SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing. No advertising is accepted in advertisement positions if ad must be at least 2 weeks after date of issue in which ad appears. Also, personal ad heaping is accepted only with the understanding that the advertiser does not discriminate among applicants of race, sex, religion, age, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline or edit all advertisements submitted to it.

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Thursday, 10 a.m., 2 weeks prior to issue date (mailed on issue date). Advertisements for display advertising, please contact Scherago Associates.

POSITIONS WANTED


Microbiologist, Ph.D. (1989). Immunology specializa-
tion. Experienced with immunohemochemical and cellular immunological techniques. Seeks research position with industry/academia. Interested in autoimmunity and bacterial and parasitic infections. Box 231, SCIENCE.

Pharmacologist, Ph.D. Looking for finance-oriented (marketing/management) industry position while holding M.B.A. Box 235, SCIENCE.

Reproductive Physiologist/Endocrinologist, Ph.D. Seeks position in academia or industry. Research training in reproductive physiology and reproductive endocrinology. Postdoctoral training in reproductive physiology/animal science. Research interest in ovarian physiology. Laboratory experience in radioimmunoasays, receptor assays, tissue and embryo cultures, human in vitro fertilization. Excellent teacher and researcher. Box 218, SCIENCE.

Senior Cancer Researcher, M.D., Ph.D. Established investigator, experienced in vivo tumor models and interested in omega-6 and omega-3 fatty acids; tumor cell proliferation, growth, and metabolism; and liver regeneration. Generation of new projects, mentor/postdoc positions, long-term grant support, and equipment. Box 217, SCIENCE.

Solid Tumor Cytogeneticist, Ph.D., Board-certified, seeks position in Delaware/Philadelphia/Baltimore area, preferably analyzing abnormal samples. Wide cytogenet-

ic experience, 12 years tenure, 7 years tenure-track. Excellent teacher and researcher. Box 234, SCIENCE.

Cerebral Palsy Rehabilitation Center, Georgetown, D.C., is seeking an experienced research scientist in the area of neurophysiology. Responsibilities include coordination of adult and pediatric research involving functional neuroimaging, brain electrical activity, and behavioral studies. Applicants must have a strong background in neurophysiology and experience in research design and analysis. A Ph.D. or equivalent degree is required. The position is full-time and salary is commensurate with experience. Please send a cover letter and CV to: Dr. John Doe, Cerebral Palsy Rehabilitation Center, 123 Main Street, Washington, DC 20001. Deadline: January 31, 2023.

Univ. of Guelph, Ont., Canada. Position in Genetics. PhD in genetics required. Experience in molecular biology, genetics, and bioinformatics. Applicants must have strong research skills and experience in novel genetic approaches. Starting date: November 1, 2023. Submit application letter and CV to: Dr. Jane Smith, Dept. of Biology, Univ. of Guelph, Guelph, ON, Canada. Deadline: February 28, 2023.

University of Guelph, College of Biological Science. The Department of Nutritional Sciences is inviting applications for positions at the assistant professor level. Applicants must have a PhD in nutrition or a related field and a strong research record. Applications should be submitted by the end of March 2023. Full details are available at: https://www.guelph.ca/department-of-nutritional-sciences/positions-open.

Assistant Professor, tenure-track. Position begins 15 August 2019. PhD in ecosystems, evidence of effective teaching ability and scholarly accomplishment required. Duties will include teaching of general ecology and from genetics, botany, zoology, environmental science, and animal science. Send curriculum vitae, statements of teaching philosophy and research plans, and names of three referees by 12 January 1990 to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR. (TENURE TRACK). Position begins 15 August 1990. PhD in ecology. Experience in research and teaching in the area of community ecology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

UNIVERSITY OF GUELPH, COLLEGE OF BIOLOGICAL SCIENCE
The Department of Nutritional Sciences invites applications for a tenure-track position as an ASSISTANT PROFESSOR. The position involves teaching, research, and general duties related to the field of nutritional sciences. A PhD in nutritional sciences or related discipline is required. Preference will be given to applicants with experience in teaching and postdoctoral research. The Department of Nutritional Sciences encompasses a wide range of disciplines and is seeking candidates with a strong research record. The successful candidate will be expected to contribute to the ongoing research program of the department and be involved in teaching and mentoring students. Applications should be submitted by 1 March 2023. Full details are available at: https://www.guelph.ca/department-of-nutritional-sciences/positions-open.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in eukaryotic cell biology. Experience in research and teaching in the area of cell biology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in developmental biology. Experience in research and teaching in the area of developmental biology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in molecular biology. Experience in research and teaching in the area of molecular biology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in immunology. Experience in research and teaching in the area of immunology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in plant biology. Experience in research and teaching in the area of plant biology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in animal biology. Experience in research and teaching in the area of animal biology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in environmental biology. Experience in research and teaching in the area of environmental biology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in microbial biology. Experience in research and teaching in the area of microbial biology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in marine biology. Experience in research and teaching in the area of marine biology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in plant pathology. Experience in research and teaching in the area of plant pathology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in zoology. Experience in research and teaching in the area of zoology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in virology. Experience in research and teaching in the area of virology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in cell biology. Experience in research and teaching in the area of cell biology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in genetics. Experience in research and teaching in the area of genetics. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in physiology. Experience in research and teaching in the area of physiology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in ecology. Experience in research and teaching in the area of ecology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in botany. Experience in research and teaching in the area of botany. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in microbiology. Experience in research and teaching in the area of microbiology. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.

Assistant Professor, tenure-track. Position begins 15 August 1990. PhD in biochemistry. Experience in research and teaching in the area of biochemistry. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: Dr. Lockett V. Davis, Chair, Department of Biology, Winthrop College, Rock Hill, SC 29733.
ASSISTANT PROFESSOR—IMMUNOLOGY—Department of Microbiology and Immunology, School of Veterinary Medicine, University of California, is seeking a highly qualified applicant to fill a tenure-track position in immunology. Qualifications include the Ph.D. degree and advanced training in cellular and/or molecular biology with demonstrated research productivity and interest in immunology. The successful candidate will be expected to contribute to the department and the school's immunology teaching commitments and to establish independent and collaborative-type research programs. Appointments in immunology and virology are also available in the Department of Veterinary Medicine and the School of Veterinary Medicine.

Send to: Dr. Jeffrey L. Stott, Chairperson Search Committee, Department of Veterinary Microbiology and Immunology, University of California, Davis, CA 95616. Applications accepted through 15 January 1989 or until a suitable candidate is identified.

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

The Department of Microbiology, University of British Columbia, invites applications from molecular immunologists for an ASSISTANT PROFESSOR level, tenure-track position. The individual we seek will have a Ph.D. degree and postdoctoral experience, a strong research record, and show potential for developing an internationally recognized research program which will complement ongoing programs in immunology, virology, and bacteriology. The postdoctoral experience will be commensurate with qualifications and experience. The successful candidate will be expected to participate in the department's large and expanding program in molecular immunology. In accordance with Canadian immigration requirements priority will be given to Canadian citizens and permanent residents of Canada. Closing date for applications is 28 February 1990. Position will be available 1 July 1990. The position is subject to final budgetary approval. Please send curriculum vitae, a summary of research interests, and the names of three referees to: The Head, Department of Microbiology, University of British Columbia, #300 6174 University Boulevard, Vancouver, BC V6T 1W5, Canada. The University of British Columbia is an Equal Opportunity Employer.

ASSISTANT PROFESSOR MOLECULAR ENDOCRINOLOGY—UNIVERSITY OF VERMONT

Applications are invited for a tenure-track position in the Department of Zoology. Applicants are expected to (i) hold a Ph.D. degree, (ii) be engaged in research on growth factors and their receptors, hormone action, signal transduction, and related subject, and/or (iii) be engaged in research on the cellular and/or molecular basis of disease, to be appointed at the rank of Assistant Professor. Applicants should be able to pursue an independent research program, and have a record of productivity. Interested candidates are invited to send curriculum vitae, a statement of research interests, and the names of three references to: Dr. John R. Hunt, Department of Zoology, University of Vermont, Burlington, VT 05405—0086. Review of applications will begin on 15 January 1990.

We especially encourage women and minority candidates to apply. The University of Vermont is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, ORGANIC BIOL- OLOGY—The Department of Biology invites applications for an assistant professor position beginning in September 1990. Although the specific area of research and teaching is open, the ability to teach introductory (undergraduate) immunology is an asset, but not a requirement. Postdoctoral research and teaching experience are desirable. The successful candidate will be expected to establish a productive research program, pursue external funding, teach in major and nonmajor introductory sequences, supervise the training of M.S. and Ph.D. students, and serve on committees. To apply, send curriculum vitae, a list of publications and/or relevant presentations, and the names and addresses of three referees to: Dr. Elias K. Michaelis, Chairman, Department of Biology, Box 3004, State University College, 12200 Elmwood Avenue, Buffalo, NY 14222-3004. Applications are invited from individuals with a strong interest in any area of organic biology. Review of applications will begin 15 December 1988. The University of Buffalo is an Equal Opportunity/Affirmative Action Employer. Women and minority groups are encouraged to apply.
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Amgen is a recognized leader in the discovery and development of human pharmaceuticals through applied biotechnology. Our continued growth has created an immediate opportunity for a Research Associate in our core DNA Sequencing Group.

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Candidates for this position must have a BS or MS in an appropriate discipline and a minimum of two years' experience in DNA sequencing. Experience in basic cloning techniques, the dideoxy sequencing method, and computer analysis of DNA sequences is essential. Experience in gene mapping and screening of phage and cosmids libraries is highly desirable.

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ASSISTANT/ASSOCIATE PROFESSOR
DEPARTMENT OF ORTHOPAEDICS

A tenure-track position is available in the Department of Orthopaedics at the University of Louisville, Louisville, Kentucky. The applicant must have a Ph.D. in Engineering with research interest in biomechanics. It is expected that the applicant would establish an independent research program and be able to interact with the existing Spinal Cord Injury Research group. Considerable direct and indirect support will be provided to assist the applicant in the initiation of their research effort within the department.

Interested applicants should contact:

Dr. John R. Johnson
Chairman
Department of Orthopaedic Surgery
University of Louisville
Louisville, Kentucky 40292

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Discover a bright future at Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug Inc. As a subsidiary of Eastman Kodak, what makes Sterling outsourcing the rest is the unbeatable combination of a small, friendly company environment and the depth, resources, and growth potential of a large multinational corporation. So apply for the following openings and discover Sterling.

The Sterling Research Group announces three openings in the Department of Molecular Biology:

**Molecular Genetics**

Two research scientist positions are available in the field of molecular biology. Applicants should have BS/MS in Molecular Biology with at least 3 years of laboratory experience in DNA sequencing, expression and library generation. Candidates with strong background in yeast genetics or mammalian expression system are encouraged to apply. Please respond to position "CV-16/106".

**Protein Biochemist/Peptid Chemist:**

A research scientist position is available for an individual with a BS/MS in either Biochemistry or Chemistry. Applicants must have 3-5 years experience in purifying and characterizing recombinant molecules, including a strong background in HPLC and FPLC, and the ability to work both independently and as a member of an integrated scientific team. Experience in scale-up processes or peptide synthesis is highly desirable. Please respond to position "CV-106".

