. Moore, Chair, MATG Fellow Search Committee, Department of Zoology, Arizona State University, Tempe, AZ 85287-1801. Telephone: 602-965-3571.
The Australian Institute of Marine Science seeks to appoint two experienced scientists to undertake fundamental and strategic research on oceanographic, biogeochemical and ecological problems of an inter-disciplinary nature. Program research activities are primarily orientated toward field and numerical studies of systems - level phenomena and processes in tropical marine systems.

Interested applicants should seek further information on the positions and the Institute by contacting either Dr. Miles Furnas or the Personnel Manager by telephone +61 77 789211, facsimile +61 77 725852 or AIMS.AUSTRALIA/OMNET.

Applications close on 31st January 1991 with the Secretary, Australian Institute of Marine Science, PMB No. 3, Townsville MC, Queensland, Australia 4810.

AIMS is an equal employment opportunity employer.
The Health Effects Institute announces its third set of Requests for Applications (RFAs) of 1990. The Health Effects Institute is a non-profit corporation that supports studies to evaluate the health effects of automotive emissions. It is funded jointly by the U.S. Environmental Protection Agency (EPA) and the automotive industry. Current research is investigating the health effects of a wide variety of pollutants, including methanol, carbon monoxide, ozone, and diesel emissions.

Applications are now being solicited for research in the following area:

**RFA 90-6: Theoretical Approaches to the Analysis of Health Effects of Complex Mixtures**

Development of theoretical approaches to the analysis of complex mixtures which describe the following:

- The development of separation methods to isolate components of complex mixtures.
- The development of methods which can be used to determine interactive effects of toxic compounds.

Preliminary applications are also being solicited for other research designed to assess health effects of automotive emissions.

Materials describing the Health Effects Institute, the preparations of applications, and more specific details of the research topics are available.

Requests and inquiries should be directed to:

**Dr. Jane Warren,**
**Director of Research**
**The Health Effects Institute**
141 Portland Street, Suite 7300
Cambridge, MA 02139
Telephone: (617) 621-0266

Letters of intent for RFA 90-6 should be submitted no later than January 22, 1991. Applications for RFA 90-6 will be accepted until February 25, 1991. Preliminary applications will be accepted at any time.

The Health Effects Institute
RESEARCH ASSOCIATES

Amgen has emerged as a leader in the development of human therapeutic products through applications of biotechnology. Our success in the development of human erythropoietin for the treatment of anemia associated with end stage renal disease has placed us at the forefront of the biotechnology industry. As a result of our continued commitment to research, we have several opportunities for experienced Research Associates to contribute to the development of a number of research programs at Amgen.

PROTEIN CHEMISTRY
Responsibilities for this position will include isolation and characterization of glycoproteins and oligosaccharides. Qualified candidates must have a Bachelor's degree in a relevant discipline and a minimum of two years' experience in the purification of proteins. Experience with HPLC, FPLC and other liquid column chromatography methods as well as with basic methods for the analysis and separation of proteins is essential. Knowledge of glycoprotein and oligosaccharide biosynthesis and characterization is desirable.

MOLECULAR BIOLOGY
We currently have several opportunities for individuals to participate in a variety of research programs leading to the cloning, expression and characterization of various cellular growth factors. Applicants for these positions must have a Bachelor's or Master's degree and a minimum of two years' experience in basic molecular biology techniques including recombinant DNA technology and mammalian tissue culture. Experience in various bioassays, viral titration and mammalian cell transfection is highly desirable.

Amgen offers a stimulating and challenging research environment on the leading edge of the biotechnology industry. Our commitment to excellence in research has created a truly unique environment that fosters scientific creativity. Our location northwest of Los Angeles offers all the advantages of living in Southern California without the concerns typically associated with the Los Angeles area. We also offer an excellent compensation and benefits package with extensive relocation assistance.

If you have the necessary qualifications and would like to be a part of a company that places a high value on both research and its human resources, please send a resume, in confidence, to:

AMGEN, INC.
Recruitment, Dept. #560
Amgen Center
Thousand Oaks
CA 91320-1789

Equal Opportunity Employer

Postdoctoral Researchers

Genentech, a leader in the field of biotechnology, has two exceptional opportunities for Postdoctoral Researchers in our Protein Chemistry and Mass Spectrometry groups.