Sterling Drug Inc. offers competitive salaries and a comprehensive benefits program along with outstanding career opportunities for personal and professional growth. For confidential consideration, please forward resume with salary history/requirements and the names of three references to: Employer Relations, "Position number as referenced above," Sterling Research Group, 9 gradient Parkway, Malvern, PA 19355. An Equal Opportunity Employer M/F/H/V.

**POSITIONS OPEN**

### ASSISTANT PROFESSOR, MOLECULAR BIOLOGY

We invite applications for a tenure-track position in the Roseneit Center and Department of Biochemistry at Brandeis University. Preference will be given to those who investigate fundamental mechanisms, especially in the area of transcription. Applications for a more senior position will also be considered. Please send your curriculum vitae, three letters of recommendation, and a statement of research interests to: Dr. Peter Wensink, Search Committee, Roseneit Basic Medical Sciences Research Center, Brandeis University, 415 South Street, Waltham, MA 02254-9110. The deadline for application is 10 January 1990. Brandeis University is an Equal Opportunity/Affirmative Action Employer.

### TWO ASSISTANT PROFESSORS, VISUAL COGNITIVE NEUROSCIENCE

The Ohio State University is enhancing its diverse strengths in vision science, neuroscience, and cognitive science by offering two new positions in the College of Optometry and one in the Department of Psychology. Anticipated starting dates are July or October 1990. To apply, please send curriculum vitae, statement of research interests, selected reprints, and three letters of reference by 29 December 1989, to either: Dr. Edward King-Smith, Ph.D., 338 W 10 Avenue, Columbus, OH 43210 for the position offered in optometry, or Dr. Gary Bertson, Department of Psychology, 1800 Neil Avenue, Columbus, OH 43210 for the position offered in psychology. An Equal Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR, TENURE TRACK

The University of Illinois College of Medicine at Rockford seeks to add a tenure-track assistant professor to its diversified Department of Biomedical Sciences. The emphasis will be on excellence in research. The specific research area is open, although it is expected to involve studies at the molecular level. Contribution to a team-taught course in medical pharmacology and/or medical microbiology is expected. Submit curriculum vitae, a short statement of research interests, and the names and addresses of three references to: Dr. George Pack, Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford, 1601 Parkview Avenue, Rockford, IL 61107. Applications will be received starting 1 February 1990. The University of Illinois is an Affirmative Action/Equal Employment Opportunity Employer.

### ANATOMY ASSOCIATE/ASSISTANT PROFESSOR

Tenure path; Ph.D. and molecular biologists are especially encouraged. Candidates should be independent researchers, enjoy collaboration, and have teaching ability in anatomy. This position is supporting excellent salary and start-up funds. Send names of three to five references and curriculum vitae by 31 January 1990 to Dr. Richard Wigglesworth, Department of Anatomy, West Virginia University School of Medicine, 4052 HSIN, Morgantown, WV 26506. Affirmative Action/Equal Opportunity Employer.

### ASSISTANT OR ASSOCIATE PROFESSOR OF PHARMACEUTICAL SCIENCES

The Washington State University (WSU) College of Pharmacy invites applications for a tenure-track annual appointment in pharmaceutical sciences, effective 1 July 1990. A Ph.D. in one of the biomedical sciences (biochemistry, medicinal chemistry, pharmaceutical chemistry, or pharmacology) with emphasis on the study of drug metabolism and biochemical mechanisms of biotransformations is required. The candidate must have demonstrated potential for developing a creative, independent research program for appointment as an assistant professor, or an active extramurally funded research program for appointment as an associate professor. Teaching duties will include participation in team-taught courses for professional pharmacy students and students in the pharmacology/toxicology graduate program. Applications will be received until 1 January 1990 or until the position is filled. Applicants should provide curriculum vitae, the names and addresses of three references, and a statement of research interests and professional goals. Contact: Dr. Gary G. Meadows, Ph.D., College of Pharmacy, Washington State University, Pullman, WA 99164-6510. Telephone: 509-335-4750. WSU is an Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply.

### POSITIONS OPEN

**ASSISTANT OR ASSOCIATE PROFESSORS OF ANATOMY**

The Department of Anatomy at the University of Mississippi Medical Center invites applications for tenure-track, state-supported faculty positions. The department has excellent research facilities and active research programs in systems neuroscience, the biology of cell interactions, and stroke. Good research space and start-up money are available. The area of research is open, but preference will be given to applicants who are qualified to teach in gross anatomy or histology and who have significant potential for attracting extramural research support. Submit curriculum vitae, research plans, and the names and telephone numbers of three references to: Dr. Duane E. Haines, Professor and Chairman, Department of Anatomy, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216. The selection process will begin after 5 January 1990. Equal Opportunity Employer, M/F/H/V.

### ASSISTANT/ASSOCIATE PROFESSOR, BIOLOGY

Tenure-track position available fall 1990, primarily to teach introductory nonmajor biology course with audiovisual laboratory (approximately one semester, with 10 to 12 graduate assistants). Additional responsibilities would include a course in the individual's expertise that would enhance department programs; development of independent research projects and direction of master's level student research. Qualifications: Ph.D./D.Sc. in a biological science strongly preferred (A.B.D. or M.S. plus at least 1 year independent research considered as an exception). Excellence in undergraduate teaching expected. For consideration, send letter of interest, curriculum vitae, three letters of recommendation and transcripts (undergraduate and graduate) by 12 January 1990 to: Chair, Selection Committee, Position FAAA9060, Eastern Michigan University, 310 King Hall, Ypsilanti, MI 48197. Equal Opportunity/Affirmative Action Employer.

University of California, Irvine, Department of Medicine, is seeking a full-time appointment at the level of ASSISTANT OR ASSOCIATE ADJUNCT PROFESSOR in the nephrology division to supervise the renal physiology laboratory and coordinate bone and stone program. Duties include teaching and research. Please send curriculum vitae to: N. D. Vaziri, M.D., Chief, Renal Division, University of California Medical Center, Building 53, Route 81, 101 City Drive South, Orange, CA 92668. Affirmative Action/Equal Employment Opportunity.

The Department of Pathology, Medical College of Georgia, Augusta, Georgia, invites applications for a tenure-track faculty position at the rank of ASSISTANT OR ASSOCIATE PROFESSOR. The successful candidate should have a M.D. or Ph.D. degree with training and experience in molecular biology, molecular genetics, and/or immunopathology. In addition to participation in the graduate and undergraduate educational programs, the successful candidate will establish an independent or collaborative extramurally funded research program. Applicants should submit detailed curriculum vitae, names and telephone numbers of three references, and a statement of personal and professional goals to: R. N. Rao, M.D., Chief, Section of Anatomic Pathology, Medical College of Georgia, Augusta, GA 30912–3605. Equal Opportunity/Affirmative Action Employer.

### ASSISTANT OR ASSOCIATE PROFESSOR

Neurology with interest in multiple sclerosis. Board-eligible or certified in neurology. The applicant should be trained in cellular immunology or molecular immunology and prepared to do laboratory work in human systems. Interest in T cell receptor, MHC, or other aspects of human immunogenetics would be desirable. The candidate will join an existing research group with interests in molecular biology, virology, immunology, and neurobiology. Position open for 1 July 1990. Submit curriculum vitae, a statement of research interests, and the names of three references to: Dr. Leslie Vaziri, Department of Neurology, University of Southern California School of Medicine, Department of Neurology, Los Angeles, CA 90033.

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POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR
UNIVERSITY OF ROCHESTER
CANCER CENTER

Applications are invited for a tenure-track faculty appointment in the Experimental Therapeutics Division of the cancer center. The appointee is expected to develop a strong research program involving the application of cellular and molecular approaches to basic and therapeutic problems in cancer biology. Individuals with experience in DNA repair, oncogene regulation, cell cycle regulation, or molecular genetic approaches to diagnostics or therapeutics are particularly encouraged to apply. Extensive opportunities exist for interactions with other center investigators in areas such as immunology, pathology, and molecular biology. The cancer center is strongly committed to the support of promising new research programs. Applicants should submit curriculum vitae and a statement of research interests to: Dietmar W. Siemann, Ph.D., Chairman, Search Committee, University of Rochester Cancer Center, Box 704, 601 Elmwood Avenue, Rochester, NY 14642. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR
The Department of Sport, Leisure, and Exercise Sciences of the University of Connecticut is seeking an assistant professor for an anticipated full-time, tenure-track, 9-month appointment to begin September 1990. The chosen individual will have responsibility for teaching undergraduate and graduate courses in sport/exercise science concentrations, having direct involvement in the Sport Laboratory for People with Disabilities, pursuing scholarly research through publications and extramural funding, and coordinating the undergraduate sport medicine concentration. Earned Ph.D. in human physiology and/or sport/exercise science is required. Salary commensurate with rank. Applicants should submit curriculum vitae, transcripts of graduate work, three letters of recommendation, and related materials to: Carl M. Maresh, Ph.D., Chair, Sport/Exercise Science Search Committee, Department of Sport, Leisure, and Exercise Sciences, Box U-110, Room 223, 2095 Hillside Road, Storrs, CT 06269-1110. Screening will begin as soon as a sufficient pool of applicants is assembled and will continue until the position is filled. (Search # 0486.) Affirmative Action/Equal Opportunity Employer.

THE WELLESLEY HOSPITAL
RESEARCH INSTITUTE
AND DEPARTMENT OF IMMUNOLOGY
UNIVERSITY OF TORONTO

Applications are invited for the position of leader of a new basic research initiative to investigate cellular and molecular aspects of immunoregulation and immuno- 
ity. Funding is available for a leader and three additional positions at the ASSISTANT OR ASSOCIATE PROFESSOR (Ph.D. or M.D.) level. Applicants (Ph.D. or M.D.) for the program leader at the associate or full professor level are sought. The leader will be responsible for recruiting the additional three individuals. Salary commensurate with experience. The institute will provide ample space and generous start-up funds in addition to substantial ongoing administrative funding.

Enquiries and curriculum vitae should be directed to:
Dr. E. G. Keystone, c/o Research Office, The Wellesley Hospital, University of Toronto, 160 Wellesley Street East, Toronto, Canada M4Y 1P3. Application deadline is 1 January 1990. In accordance with the Canadian immigration requirements, consideration in the first instance will be given to Canadian citizens and permanent residents of Canada.

DICKINSON COLLEGE
Department of Chemistry
Dickinson College has a tenure-track position in BIOCHEMISTRY beginning in fall 1990. Candidates should have the Ph.D. in biochemistry, commitment to undergraduate chemical education, and desire to develop a research program with undergraduates. Dickinson is a liberal arts college with ACS accreditation, six chemistry faculty, excellent instrumentation, and significant undergraduate research. Send a résumé, undergraduate and graduate transcripts, research plans, statement of teaching philosophy, and three letters of recommendation to: Professor Robert Leyon, Dickinson College, Carlisle, PA 17013 by 1 January 1990. Minority and female applicants encouraged. Affirmative Action/Equal Opportunity Employer.

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Primary activities will be the design and execution of synthetic procedures and product analysis as a member of a multi-disciplinary team. The successful applicant will have at least a MS in organic chemistry, or equivalent, and experience in synthetic and analytical techniques. Experience with biological systems or chiral products, while not essential, would be an advantage.

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Candidates should possess either a BS (with experience) or MS in Microbiology, Biochemistry or related discipline. The individual will be responsible for supervising other associates, and for coordinating activities in the biodegradation laboratory. Experience with various assays and procedures common to biological research is required, and familiarity with more sophisticated analytical techniques and procedures is desired.

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17 NOVEMBER 1989
BIOTECHNOLOGY LABORATORY COORDINATOR/INSTRUCTOR PENNSYLVANIA STATE UNIVERSITY

The Biology Department at Pennsylvania State University is seeking a full-time position to manage our large introductory biology laboratories. Candidates should have an M.S. in the biological sciences, initiative to work independently, ability to skillfully manage teaching assistant laboratories procedures, exceptional organizational abilities, and knowledge of equipment and material needed to set up and manage numerous laboratory sections of introductory biology. Send resume, transcripts, and names and addresses of three references to: Dr. Linda Maxson, Head, Department of Biology, Box C, 208 Mueller Laboratory, University Park, PA 16802. Starting date will be spring 1990. Application deadline: 10 December 1989, or until suitable candidate is identified. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

BIOLGY ASSOCIATE PROFESSOR, University of Michigan. The University of Michigan Medical School, Ann Arbor, Michigan, is seeking a full-time faculty member with a strong background in cell and molecular biology. The University is committed to diversity in all areas of its mission and recognizes that a diverse community promotes excellence and innovation. The individual will carry out research in cell and molecular biology, and will be expected to build a strong research program that seeks to make important contributions to the field and to train the next generation of cell and molecular biologists. Applications are invited from individuals who have a Ph.D. or equivalent degree, and who can make a strong case for independence at the time of appointment. The initial appointment will be for a six-year term, with promotion to full appointment expected within five years. The position includes a competitive salary, university-paid health insurance, and funds for research start-up. Salary and benefits are competitive. Send a letter of application, a current curriculum vitae, and names and addresses of four references to: Dr. Susan L. Dutton, Chair, Search Committee, Department of Cell and Developmental Biology, University of Michigan, Ann Arbor, MI 48109. Review of applications will begin immediately and will continue until the position is filled. All applications and materials will be held in confidence. The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

DIRECTOR

Experienced Board-certified or -eligible cytopathologist to direct established laboratory with 750-specimen case load. Provides comprehensive cytopathologic services for a state hospital and a community teaching hospital. Duties include management and supervision of staff, training, and clinical consultation to physicians. Join us in the "Queen City of the Rockies" for an exceptional quality of life. Excellent benefits and salary negotiable. Submit resume and letter of application to: Dr. John A. Miller, University of Colorado School of Medicine, 1250 Elm Street, Denver, CO 80220.

An Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply.

ANALYTICAL CHEMOBIOLOGY, DEPARTMENT OF CHEMISTRY, UNIVERSITY OF GEORGIA. The University of Georgia, Athens, Georgia, USA, is seeking a tenure-track faculty member at the level of Assistant Professor. The position will begin August 1990. The successful applicant will be expected to establish an independent research program, to teach undergraduate and graduate courses, and to participate in universitywide curriculum development. Applicants must have a Ph.D. in Biochemistry or a related area by December 1989 and must have a strong research record.恶性 employs women and minorities and is an equal opportunity employer.

Assistant professor, department of physiology, University of Virginia, Charlottesville, VA. The University of Virginia is an affirmative action/equal opportunity employer. The University of Virginia does not discriminate on the basis of sex, race, color, national origin, religion, political affiliation, sexual orientation, marital status, or age in its educational programs and activities. The University of Virginia does not discriminate in admittance policies, scholarships, or loan programs. The University of Virginia does not discriminate against qualified individuals with disabilities. All applications must be received by 15 March 1990. All applications and materials will be held in confidence. The University of Virginia prohibits harassment of employees, students, or applicants based on race, color, religion, national origin, sex, age, sexual orientation, marital status, or disability.

The University of Virginia is committed to excellence in the educational and research programs of all citizens. The University of Virginia is an equal opportunity/affirmative action employer. Women and minority candidates are encouraged to apply.

BIOLGY PROFESSOR, University of Maryland School of Medicine. The University of Maryland School of Medicine is seeking a tenure-track faculty member at the level of Associate Professor. The successful applicant will be expected to establish an independent research program, to teach undergraduate and graduate courses, and to participate in universitywide curriculum development. Applicants must have a Ph.D. in Biochemistry or a related area by December 1989 and must have a strong research record.恶性 employs women and minorities and is an equal opportunity employer.

Assistant professor, department of physiology, University of Virginia, Charlottesville, VA. The University of Virginia is an affirmative action/equal opportunity employer. The University of Virginia does not discriminate on the basis of sex, race, color, national origin, religion, political affiliation, sexual orientation, marital status, or age in its educational programs and activities. The University of Virginia does not discriminate in admittance policies, scholarships, or loan programs. The University of Virginia does not discriminate against qualified individuals with disabilities. All applications must be received by 15 March 1990. All applications and materials will be held in confidence. The University of Virginia prohibits harassment of employees, students, or applicants based on race, color, religion, national origin, sex, age, sexual orientation, marital status, or disability.

The University of Virginia is committed to excellence in the educational and research programs of all citizens. The University of Virginia is an equal opportunity/affirmative action employer. Women and minority candidates are encouraged to apply.
Mervin Bovard Center in Molecular Biology and Biotechnology

MICROBIOLOGIST

MOLECULAR BIOLOGIST/VIROLOGIST

MOLECULAR IMMUNOLOGIST

TRANSGENIC MOUSE EXPERT

Due to major funding acquisitions through The Mervin Bovard Foundation and a cooperative Center of Excellence in Molecular Medicine, The University of Tulsa is expanding its tenure-track faculty.

Researchers will be provided renovated laboratory space, funded post-doctoral positions, and generous start-up monies. The transgenic mouse facility is guaranteed five years of substantial funding including technician in addition to start-up monies. Requirements: Ph.D., postdoctoral experience, publication record indicative of the potential to maintain an externally funded research program. Salary and rank commensurate with experience. Faculty are expected to teach undergraduate and graduate students, and to maintain a record of productivity in scholarly research.

The department has sixteen faculty and offers BS, MS, and Ph.D. degrees. Extramural funding in 1987-89 totaled more than $5 million. Facilities include state-of-the-art laboratories and equipment.

The university is a private, heavily endowed, comprehensive university of four thousand students with a strong commitment to teaching and research. Tulsa is an economic and cultural center of 750,000 surrounded by lakes. Applicants should submit curriculum vitae, statement of research, extramural funding plans, and three letters of reference to: Dr. Steffen Rogers, Director, The Mervin Bovard Center, The University of Tulsa 600 South College Avenue, Tulsa, Oklahoma 74104.

The University of Tulsa has an Equal Opportunity/Affirmative Action Program for students and employees.

FACULTY POSITIONS IN MOLECULAR BIOLOGY SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE

Applications are invited for tenure track openings at the Assistant Professor level in the area of Molecular Biology/Genetics. These new 12 month appointments are part of the University's commitment to strengthen and expand its program in molecular biology in the College of Agriculture, College of Science, and School of Medicine. The initial openings are in the departments listed below. In addition to establishing a strong research program, teaching at the undergraduate and graduate levels is expected. All candidates must have an earned doctorate and postdoctoral experience. Salary, research facilities and start-up funds are very competitive. Applications will be accepted by the Department as shown below until at least Jan. 15, 1990 or until the positions are filled. Separate applications should be forwarded if an applicant wishes to be considered by more than one unit.

Chemistry and Biochemistry. A position is available in the general area of eucaryotic molecular biology. All qualified candidates will be considered but preference will be given to persons working on problems associated with regulation of gene expression with at least three letters of reference sent to Dr. J. Tynrell, Chairman; Chemistry and Biochemistry; Southern Illinois University; Carbondale, IL 62901.

Microbiology. A position is available in the general area of molecular biology. All qualified applicants will be considered but preference will be given to those whose primary area of research interest is in some aspect of the molecular genetics of eucaryotic cells, the immune system, or host-parasite interactions. Interested applicants should send their curriculum vitae, a statement of research plans and have at least three letters of reference sent to Dr. J. Stucky, Chairman; Department of Microbiology; Southern Illinois University; Carbondale, IL 62901.

Plant and Soil Science. A position is available in the general area of molecular/cell agronomy. All qualified candidates will be considered but preference will be given to individuals whose primary interest is in genetic engineering of agronomic crops for increasing yield potential, e.g. to increase resistance to insects, diseases, or herbicides. Interested applicants should send letter of application, curriculum vitae, a statement of research plans, and have at least three letters of reference sent to Dr. D. Duvick, Chairman; Department of Plant and Soil Science; Southern Illinois University; Carbondale, IL 62901.

Southern Illinois University at Carbondale is an Equal Opportunity Affirmative Action Employer.

HEALTH SCIENTIST ADMINISTRATORS
NATIONAL INSTITUTES OF HEALTH

The National Institute of General Medical Sciences (NIGMS), one of the National Institutes of Health, is accepting applications from scientists interested in employment as Health Scientist Administrators, GS/GM - 601/602, grades 12 through 14. The salary ranges $34,580 - $70,420 per annum. In addition, medical officers may be eligible for a Physician's Comparability Allowance.

At a minimum, candidates must hold a Ph.D., M.D., or D.O. degree in one of the areas of basic biomedical science supported by NIGMS, which include cellular and molecular biology, genetics, biophysics, and biochemistry. Postdoctoral experience in biomedical research and research administration is highly desirable. Health Scientist Administrators are responsible either for the review of grant applications or for administration of grants within an area of scientific expertise. Inquiries regarding these positions, including curriculum vitae, may be directed to:

Elizabeth Ann Fitchjian, Personnel Officer National Institute of General Medical Sciences National Institutes of Health Public Health Service Westwood Building, Room 9A13 Bethesda, MD 20892 Telephone: (301) 496 - 7161

U.S. CITIZENSHIP IS REQUIRED

THE NIGMS IS AN EQUAL OPPORTUNITY EMPLOYER
ASSOCIATE DIRECTOR
Cellular and Molecular Biology

Merck Sharp & Dohme Research Laboratories' expanding long-term commitment to molecular and cellular biology has created an opportunity for a position of strong leadership. We seek a talented and experienced scientist to accept the responsibility for leading a group of 15 to 15 scientists within projects in both research as well as product development. This multi-disciplinary programs will be collaborative efforts which utilize techniques in molecular and cellular biology for the identification, isolation and analysis of proteins of therapeutic, pharmacologic, or process development interest as well as the control of viral proteins.

The successful candidate will possess broad experience in a range of areas which include: regulation of gene expression, DNA cloning and expression in recombinant microbial and eukaryotic hosts, mammalian virology, viral vectors and vaccines, studying xenogeneic proteins, in vitro studies of proteins, and protein analytical and purification techniques. Demonstrated research independence, extensive supervisory experience, solid interpersonal skills, and an excellent publication record in molecular biology are all required. Strong communication and leadership skills, a desire to work as part of a multidisciplinary team and the ability to develop the talents of other scientists are very important. Industrial experience is a plus.

This position will provide an outstanding opportunity to implement novel research projects with the potential for significant impact in several areas of human health. Collaborations with other research departments will offer the opportunity for high visibility and career advancement. In order to encourage broad and interactions with the scientific community at-large through collaborations, publications, and presentations at major scientific meetings. Applicants with an unusually successful background would be expected to be able to expand his/her future responsibilities in this dynamic position.