The first position involves the optimization of electrospray ionization for high sensitivity measurement of peptides and proteins on single and triple-quadrupole mass spectrometers. These studies will include on-line separations by HPLC and CZE as well as sequencing by Tandem mass spectrometers. The second position will study the mechanisms involved with the control of hormone secretion from pituitary and neurological tissues. Both openings require a Ph.D. in Biochemistry, Chemistry or a related field and similar experience.

Genentech offers an excellent salary and benefits package.

For immediate consideration, please send your resume with 3 references to Yvonne Davino, Genentech, Inc. Dept. STDV, 460 Point San Bruno Blvd., South San Francisco, CA 94080. EOE.

FACULTY POSITION
INSTITUTE FOR BIOMOLECULAR SCIENCE
UNIVERSITY OF SOUTH FLORIDA

The University of South Florida Institute for Biomolecular Science, a multidisciplinary consortium of University faculty and scientists, invites applications for a tenure-track position at the level of Assistant or Associate Professor. Candidates should have a Ph.D. in biochemistry, molecular biology or related discipline with a minimum of three years postdoctoral research experience. This is one of four positions which will be filled by the Institute over the next two years as part of a State-funded expansion program. The position is funded through the Institute, with academic appointment in the Department of Biochemistry and Molecular Biology in the College of Medicine. Excellent laboratory facilities, startup funds and opportunities for collaboration are available. Ticles and salary (nationally competitive) will be commensurate with qualifications and experience with preference for entry-level candidates. This position offers an excellent opportunity for professional growth in an attractive living and working environment.

Duties of the position include establishment of a strong, independent research program in an area which complements current needs and interests of the Institute and the Department; participation in graduate and medical student teaching programs; directing graduate students; and contributing in the area of university and professional service. Selection of final candidates will be based on: 1) research accomplishments and publication record, 2) area of proposed research in relation to current research programs and interests, 3) potential contributions to teaching and graduate programs, 4) letters of evaluation, 5) grant support (for candidates currently holding a faculty-level appointment). Applicants should send a curriculum vitae; a statement of research interests, accomplishments and future plans; and reprints of representative recent publications. Candidates should also arrange for three letters of recommendation to be forwarded. Deadline for receipt of applications is February 15, 1991. Address all materials and correspondence to:

IBIS Faculty Search Committee
c/o Dr. R. Kennedy Keller
Dept. of Biochemistry and Molecular Biology - MDC 7
12901 Bruce B. Downs Blvd.
University of South Florida
Tampa, Florida 33612-7799

The University of South Florida is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities, women and the handicapped.

AMGEN
POSTDOCTORAL RESEARCH ASSOCIATES
The Cell Biology Laboratory, investigating cellular and molecular mechanisms of growth and differentiation of human epithelial cells, is seeking research associates to study molecular mechanisms of epithelial cell immortalization and transformation in vitro. Applicants are expected to have previous experience in epithelial cell culture, cell fractionation, transfection of cells with subgenomic DNA, and other molecular biology techniques. Please send curriculum vitae and names and addresses of three references to Dr. D. P. Cho, Department of Molecular Genetics and Cell Biology, the University of Chicago, 920 East 56th Street, Chicago, IL 60637.

MICHIGAN STATE UNIVERSITY
POSTDOCTORAL RESEARCH ASSOCIATE
The Department of Biochemistry is seeking candidates for a postdoctoral position to study the role of nuclear factor KB in protein metabolism. Applicants should have a Ph.D. in Biochemistry or related field and postdoctoral experience. Please send curriculum vitae and names of three references to: Dr. P. R. G behaviour, Department of Biochemistry, Michigan State University, East Lansing, MI 48824.

UNIVERSITY OF CALIFORNIA, BERKELEY
POSTDOCTORAL RESEARCH ASSOCIATE
The Department of Biochemistry is seeking candidates for a postdoctoral position to study the role of nuclear factor KB in protein metabolism. Applicants should have a Ph.D. in Biochemistry or related field and postdoctoral experience. Please send curriculum vitae and names of three references to: Dr. P. R. G behaviour, Department of Biochemistry, Michigan State University, East Lansing, MI 48824.