Excellent salary, benefits and generous relocation entitlements accompany this position at our modern and spacious laboratories in West Point, Pennsylvania. In addition, please send your resume, four professional references whom we may contact and a salary history and requirements to:

Mr. Jacques P. Kueny
Research Personnel

MERCK SHARP & DOHME RESEARCH LABORATORIES
West Point, PA 19486
EEO/AA/AVH/Employer

POSITIONS OPEN

CHEMISTRY/MATERIALS SCIENCE FACULTY

Organic chemistry/physical chemistry/materials science faculty positions: In the Chemistry of the University of Texas at El Paso (UTEP) seeks to add two tenure-track faculty members. Applicants should have Ph.D.'s in physical or organic chemistry, appropriate postdoctoral experience, and research orientation in materials chemistry. UTEP holds an NSF 5-year Minority Research Center of Excellence grant. In addition to B.A., B.S., and M.S. programs, the department anticipates the early establishment of an interdisciplinary materials science Ph.D. program. Applicants should submit curriculum vitae, publications, and the names of three references to: Professor William C. Herndon, Chairman, Department of Chemistry, The University of Texas at El Paso, P. O. Box 50088, El Paso, TX 79968 by 15 January 1990. The University of Texas at El Paso is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

The Centers for Disease Control (CDC), Division of Vector-Borne Viral Diseases (DVBVD), is now accepting applications for a CHIEF, Dengue Branch in San Juan, Puerto Rico. Applications are invited from persons with experience and expertise in epidemiology, microbiology, virology, or medical entomology. A medical, veterinary, or other doctoral degree level is preferred. The person selected for this position will be responsible for planning, developing, and directing a broad based program within the Division. The program includes research on arboviruses and other viral diseases of public health importance, community-based programs of prevention and control, and providing reference services and research capabilities to national and international agencies on arbovirus diseases. The position will provide supervision of a small staff and include technical and administrative support. The position is expected to be filled at the level of assistant professor at the University of Michigan, at a rank equivalent to the assistant professor level. Must have M.S. in environmental engineering, education to include 2 years of research in wastewater treatment and provide additional training, including experience with design of wastewater/wastewater treatment and public health, and industrial wastewaters. Interested persons should submit curriculum vitae, a statement of research interests, and a letter of application to: Dr. Richard B. Conkey, Assistant Director, Public Health, Atlanta, GA 30333. Qualified applicant must reside in the Atlanta area. Closing date is May 1, 1990. Women and minorities are encouraged to apply.

CLINICAL IMMUNOLOGIST/ANIMAL ViroLOGIST: Ph.D. or equivalent for Immunologist position. Postdoctoral training and experience in management and research critical. Please forward curriculum vitae, a current photograph, and three letters of recommendation to: Dr. Robert C. Howard, University of Minnesota Medical School, 420 Delaware St. S.E., St. Paul, MN 55105. Closing date is June 15, 1990. Women and minorities are encouraged to apply.

CTONGENETICIST: Ph.D. or master's degree for large private clinical laboratory. Board-certified or eligible preferred. Second Ph.D. position available for development of novel tests and therapeutics. Research interests in tissue culture, cytogenetics, or colorimetric techniques. Send resume to: Dr. Mark Geier, Molecular Medicine, Inc., 5606 Shields Drive, Bethesda, MD 20817.

EDITOR, LIFE SCIENCES. As a result of program expansions, a respected international publisher has available career opportunities for individuals with graduate degree(s) in the biological sciences. Responsibilities will include the evaluation and acquisition of new manuscripts for scientific journals, serving on editorial and journal boards, and serving as a resource for the sciences program. Must be New York City-based, travel approximately 50%. We offer a competitive salary and outstanding benefits package. Interested candidates should send resume, salary history, and three letters of reference to: Personnel Director, Springer-Verlag New York, Inc., 175 Fifth Avenue, New York, NY 10103. Equal Opportunity Employer. M/F/H.

ENVIRONMENTAL CHEMICAL ENGINEER for consulting firm in southeastern Ohio to perform environmental on-site tests of soil and groundwater, defining the extent of contamination including sampling, performing quality assurance, and determining remedial action necessary to assure client's compliance with state, federal, and local regulations regarding air, solid waste, hazardous waste, and wastewater environmental hazards. Will analyze unconsolidated geologic (chemical) sites as regards wastewater treatment practices and unit operations. Will analyze stream, wastewater, soil, and groundwater samples; perform unconsolidated storage tank analysis and coordinate laboratory analyses to recommend remedial and compliance procedures. Applicants must have a B.S. degree in chemical engineering. Interested persons must have M.S. in environmental engineering, education to include 2 years of research in wastewater treatment and provide additional training, including experience with design of wastewater/wastewater treatment and public health, and industrial wastewaters. Interested persons should submit curriculum vitae, a statement of research interests, and a letter of application to: Mr. W. C. Herndon, Department of Chemistry, University of Texas at El Paso, P. O. Box 50088, El Paso, TX 79968 by 15 January 1990. The University of Texas at El Paso is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ENVIRONMENTAL HORTICULTURIST NURSERY SPECIALIST Academic career-track, 11-month extension specialist and plant physiologist (75% Extension, 25% Agricultural Experiment Station research) at the assistant level, located in the Botany and Plant Sciences Department at the University of California, Riverside. Requires a Ph.D. degree in a plant science discipline with a specialization in horticulture, including demonstrated experience in field or greenhouse research and the ability to work independently in one or more of the following is desired: soil and water science, plant stress physiology, pest management, postharvest physiology of crops. Important responsibilities include providing strong leadership and participation in applied research and educational activities related to nursery and horticultural crops. Apply in Cali- California. Send letter of application, curriculum vitae, state- statement of research interest, transcripts, and at least three confidential letters of reference to: Dr. Robert T. Leonard, Chair, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521-0214. Telephone: 714-777-4437; FAX: 714-777-4437. The application deadline is 15 January 1990. Women and minorities are encouraged to apply.

ENVIRONMENTAL SCIENTIST

The Environmental Science Department seeks application from outstanding teachers to fill a full-time, tenure-eligible position at the ASSISTANT or ASsoCIA TE PROFESSOR level beginning September 1990. Prefer candidates who have a solid background in one or more of the natural sciences and whose interests/ experience are interdisciplinary. Ph.D. required. Examples of areas from which candidates are sought include environmental chemistry, restoration ecology, environmental geology, ecotonomy, land use planning, and atmospheric sciences.

Send resume, a statement of philosophy and goals of teaching and research, and three letters of reference to: Dr. Eric Pallant, Chair, Department of Environmental Science, Allegheny College, Mead-ville, PA 16243. Equal Opportunity Employer. Application review begins 5 January 1990.
ECKENKOPF, P.O. Box 32520, St. Petersburg, FL 33733. Equal Opportunity Employer.

ENDOCRINOLOGY/METABOLISM FACULTY POSITION. The Division of Endocrinology/Metabolism has an opening for a faculty member at the ASSOCIATE OR ASSOCIATE PROFESSOR level. Candidates should have strong research background in diabetes or lipid research and interest in clinical research in an eight-bed National Institutes of Health-funded General Clinical Research Center. Send curriculum vitae and two letters of recommendation by 1 February 1990 to: Dr. Sheila Hanes, Eckerd College, P.O. Box 12500, St. Petersburg, FL 33733. Equal Opportunity Employer.

EXPERIMENTAL BIOLoGIST. A tenure-track, teaching/research position is open at the ASSISTANT PROFESSOR level. The applicant must be an animal physiologist and have a research background in cellular biology or biochemistry. Ph.D. is required. Send resume, publications, and three references to: Dr. S. Hamada, Biology Search Committee, West Georgia College, Carrollton, GA 30118, by 7 January 1990. Inquiries: 706-367-4545.

FACULTY POSITION IN BIOPHYSICS AT HAVERFORD COLLEGE. The Department of Physics invites applications for a tenure-track ASSISTANT PROFESSOR in biophysics. Applicants must have a Ph.D. and be strongly motivated toward creative research and undergraduate teaching. The successful candidate will assist in developing a new interdisciplinary biophysics program. Substantial start-up funds for research are available. The position is part of a program funded by the Howard Hughes Medical Institute to enhance the biological sciences through interaction between the various science departments.

AECOTist. Assistant Professor, Ph.D., tenure track, September 1990. Research interest in marine fishes. Teach general ecology, marine topics in specialty, elective general biology; full periodic needs arising from environmental leaves, and contribute to the interdisciplinary, value-oriented general education core program. Send curriculum vitae, transcripts, three recommendations by 1 February 1990, to: Dr. Sheila Hanes, Eckerd College, P.O. Box 32520, St. Petersburg, FL 33733. Equal Opportunity Employer.

EXPERIMENTAL PATHOLOGIST, ASSISTANT OR ASSOCIATE PROFESSOR. Growing department needs experimentalists interested in either mechanisms of cell injury or molecular pathology. We can provide space, equipment, and competitive salaries for the right people. Send curriculum vitae to: Dr. S. Bloom, Department of Pathology, University of Mississippi Medical Center, Jackson, MS 39216. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN BIOPHYSICS AT HAVERFORD COLLEGE. The Department of Physics invites applications for a tenure-track ASSISTANT PROFESSOR in biophysics. Applicants must have a Ph.D. and be strongly motivated toward creative research and undergraduate teaching. The successful candidate will assist in developing a new interdisciplinary biophysics program. Substantial start-up funds for research are available. The position is part of a program funded by the Howard Hughes Medical Institute to enhance the biological sciences through interaction between the various science departments.

Haverford is a liberal arts college with an international reputation for strong research and instruction in the sciences. We have active collaborations with the University of Pennsylvania, Bryn Mawr College, and Swarthmore College, among others. Please send curriculum vitae, list of publications, a statement of research interest, and at least three letters of recommendation by 15 January 1990 to: Ms. E. Erell, Department of Physics, Haverford College, Haverford, PA 19041. An Equal Opportunity/Affirmative Action Employer. Qualified women and minorities are particularly encouraged to apply.

FACULTY POSITION IN EUKARYOTIC MOLECULAR GENETICS. The Department of Genetics, University of California, Davis, seeks to fill a tenure-track 11-month position in eukaryotic molecular genetics at the ASSOCIATE OR ASSOCIATE PROFESSOR level to begin on or after 1 July 1990. Candidates must have demonstrated excellence in research, be willing to teach in an advanced course in their specialty, and contribute to undergraduate instruction and advising. Interviews will be conducted after 1 January 1990 and continued until the position is filled. Apply to: James B. Boyd, Search Committee Chair, Agricultural Experiment Station, University of California, Davis, CA 95616.

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

TWO FACULTY POSITIONS IN GENETICS AT WISCONSIN
The Laboratory of Genetics, University of Wisconsin, is recruiting two new tenure-track faculty members. Position (i): ASSOCIATE OR ASSISTANT PROFESSOR in mammalian or human genetics. All areas of mammalian genetics will be considered, but applicants with research programs applicable to human disease are particularly welcome. Position (ii): ASSISTANT PROFESSOR in biochemistry, but will not exclude a higher rank if the right person is found. We seek applicants with training and current research interest in fundamental biochemistry and be able to teach biochemistry effectively. Research interest may include work on any biological process (in microorganisms, plants, or animals), but the approach should be biochemical. This individual should be able to interact productively with faculty and students having a wide range of research interests. In addition to biochemistry, the department includes molecular biology, cell biology, and genetics as well as organizational, morphological, and behavioral interests. The position will start 1 January 1990 and continue until the position is filled. Applicants should submit curriculum vitae, description of research interests, and three letters of recommendation. Candidates interested in this position should contact: Dr. Philip A. Sharp, Professor and Director Search Committee Chairperson Center for Cancer Research, Room E17–529 Massachusetts Institute of Technology Cambridge, MA 02139
MIT is an Equal Opportunity/Affirmative Action Employer. Qualified women and minorities of minority groups are encouraged to apply.

FACULTY POSITIONS IN EVOLUTIONARY BIOLOGY BROWN UNIVERSITY
The Graduate Program in Ecology and Evolutionary Biology is a group of strongly interacting faculty whose interests range from genetics to paleobiology with particular strengths in ecology, behavior, population genetics, and morphology. We announce two ASSOCIATE PROFESSORSHIPS for (i) an evolutionary ecologist and (ii) an evolutionary morphologist. We welcome applications from candidates with demonstrated excellence in experimental (field or laboratory) research for these integral positions in our ecology and evolutionary biology program. Candidates must have a doctorate and a potential for excellence in teaching, ability to develop an independently funded research program, and potential to interact productively with faculty in the program. Evolutionary ecologists should be addressing central issues in evolutionary biology, using modern molecular approaches. We encourage applicants working on plant, animal, or microbial systems. Responsibilities include a course in evolutionary mechanisms, a specialty course or contribution to the basic genetics course, and academic advising. Evolutionary morphologists should have a strong background in experimental and population research. Applicants should be addressing evolutionary issues in the biomechanics, eco-morphology, or developmental morphology of vertebrates. Responsibilities include teaching in the human morphology course for medical students, contribution to courses in evolutionary biology, and academic advising. Applicants should submit a resume including a current and teaching experience, future research plans, and a list of publications; enclose representative reprints; and have three letters of reference sent to: Dr. Richard J. Morse, Box G–W for the evolutionary genetics position or Dr. Markku Linnoila, Jr., Box B–B for the evolutionary morphology position. Applications are expected by 3 January 1990. Screening will begin on that date and continue until a successful candidate has been identified or the search is closed. An Equal Opportunity/Affirmative Action Employer.

CELL BIOLOGIST/ BIOCHEMIST
Research Opportunity
An industry-leading manufacturer currently has a research position available involving cell biology/biochemistry in its Southeast area location.

Experience in cell and tissue culture, molecular biology, plant transformation systems, microbiology, immunological techniques and/or radiolabeled methods is highly desirable. Strong oral and written communication skills are a plus, as is the ability to conduct computer manipulations of data. Requires a graduate degree; Ph.D. preferred.

An excellent salary and generous company benefits will compensate the special skills that you have to offer. Please send your resume, in confidence, to:

BOX 212, SCIENCE
M.I.T.

CLINICAL PHARMACOLOGIST - PHYSIOLOGICAL PHARMACOKINETICIST

The Laboratory of Clinical Studies, National Institute on Alcohol Abuse and Alcoholism, Public Health Service, invites applications for one Clinical Pharmacologist - Physiological Pharmacokineticist. This position is offered depending on the experience of the applicants at the level of a senior staff fellow (salary range, $28,000 - $45,234). The Laboratory is involved in exciting studies on brain imaging and drug metabolism. The individual appointed will have an important role in this multidisciplinary team effort. A research ward, excellent analytical chemistry, brain imaging and computer resources are available in the Laboratory on the NIH campus. Position information and qualification requirements may be obtained by contacting Dr. Markku Linnoila. Submit Curriculum Vitae and names of three references to:

Markku Linnoila, M.D., Ph.D.
Clinical Director
National Institutes of Health
Building 10, Room 3F19
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-9705

This position is now available.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
CHAIRMAN
Department of Biomedical Engineering

Boston University's College of Engineering invites applications and nominations for the position of Chairman, Department of Biomedical Engineering. The Department currently has 50 faculty with annual sponsored research expenditures exceeding $3 million dollars, 75 graduate students, and 130 upperclass undergraduates. We seek a distinguished engineer/scientist with a proven research record to lead the Department in its continuing growth.

The University has invested $110 million dollars in new facilities for engineering and science over the last five years and has recently made major commitments to the further growth of the College in conjunction with the appointment of a new Dean of Engineering. The Department maintains a central position within the College, in part, to the diverse backgrounds and research areas of its faculty. The Department expects to continue to develop graduate teaching and research and to strengthen its collaborations with the basic science departments, the Sargent College of Allied Health Professions, the Boston University Medical School and other area hospitals and companies.

A letter of interest or nomination, curriculum vitae, and the names of at least three references should be sent by February 1, 1990 to H. Steven Colburn, Chairman, Biomedical Engineering Search Committee, Boston University, 44 Cummington Street, Boston, MA 02215.

BOSTON UNIVERSITY
An equal opportunity, affirmative action employer.

NMR Spectroscopist

Miles Inc. has an outstanding opportunity in its new Research Center for Biotechnology headquartered in West Haven, CT.

This position will provide critical NMR support for our biotechnology and pharmaceutical research. NMR is part of a fully integrated Structural Chemistry group which currently includes X-ray crystallography and computational chemistry and participates in multidisciplinary research projects.

The successful candidate will have a PhD with 3-5 years' post-doctoral experience. A background in protein NMR research with a strong working knowledge in NMR theory and instrumentation is required. Familiarity with macromolecular structure elucidation and molecular modeling methodology is highly desirable.

Our NMR laboratory was started in April of this year with a research-grade GN-Omega-300 MHz NMR and approved 1990 funding for a fully-equipped 500 MHz NMR spectrometer. Continuous growth of Structural Chemistry and the NMR facility is projected over the next 10 years.

This position offers attractive compensation commensurate with qualifications, a benefits package including 401K and relocation assistance, and professional growth opportunities. For consideration, send resume including current salary in confidence to: Craig E. Cunningham.

Miles Research Center
400 Morgan Lane
West Haven, CT 06516
AN EQUAL OPPORTUNITY EMPLOYER M/F/H

Genzyme Corporation, a rapidly growing developer, manufacturer, and vendor of diversified healthcare products, recently merged with Integrated Genetics, a leader in the research and development of human biopharmaceuticals. The combined entity, which places the strengths of an innovative scientific effort within the framework of a results-driven products and manufacturing business, forms a significant force in the biotechnology industry with more than 450 employees worldwide.

Organic Chemists

We seek BS/MS chemists with research experience in carbohydrate chemistry, enzymatic synthesis, pharmaceutical synthesis, bioorganic chemistry, or enzymology. Candidates should also have excellent skills in data analysis, organization and communication.

Enzymologist

We have a position for a BS/MS chemist with 2 to 3 years' research experience in bioorganic chemistry and/or enzymology. Laboratory work will focus on using bioorganic chemistry and molecular biology to study enzyme mechanisms and to develop new enzymes for enzymatic synthesis.

Biopolymers

Our Biopolymers department requires a BS in Materials Science or Bioengineering, with at least 1 to 3 years' experience with biomedical devices to assist in the development and evaluation of hyaluronic acid-based products. Responsibilities include performing routine materials analyses, aseptic formulation of films and gels to meet product specifications, and assisting with animal studies.

Genzyme offers an excellent compensation and benefits package, including equity participation, a 401(k) plan with a matching company contribution, and extensive medical, dental, life and vision care insurance. For immediate consideration, please send your resume to: Human Resources, Genzyme Corporation, 75 Kneeland Street, Boston, MA 02111. An equal opportunity employer.
FACULTY POSITION: Applications are invited for a tenure-track, ASSISTANT PROFESSOR position in the Department of Chemistry at Whitman College, a private liberal arts college offering an ACS-certified B.A. degree. A Ph.D. in physical, inorganic, or analytical chemistry is required. Responsibilities include teaching the full-year physical chemistry course, a one-semester upper division course in his or her specialty, one semester of the general chemistry course, and associated laboratories. An active research program involving undergraduate and graduate students is expected. Applications must include a curriculum vitae, transcripts, three letters of recommen-
dation, a statement of teaching philosophy, and a research statement. Applications may be sent to: Dr. James Templeton, Department of Chemistry, Whitman College, Walla Walla, WA 99362 by 1 January 1990. Whitman College is an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF BIOCHEMISTRY UNIVERSITY OF VIRGINIA FACULTY OF SCIENCES

A full-time position has been opened for a scientist capable of directing a strong research program in biochemistry. All fields of research will be considered, but the individual must have demonstrated a potential to establish a self-sustaining, extramurally funded research program. The position will be available in the fall of 1990. Applications should include a statement of research interests, an autobiographical sketch, and three letters of recommendation. The University of Virginia is an affirmative action/equal opportunity employer.

FACULTY POSITION: The Department of Chemistry at Columbia University, College of Physicians and Surgeons, invites applications for a tenured-track assistant professor position. The position is available at the rank of full professor or possibly at a lower rank for promising candidates with less experience. The University is currently expanding its graduate program and continue its strong graduate and undergraduate programs in chemistry. Applications must include a curriculum vitae, reprints of selected publications, a statement of teaching and research interests, and three letters of recommendation. The University of Columbia is an Affirmative Action/Employer.

EMORY UNIVERSITY FACULTY POSITIONS IN DEVELOPMENTAL BIOLOGY

As part of major expansion, the Department of Biology intends to make several tenure-track appointments in developmental biology. Current areas of interest include cell biology, gene expression, and molecular mechanisms. Applicants should have a Ph.D. in cell biology, molecular biology, developmental biology, or a closely related field. The appointment is available at the Assistant Professor level. Applications should include a curriculum vitae, a detailed description of research plans, and the names of at least three references. Only complete applications received before February 15, 1990, will be considered. Emory University is an equal opportunity employer.

FACULTY POSITION IN NEUROANATOMY

A tenure-track position in neuroanatomy at the AS- SISTANT PROFESSOR level is available in the Department of Behavioral Neuroscience at the University of Pittsburgh, beginning July 1990. There currently are 16 tenure-track faculty and a vigorous departmental graduate training program. Research is highly collaborative and focuses on a variety of areas in neuroscience, including the neurobiology of catecholaminergic systems, bio-

physical membrane properties and neuroplasticity of hippocampal neurons, the neurobiological basis of be-
havior, molecular neurobiology of neurotransmitters and neurotransmitter receptors, synaptic plasticity and neural network development. Applicants should be trained in modern neu-
roanatomical methods, have at least 2 years of postdoc-
al research experience, and have published their independent research program. The University of Pittsburgh is an Affirmative Action Equal Opportunity Employer.

FACULTY POSITION IN ENVIRONMENTAL HEALTH

A tenure-track position is available for September 1990 in health science and human ecology at the ASSISTANT OR ASSOCIATE PROFESSOR level. The position is advertised in the Health Handbook, University of North Carolina, Chapel Hill, North Carolina, 27599.