POSTDOCTORAL RESEARCH ASSOCIATE
The Cell Biology Laboratory, investigating cellular and molecular mechanisms of growth and differentiation of human epithelial cells, is seeking research associates to study molecular mechanisms of epithelial cell immortalization and transformation in vitro. Applicants are expected to have previous experience in epithelial cell culture, cell fractionation, transfection of cells with subgenomic DNA, and other molecular biology techniques. Please send curriculum vitae and names and addresses of three references to Dr. D. P. Cho, Department of Molecular Genetics and Cell Biology, the University of Chicago, 920 East 56th Street, Chicago, IL 60637.
AAAS/1991–92
Science & Engineering Fellowships

**CONGRESSIONAL**

AAAS Congressional Science & Engineering Fellows Program

Fellows spend one year on Capitol Hill working with Members of Congress or congressional committees as special assistants in legislative and policy areas requiring scientific and technical input. Two fellowships will be offered, with annual stipends of $38,000.

**EXECUTIVE BRANCH**

AAAS-Sloan Executive Branch Science & Engineering Fellows Program

Fellows work in the White House Office of Science and Technology Policy, for one or two years, providing expertise in industrial R&D, technology transfer, international competitiveness, and related issues. Two Fellows will be selected: one a scientist or engineer with at least 15 years experience, at a minimum annual stipend of $75,000; the other with about five years experience, at a minimum stipend of $40,000. Applicants must be U.S. citizens.

**DIPLOMACY**

AAAS Science, Engineering, & Diplomacy Fellows Program

Fellows work in international affairs on scientific and technical subjects for one year, either in foreign policy at the U.S. Department of State or in international development for the U.S. Agency for International Development. Approximately 12 Fellows will be selected. The annual stipend varies with experience, starting at approximately $36,000. Applicants must be U.S. citizens.

**ENVIRONMENTAL**

AAAS Environmental Science & Engineering Fellows Program

Fellows work as special research consultants with the Office of Research and Development of the U.S. Environmental Protection Agency for 10 weeks in the summer. The detailed, future-oriented research assists ORD in assessing the significance of long-range environmental problems. The stipend is $850 a week. Applicants must be permanent residents of the U.S. Ten Fellows will be selected.

Applicants should be postdoctoral to mid-career scientists and engineers, from any physical, biological, or social science or any field of engineering.

The programs are designed to provide each Fellow with a unique public policy learning experience; to make practical contributions to the more effective use of scientific and technical knowledge in the U.S. government; and to demonstrate the value of science and technology in solving important societal problems.

All Fellows participate in a rigorous orientation on the relevant congressional and executive branch operations and foreign affairs plus a year-long seminar series on issues involving science, technology, and public policy.

The application deadline is January 15, 1991, for the Congressional, Diplomacy, and Executive Branch programs and March 1 for the Environmental program. The three year-long programs begin in September 1991, and the 10-week Environmental program begins in June.

For additional program information and application instructions, write:
Directorate for Science and Policy Programs (FPO)
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005  ♦  202/326-6600
POSITIONS OPEN

INDOOR AIR EXPOSURE RISK ASSESSMENT RESEARCH

The Lawrence Berkeley Laboratory's Indoor Environment Program is seeking two highly qualified scientists for the following career openings:

- **STAFF SCIENTIST II.** 100% (C6164): Direct studies of human cell mutations resulting from environmental exposures. Must be able to set up and perform new human mutation assays, including HLA-A and glycoprotein-A assays, identify suitable cohorts for study, and organize exposure assessment protocols.

- **STAFF SCIENTIST II.** 75% (C6161): Conduct theoretical research in environmental management. Develop and implement mathematical models of deposition, metabolism, and toxicity for indoor organic air pollutants and environmental conditions. Ph.D. in biology and toxicology or equivalent required together with demonstrated expertise in computer modeling of pharmacokinetics/pharmacodynamics and risk assessment for organic pollutants. Experience with mainstream supercomputing environments and high level programing languages essential. Familiarity with indoor air pollution and exposure to toxic air pollutants desirable.

Both positions involve supervision of graduate students and postdoctoral fellows working on the project, preparation and publication of papers in refereed archival journals, and organizing departmental funding to establish new research projects. Ability to identify needed research, formulate research objectives, and compete and obtain funding for research projects. Strong research background, broad range of publications in the research areas described above.

Competitive salary commensurate with experience plus comprehensive benefits. Please send resume, including publication list, names of references (must indicate Job C6164 or C6161) to: Employment Office, Lawrence Berkeley Laboratory, 90-1042, #1 Cydron Road, Berkeley, CA 94720. M.A. Holman, telephone: 415-486-5394. An Equal Opportunity Employer. LAWRENCE BERKELEY LABORATORY

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