FOREST PATHOLOGIST

The Department of Plant Pathology, University of Wisconsin—Madison, invites applications for a 12-
month, tenure-track ASSISTANT PROFESSOR posi-
tion: 80% research and 20% instruction. Candidates must have a Ph.D. and previous experience in forest pathol-
ogy is not a prerequisite. Applications must include a resume, two letters of recommendation, and a statement of research interests. Applications and three letters of recommen-
dation should be sent to: Dr. D. E. Sipet, Department of Forestry, University of Wisconsin, Madison, WI 53706, an equal opportunity employer.

FACULTY POSITIONS IN TOXICOLOGY. The Department of Pharmacology and Toxicology, Universi-
ty of Arizona College of Pharmacy, has two tenure-track openings: the ASSISTANT OR ASSOCIATE PROFES-
SOR level. The Department seeks individuals to complement the existing research activities within the department and related disciplines. The department has established a center for toxicology and the university has interdepartmental programs for cancer biology, neurobi-
ology, biotechnology, immunobiology, and insect sci-
ence. Applicants should have a Ph.D. degree in toxicology, pharmacology, or related disciplines; postdoctoral experience; demonstrated excellence in research; and an active interest in teaching at both the professional and graduate levels.

Application deadline: 31 December 1989. Send curricu-

FACULTY POSITIONS IN BIOLOGY. Massachusetts Insti-
tute of Technology candidates are sought for a tenure-track position at the level of ASSISTANT PROFESSOR in the field of biochemistry and molecular biology. Candidates should have significant research accomplishments in the area of contemporary cell biology. The department is currently expanding in this area and candidates should have strong research programs and should be interested in areas of developmental biology. Candidates will be expected to establish an active research program in the Center for Cancer Research and to participate in the teaching program of the department.

Applications should send curriculum vitae, a summary of their proposed research program, and the names of at least three scientists who can provide an evaluation of the candidate's past accomplishments and future potential. Applicants should have experience in high resolution NMR determination of structure of proteins or other biological macromolecules and have experience in graduate and postdoctoral training. Interested individu-
als should send curriculum vitae, outline of research interests, and the names of three references to: Barry P. Rosen, Professor and Chairmen, Department of Bio-
chemistry, Wayne State University, School of Medi-
cine, 540 East Canfield Avenue, Detroit, MI 48201. Wayne State University is an equal opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
ImmuLogic is a growing company dedicated to the creation of novel therapeutic and diagnostic products to modulate and monitor the human immune system. We employ state-of-the-art techniques and proprietary knowledge in immunology, biochemistry, and molecular biology to develop products in the vaccine, allergy and autoimmune disease areas. We collaborate with world leaders in the pharmaceutical industry and in academic institutions and are already recognized as a leading force among companies focusing in immunology. We are currently adding to the outstanding scientific team at our Cambridge, Massachusetts headquarters, and our new research facility in Palo Alto, California.

P A L O A L T O

IMMUNOLOGIST FOR AUTOIMMUNE DISEASES RESEARCH

Will investigate the interactions between HLA proteins, antigenic peptides and the T cell receptor; develop novel approaches to study and modulate these interactions and the resulting responses. Immunology background required (preferably including Molecular Immunology) as well as 2-6 years’ postdoctoral experience with strong record of achievement.

BIOCHEMIST FOR AUTOIMMUNE DISEASES RESEARCH

Will investigate the interaction between HLA proteins and antigenic peptides and develop assay systems to monitor this interaction and investigate the structural requirements for binding. Biochemistry/Chemistry background and research experience with cell surface receptors and/or ligand binding desired. Understanding of relationship between protein structure and function and 2-6 years’ postdoctoral experience with strong record of achievement required.

CHEMIST FOR AUTOIMMUNE DISEASES RESEARCH

Will investigate the structural requirements for HLA protein-antigenic peptide binding via the synthesis/design of peptides and peptidomimetic drugs which interact with HLA proteins. Involves both peptide and medicinal chemistry techniques. Requires experience with computer assisted drug design/molecular modelling technologies. Medicinal chemistry background, including experience with peptide synthesis/design, and 2-6 years’ postdoctoral experience with strong record of achievement also required.

For the above positions, please send curriculum vitae and list of publications to: ImmuLogic Pharmaceutical Corporation, One Kendall Square, Building 600, Cambridge, MA 02139, ATTN: Human Resources Department.

C A M B R I D G E

IMMUNOLOGIST FOR ALLERGIC AND INFECTIOUS DISEASES RESEARCH

Will investigate the immune responses to allergens and viral particles via characterization of antibody and T cell responses to protein and peptide immunogens. Requires a broad background in Immunology including appropriate experience with monoclonal and polyclonal antibodies and cellular immunology, as well as 2-6 years of postdoctoral experience with strong record of achievement.

For the above position, please send curriculum vitae and list of publications to: ImmuLogic Pharmaceutical Corporation, One Kendall Square, Building 600, Cambridge, MA 02139, ATTN: Human Resources Department.

ImmuLogic provides an outstanding working environment and state-of-the-art laboratory facilities. We have a first-rate support network of academic advisors and collaborators, an active postdoctoral program, and we support and encourage the publication of important research findings. ImmuLogic offers competitive salaries and benefits as well as equity participation through an incentive stock option program.

ImmuLogic
Pharmaceutical Corporation

Equal Opportunity Employer
HUMAN NEUROPHYSIOLOGIST to direct event-related potential studies in schizophrenia and normals at Dartmouth-Hitchcock Medical Center, beginning 1 July 1990. Will be section chief, Laboratory of Neuroscience (R. W. McCarley, Director). Harvard faculty appointment in Department of Psychiatry. Teaching responsibilities include salary. Interested candidates should have 3 years of research experience in neurophysiological methodology, the ability to design and carry out research projects, and publication record in peer-reviewed journals. Send a letter of interest, curriculum vitae, and three letters of recommendation to: R. W. McCarley, Chair, Search Committee, Psychiatry, Lahey Clinic Medical Center, Brockton, MA 02401. Affirmative Action/Equal Opportunity Employer.

NEW ZEALAND UNIVERSITY OF CANBERRA SENIOR LECTURER OR LECTURER IN MOLECULAR BIOLOGY (DEPARTMENT OF PLANT AND MICROBIAL SCIENCES) Applicants should have a Ph.D. degree in a relevant field and an interest in plant molecular biology and plant virology. The appointee will be expected to contribute to the teaching of courses in biochemistry, molecular biology, molecular genetics, and virology and to pursue an active research program including the supervision of M.S. and Ph.D. students. The salary for senior lecturers is on a scale from $NZ25,000 to $NZ32,000, and for lecturers on a scale from $NZ26,000 to $NZ45,000 (bar). Interviews may be conducted before the closing date; however, all applications received by 1 December 1988 will receive full consideration. The University of Canberra is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR GENETICIST Florida Atlantic University (FAU) invites applications for a tenure-track position at the ASSISTANT PROFESSOR level starting in August 1990. A molecular or cellular molecular geneticist is sought to establish a research program in his/her subject area. Ph.D. required. Responsibilities also include undergraduate teaching. Forward curriculum vitae, reprints, three letters of recommendation, and proof of good standing in Synthesis and course goals. The University of Oklahoma is an Affirmative Action/Equal Opportunity Institution. Applications received by 10 January 1990.

MOLGENICIST (PROKARYOTIC/EUKARYOTIC) A 9-month tenure-track position as the ASSISTANT PROFESSOR level in the Department of Botany and Microbiology in the area of microbial molecular genetics. Applicants are sought whose research would complement or extend any of the existing programs in DNA metabolism, the regulation of gene expression, and microbial development. Applicants who could interact with other established programs in physiology, pathogenesis, and microbial ecology will also be considered. The successful candidate will be expected to participate in graduate and undergraduate teaching. Primary criteria for appointment will be a Ph.D. degree, postdoctoral experience, expertise in molecular biology, and demonstrated research ability. For initial screening, candidates should submit curriculum vitae, a letter of application giving a brief description of their research interests, and three letters of recommendation to: Dr. David McCarthy, Search Committee Chair, Department of Botany and Microbiology, Chair University of Oklahoma, Norman, OK 73019-0245

MOLNEUROBIOLOGIST (MEDICAL MICROBIOLOGY) The Department of Biological Sciences, Universi- ty of Southern California, Los Angeles, CA 90009, is a tenure-track position at the ASSISTANT PROFES- SOR level. Applicants may have research interests in any of the many aspects of microbiology. The successful candidate will be expected to develop a vigorous, independent research program and to direct graduate students (M.S., Ph.D.). Teaching responsibilities will include undergraduate courses in microbiology and related areas. The University of Southern California is one of the leading comprehensive universities in the nation. The Department of Biological Sciences has ongoing funded research in molecular biology, virology, microbiology, environmental microbiology, immuno- biology, and organellar microbiology. Interested applicants should submit a statement of research and teaching interests, curriculum vitae, and names of at least three references. Applications must be postmarked by 15 January 1990 and should be sent to: Dr. Glen Shearer, University of Southern California, Department of Biological Sciences, Southern Station Box 5018, Hattiesburg, MS 39406. The University of Southern California is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR IMMU NOLOGIST. Two tenure-track faculty positions (ASSISTANT PROFESSOR) at the University of Miami School of Medicine are available in immunology through the Genetics and Immunology Core. Candidates with an M.D. or Ph.D. degree are expected to have a strong background in molecular approaches to immunology. The position will be filled under the leadership of Dr. Sterlelin, has a strong, research-oriented faculty in immunology and microbiology. For more information, send curriculum vitae, a synopsis of research interest, and the names of two references to the chairman of the search committee:

Attention: Dr. Eckhard R. Podack, University of Miami School of Medicine, Department of Microbiology, P.O. Box 0138, Miami, FL 33101. Telephone: 305-448-4680.

MOLECULAR NEUROBIOLOGIST. Applications are invited for a tenure-track position at the ASSISTANT/ASSOCIATE PROFESSOR level. We seek a candidate with an interest in developing a strong, independent research program. The successful applicant should have a Ph.D. or M.D. degree with substantial postdoctoral experience using contemporary molecular techniques. Research interests might include the regulation of gene expression, cell surface recognition, signal transduction, or protein regulation in cell motility. The department faculty comprise a highly mul ti disciplinary group of active researchers interested in nervous system development and function, neurochemical pathways, and the molecular and structural basis of contraction and secretion. The candidate should submit curriculum vitae and summary of research interests and plans for research. Three letters of recommendation to be sent to: Dr. Pat Levitt, Faculty Search Committee, Department of Anatomy, Medical College of Pennsylvania, 3200 Henry Avenue, Philadelphia, PA 19129. Application deadline is 15 March 1990. MCP is an Equal Opportunity/Affirmative Action Employer.
Research Scientist

At Edison, we’re working hard to serve our customers and help create energy independence.

Southern California Edison, an investor-owned utility serving approximately 10 million people in a 50,000 square mile area of Southern and Central California has an exciting opportunity for a Research Scientist.

A graduate degree in a physical or environmental science (Ph.D. preferred) and a minimum of 7 years of research and project management experience at a doctorate level is required.

A multidisciplinary approach will be utilized to manage environmental problems with applications to industrial effluents. Mathematical models will be used to describe and interpret interactions and transformations in atmospheric, ecological, and biological systems. In addition, research programs will be developed and implemented with universities, research institutes and government agencies.

Southern California Edison offers an excellent salary and benefits package, plus superior working conditions. To apply, please send your resume to: Southern California Edison, Dept. SYSP-078, 8631 Rush Street, Rosemead, CA 91770.

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We aggressively support Equal Opportunity and Affirmative Action. Women and minorities strongly encouraged to apply.

RNA Structure And Processing

ISIS Pharmaceuticals, located in Carlsbad, CA (San Diego County), is a new pharmaceutical and technology company focused on antisense oligonucleotide therapeutics. ISIS has exciting and innovative research programs, strong and secure funding, a world class scientific advisory board, excellent facilities, and strong academic ties which make a career at ISIS an exciting opportunity for outstanding individuals. Present openings include:

Biophysical Chemist Ph.D.
ISIS is seeking an innovative Ph.D. level scientist to lead a research effort focused on the thermodynamics and kinetics of nucleic acid hybridization reactions. Candidates should have a strong background in nucleic acid structure, and experience in biophysical techniques applied to nucleic acids. This research program will be linked with a strong synthetic chemical effort providing novel oligonucleotide analogs designed to specifically regulate gene expression.

RNA Processing Biochemist Ph.D.
ISIS is seeking a Ph.D. level scientist to develop and implement research programs in RNA structure, processing, translation, and the identification of novel therapeutic targets for antisense oligonucleotides within these processes. We provide a unique opportunity to study RNA processing with strong chemical support providing novel oligonucleotide analogs designed to target specific gene expression.

Biochemists/Molecular Biologists B.S./M.S.
ISIS has several positions for B.S./M.S. scientists with experience in biochemical and molecular biology techniques such as protein purification, DNA and RNA sequencing, cloning and cell culture.

ISIS Pharmaceuticals offers a competitive salary, benefits, and substantial equity participation. Our new facility is located in beautiful San Diego County near the Universities of California, San Diego and other major scientific centers. Please submit a cover letter, c.v., reprints of relevant publications, and names and telephone numbers of references to: Dr. David J. Ecker, Director of Molecular and Cellular Biology, ISIS Pharmaceuticals, 2280 Faraday Avenue, Carlsbad, CA 92008. An Equal Opportunity Employer.

ISIS PHARMACEUTICALS

Discover a bright future at Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug Inc. As a subsidiary of Eastman Kodak, what makes Sterling oustshine the rest is the unbeatable combination of a small, friendly company environment and the depth, resources, and growth potential of a large multinational corporation. Discover Sterling by applying for the following position in our Enzymology and Receptor Biochemistry Department.

Research Scientist Enzymology

The successful candidate will isolate and characterize enzymes of potential therapeutic importance and develop specific enzyme assays. Responsibilities will also include analysis of the interaction of substrates and inhibitors with enzymes of interest.

BS/BA in Biochemistry or related discipline (Biology/Chemistry) with 1-3 years' applicable experience (or Master's) required. Experience in enzymology, protein purification, or protein chemistry necessary. Please respond to position GV-126.

Sterling Drug Inc. offers competitive salaries and a comprehensive benefits program along with outstanding career opportunities for personal and professional growth. For confidential consideration, please forward resume with salary history/requirements and the names of three references to: Employee Relations, "Position GV-126," Sterling Research Group, 9 Great Valley Parkway, Malvern, PA 19355. An Equal Opportunity Employer M/F/H/V.

STERLING RESEARCH GROUP
A Subsidiary of Eastman Kodak Company
Build A Future With Sterling.
NEUROSCIENCE FACULTY POSITION

The Department of Zoology at Iowa State University invites applications for a tenure-track position in neuroscience. Opportunities exist for involvement in a developing campus-wide neuroscience program and support from a multimillion-dollar university-wide life sciences program with emphasis on basic research. Applicants should have a Ph.D., M.D., or equivalent degree and postdoctoral experience. The successful candidate is expected to develop a vigorous, independent research program and participate in undergraduate and graduate teaching. Applications, including curriculum vitae, description of research interests and future plans, selected reprints, and three letters of references, should be sent to:

Dr. S. S. Shen, Neuroscience Search Committee, Department of Zoology, Iowa State University, Ames, IA 50011, by 15 January 1990.

Women, minorities, and members of other protected groups are strongly encouraged to apply. Iowa State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITION

Position available for an individual to participate in ongoing research into the role of members of the Jun family of protooncogenes in controlling cellular proliferation (PNAS, 85, 1487; PNAS, 85, 8464; Cell, 85, 907; PNAS, 86, 1500). Studies include a comparative analysis of transcriptional regulatory properties of Jun-encoded proteins and the identification of Jun-regulated genes important in cell cycle progression. Highly motivated individuals with training in molecular biology or biochemistry are invited to apply. Send curriculum vitae, a short summary of research interests, and names of three references to: DKR, c/o Personnel Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

Molecular Immunologist
BRANDEIS UNIVERSITY

The Rosenstiel Research Center and the Department of Biology seek a tenure-track ASSISTANT PROFESSOR in the area of the molecular biology of the immune system. Candidates should have a strong record of research accomplishments in this area. Please submit curriculum vitae, including a description of research goals, and three letters of recommendation to: Dr. Ranjan Sen, Search Committee, Rosenstiel Center, Brandeis University, P.O. Box 9110, Waltham, MA 02254-9110 by 30 January 1990. Brandeis University is an Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGIST

The Biology Department of George Mason University (GMU) seeks applicants for a tenure-track ASSISTANT PROFESSORSHIP. The successful candidate will be expected to establish a funded research program and participate in graduate and undergraduate teaching, including an annual animal biology course. Applications, including curriculum vitae, statement of research and teaching interests, selected reprints, and names of three references, should be submitted to: Chair, Neurobiologist Search, Biology Department, George Mason University, Fairfax, VA 22030. GMU is rapidly developing a state university in northern Virginia, 15 miles from Washington, D.C. Apply by 15 January 1990 for full consideration.

George Mason is an Affirmative Action/Equal Opportunity Employer.

OCEANOGRAPHER

The Southeastern Forest Experiment Station is recruiting for a PROGRAM MANAGER who is an interdisciplinary position between the GS-401, General Biological Science Series, and the GS-1301, General Physical Sciences Series.

Requires graduate university course work in forest ecology, forest biology, or related disciplines. Position will coordinate multidisciplinary research and monitor the interactive responses among forest ecosystems, atmospheric pollution, and climate changes to determine the effects of atmospheric change on forest environments. The successful candidate will be expected to administer a comprehensive program and provide input to station management in review and response to legislative and regulatory proposals.

Salary range is $41,121 to $48,592 per year. This position is located in Raleigh, North Carolina. Qualified individuals should send a one-page résumé to:

Donald Downs, Personnel
Attention: Early Alert (89-569)
Southeastern Forest Experiment Station
P.O. Box 2680
Asheville, NC 28802

GEO-CENTERS, INC., a rapidly growing professional services R&D firm, specializing in chemical, materials, biological, and optical sciences, has immediate openings for Senior Technical Staff Members.

Applicants for the following Senior Scientist positions must possess a Ph.D. in Microbiology, Biochemistry, Virology, or a related field. Applicants will be judged on educational background and practical experience, as demonstrated by a solid publication record in the appropriate field.

MICROBIOLOGIST-VIROLOGIST – Code 2149

This position will involve the characterization of unknown virus isolates, and the development of rapid diagnostic tests. Candidate will have experience in virus propagation and purification: protein gel electrophoresis, column chromatography, western blotting, ELISA, and dot-blot immunoassays; possess an in-depth knowledge of immunology and immunodiagnostics as they relate to infectious diseases and knowledge of Arthropod-borne viruses; an interest in tropical medicine is a definite plus.

MOLECULAR BIOLOGIST – Code 2150

This position will focus primarily upon the development of vaccines and diagnostic reagents, and the study of the basic immunology and pathogenicity of recombinant antigens. Candidate must possess an in-depth knowledge of molecular biology as it pertains to cloning, sequencing, and overexpression of protein antigen genes of pathogenic bacteria in E. Coli.

MOLECULAR BIOLOGIST – Code 2151

This position requires expertise in the field of genetic engineering and bacterial genetics. The primary responsibilities will include the cloning and sequencing of selected genes, site-specific mutagenesis, and DNA-ligand interactions.

TECHNICAL SUPPORT VACANCIES – Code 2152

GEO-CENTERS, INC. is also encouraging B.S. and M.S. candidates to submit applications for consideration as members of the technical support staff in these areas.

U.S. Citizenship or Permanent Resident Status required for all positions. We offer competitive salaries, attractive benefits and relocation assistance. Qualified applicants should send their resumes, salary history, and references in confidence to: GEO-CENTERS, INC., 10903 Indian Head Highway, Fort Washington, MD 20744, Attn: Deborah Hall-Greene. Please indicate the appropriate code.

An Equal Opportunity/Affirmative Action Employer.
ASSOCIATE
SCIENTIST

The Roche Institute of Molecular Biology, one of the world’s leaders in medical research, is seeking an Associate Scientist experienced in protein/nucleic acid purification and characterization. Qualifications include a BS/MS in Biology, Chemistry or Biochemistry, along with a minimum of 2-3 years of experience in biochemistry or molecular biology; experience working with mice and animal cell cultures preferred.

We offer a competitive salary, a generous benefits package and a state-of-the-art environment that encourages professional growth. For confidential consideration, please send your resume to: Frances Newman, Staffing and Employee Services, Dept FW, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

Roche Institute of Molecular Biology

Hoffmann-La Roche Inc

TENURE-TRACK ASSISTANT PROFESSORSHIPS
DEPARTMENT OF BIOLOGY

The Department of Biology at Tufts University invites applications for three new tenure track positions at the assistant professor level, to start Sept., 1990. This is an expansion made possible in part by a grant under the Howard Hughes Medical Institute Undergraduate Initiative; two additional faculty positions will be opened to start Sept., 1991.

The Department presently has 17 full-time faculty members committed to offering a broadly-based biology curriculum. We seek candidates with training in specialties that will complement our existing research and teaching programs at the undergraduate and graduate levels. Successful applicants will be expected to pursue independent extramurally-funded research programs, and to sponsor doctoral-level graduate research. PhD required; postdoctoral experience preferred. In addition to the specialized teaching listed for each position, duties will include participation on a rotating basis in team-taught introductory and intermediate level biology courses. Applicants will be sought for the following specific positions; although research specialties are suggested, we will consider any outstanding candidate in each area.

Molecular Biologist, preferably with research interests in the molecular biology of higher or lower eukaryotes, including plants. Instructional duties will include an intermediate level course in molecular biology and an advanced seminar course.

Neurobiologist, preferably with research interests in developmental neurobiology, receptors or channels, integrative neuroscience, or neuroethology. Instructional duties will include a course in neurobiology and a specialty course.

Population Biologist, preferably with research interests in population dynamics, population genetics, or evolutionary mechanisms. Instructional duties will include an introductory course in biostatistics and a course in an area of population biology.

Women and minorities are encouraged to apply. Applications will consist of a curriculum vitae, a concise statement of research interests and goals, and letters sent from three references who can comment on teaching ability and research potential.

Address to: Chair, Search Committee for (state position desired), Department of Biology, Tufts University, Medford, MA 02155.

Deadline for completed applications, including letters of reference, is Jan. 9, 1990. Tufts University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST

Amgen is a recognized leader in the discovery and development of human therapeutic products through applied biotechnology. Our Recovery Process Development Group has positions for Ph.D. Scientists skilled in the recovery of recombinant proteins.

Qualified candidates should have experience in protein folding, chromatography and standard analytical techniques.

Amgen offers an excellent compensation and benefits package as well as the unique opportunity to contribute to significant research programs on the leading edge of biotechnology. If you have the necessary qualifications and would like to be a part of a company that places a high priority on its human resources, please send a complete C.V., in confidence, to:

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Thousand Oaks
CA 91320-1789

ADVANCED TRAINING IN
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THE OHIO STATE UNIVERSITY

The Neuroscience Program and Faculty of The Ohio State University invite applications for advanced study supported by three new programs which add to and complement existing neuroscience efforts.

Graduate Program in Neuroscience:
The Neuroscience Graduate Studies Program offers the Ph.D. in Neuroscience with individualized programs in behavioral, systems, cellular, and molecular neuroscience. A faculty of over 70 members from 21 departments and academic units participate in this campus-wide interdisciplinary program. Graduate students are supported by Neuroscience Program Fellowships, training grants, University fellowships, and individual research programs. Approximately five students per year are admitted. For further information, faculty listings, and application materials contact:

Dr. James S. King, Ph.D. Chairman
Neuroscience Graduate Studies Program
The Ohio State University
University Hall
College of Medicine
1072 Graves Hall
333 West Tenth Avenue
Columbus, Ohio 43210
P: 614/292-2379

Neural Development, Plasticity, and Regeneration:
An N.I.H. NINDS training grant and individual program sources support pre- and postdoctoral research in a variety of approaches to understanding neural development, plasticity and regeneration and their interrelated mechanisms. Applications (CV, statement of research interests, 3 references) or requests for information should be addressed to:

G. F. Martin, Ph.D. and M.S. Beattie, Ph.D.
Department of Anatomy
The Ohio State University
4072 Graves Hall
333 West Tenth Avenue
Columbus, Ohio 43210
P: 614/292-1667 (Dr. Martin) or 614/292-1781 (Dr. Beattie)

Neuroimmunoendocrine Modulation:
An N.I.H. NIMH supported multidisciplinary postdoctoral training program to include research programs in behavioral influences on the immune system and disease, studies on the mechanism of interaction between the central nervous system, the endocrine system and the immune system, and human and animal studies, basic and clinical. For further information and application materials contact:

Ronald Glazer, Ph.D. Chairman
Department of Medical Microbiology and Immunology
5072 Graves Hall, 333 West Tenth Avenue
Columbus, Ohio 43210
P: 614/292-5526

TENURE-TRACK ASSISTANT PROFESSORSHIPS
DEPARTMENT OF BIOLOGY

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Molecular Biologist, preferably with research interests in the molecular biology of higher or lower eukaryotes, including plants. Instructional duties will include an intermediate level course in molecular biology and an advanced seminar course.

Neurobiologist, preferably with research interests in developmental neurobiology, receptors or channels, integrative neuroscience, or neuroethology. Instructional duties will include a course in neurobiology and a specialty course.

Population Biologist, preferably with research interests in population dynamics, population genetics, or evolutionary mechanisms. Instructional duties will include an introductory course in biostatistics and a course in an area of population biology.

Women and minorities are encouraged to apply. Applications will consist of a curriculum vitae, a concise statement of research interests and goals, and letters sent from three references who can comment on teaching ability and research potential.

Address to: Chair, Search Committee for (state position desired), Department of Biology, Tufts University, Medford, MA 02155.

Deadline for completed applications, including letters of reference, is Jan. 9, 1990. Tufts University is an Equal Opportunity/Affirmative Action Employer.
PHYSIOLOGIST: Anticipated tenure-track ASST-ASSISTANT PROFESSOR position in vertebrate physiology. Preference will be given to non-mammalian model systems. The successful candidate will be expected to establish an independent research program and teach vertebrate physiology. Candidates must have the Ph.D. degree and postdoctoral experience is preferred. Send curriculum vitae, statement of research interests, and the names of three references to: Dr. Henry F. Frey, telephone: 301-443-8510.

PLANT MICROPROPAGATION RESEARCH
Twyford International, Inc., world leader in development of micropropagation systems, announces two immediately available positions in its expanding Contract Research Division. Those with industry or government research proposals, excellent organizational and communication skills required.

RESEARCH SCIENTIST: Ph.D. in plant sciences and demonstrated experience in development of new micropropagation systems for selected crops, including inorganic and organic nutrition, growth regulators, gaseous phase, and overall cost reduction. Successful applicant to assist in preparation of research proposals. Experience or training in agricultural engineering a plus.

RESEARCH ASSOCIATE: B.S. with experience, or M.S. in plant sciences. Experience with micropropagation system development and greenhouse production required. Applicants should send curriculum vitae and names of three references to: Dr. Sharon L. Kurtz, Director, Contract Research and New Business Development, Twyford International, Inc., 15245 Telegraph Road, Santa Paula, CA 93060.

PLANT SYSTEMATIST
The Department of Botany and Plant Sciences, University of California, Riverside, announces a position in plant systematics available 1 July 1990. The position is a tenure-track, 11-month appointment at the ASSISTANT PROFESSOR level in the College of Natural and Agricultural Sciences and in the Agricultural Experiment Station. A Ph.D. is required, and postdoctoral experience is preferred. The appointee will be expected to develop a vigorous, innovative, independent research program in plant systematics and taxonomy relative to native plant species and their relatives important to California agriculture. One goal, but by no means the only one, might be the application of molecular or other experimental techniques to problems in systematics. The successful candidate must be willing to teach courses in field botany, taxonomic theory, and spring wildflowers, as well as to serve as a major professor to graduate students. Also, a knowledge of, or a willingness to learn about, the California flora is essential. Send curriculum vitae, including publication list, and arrange to have at least three confidential letters of recommendation sent to: Dr. W. W. Thompson, Chairman, Search Committee, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521–0124. Application deadline is 15 January 1990. Telephone: 714-774-4619. Fax: 714-774-4637. The University of California, Riverside, is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

POPULATION BIOLOGIST FACULTY POSITION
The University of California, Santa Cruz, is interested in filling a position for an open-rank position in population biology. Individuals committed to any area of ecology, evolutionary biology, or related fields are invited to apply. Responsibilities include teaching undergraduate and graduate students, conducting independent research, and a strong, independent research program. To ensure consideration, applications and nominations should be submitted by 15 January 1990. Application includes a curriculum vitae, a description of research interests, and a list of potential references should be sent to: Population Biology, Developmental Biology Department, Santa Cruz, CA 95064. Affirmative Action/Equal Opportunity Employer. Females and minority group members are encouraged to apply.

POSTDOCTORAL POSITIONS

POSTDOCTORAL ASSOCIATE
A postdoctoral position is available to study the mechanism of electron transport reactions of the membrane protein cytochrome P-450. Experience with enzyme kinetics and/or stopped-flow spectrometry helpful. Salary negotiable. Send curriculum vitae and three references to: Dr. L. W. Asbell, M.D., Ph.D., VA Medical Center, University of California, San Diego, 4150 Clement Street, San Diego, CA 92103. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS available immediately for a Ph.D. in physical chemistry/biochemistry to study the mechanism of electron transport reactions of the membrane protein cytochrome P-450. Experience with enzyme kinetics and/or stopped-flow spectrometry helpful. Salary negotiable. Send curriculum vitae and three references to: Dr. L. W. Asbell, M.D., Ph.D., VA Medical Center, University of California, San Diego, 4150 Clement Street, San Diego, CA 92103. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available to study gene-specific repair of oxidative damage to DNA of mammalian cells and purification and cloning of DNA glycosylase enzymes. Recent experience with DNA repair mechanisms, Ph.D. with experience in protein chemistry, molecular biology, or DNA chemistry is preferred. Salary and benefits are competitive. Please send curriculum vitae and names of references to: G. W. Teboor, M.D., Department of Pathology, New York University School of Medicine, MSB 605, 550 First Avenue, New York, NY 10016.

POSTDOCTORAL POSITION IN MOLECULAR VIOLOGY
We are seeking a recent Ph.D. with strong background in molecular biology to join six investigators studying the molecular basis of herpes simplex and varicella zoster virus pathogenesis. Current efforts include the study of viral transcription during latency, use of intertypic mutants to identify viral genes involved in latency, anoxal transport of virus in vivo and in vitro, and the role of host immunity in viral pathogenesis. Involvement with viral replication, including virus-plant interactions, is essential. Send curriculum vitae, and research interests and activities to: Dr. W. W. Thompson, Chairman, Search Committee, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521–0124. Application deadline is 15 January 1990. Telephone: 714-774-4619. Fax: 714-774-4637. The University of California, Riverside, is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL POSITION in neurobiology is available immediately to work with antisense RNA in maize. A Ph.D. and at least 3 years of experience in molecular biology, genetics, or biochemistry are essential. Familiarity with cDNA cloning, use of transforming vectors by particle gun/electroporation, synthetic oligonucleotide chemistry, or techniques for analyzing DNA, RNA, and protein interactions is desirable. Send resume with at least three references to: Dr. Ben Bowen, Department of Biotechnology Research, Pioneer Hi-Bred International, Inc., 1 Washington Street, Johnston, IA 50131. Pioneer is an Equal Opportunity/Affirmative Action Employer.
LEADERSHIP AND INNOVATION IN AGRICULTURE & VETERINARY MEDICINE

The Texas A&M University System

College of Agriculture and Life Sciences
Institute of Biosciences and Technology
College of Veterinary Medicine
Texas Agricultural Experiment Station (TAES)
Invites applications for leadership positions

ASSOCIATE DEAN
FOR INTERDISCIPLINARY PROGRAMS
(Associate Director of Research–TAES)
College of Agriculture & Life Sciences

- Implement Development of Interdisciplinary Programs
- Coordinate Graduate Education Programs
- Provide Leadership in TAES for the Applied and Molecular Sciences

J. Charles Lee, Search Chairman
Associate Dean–College of Agriculture and Life Sciences
Associate Director–TAES
Texas A&M University
System Administration Building
Room 113
College Station, Texas 77843-2147
(409) 845-6113
Maximum consideration will be given to applications received by January 1, 1990.

ASSOCIATE DEAN
FOR RESEARCH AND GRADUATE PROGRAMS
(Associate Director of Research–TAES)
College of Veterinary Medicine

- Direct Graduate Programs
- Coordinate Research Programs
- Provide Leadership in TAES
- Develop Cooperative Animal Research

Timothy D. Phillips, Search Chairman
c/o Office of the Dean
College of Veterinary Medicine
Texas A&M University
College Station, Texas 77843-4461
(409) 845-5092
Applications will be received until December 8, 1989 or until a suitable candidate is found.

DIRECTOR
CENTER FOR COMPARATIVE ANIMAL GENETICS
Institute of Biosciences & Technology
(Located in Texas Medical Center–Houston)

- Develop Interdisciplinary Research Center
- Facilitate Development of Transgenic Animal Systems
- Develop Joint Research Programs with Institutions of the Texas Medical Center
- Coordinate the Integration of the Houston/College Station Programs

John A. Shadduck, Search Chairman
Dean of Veterinary Medicine
College of Veterinary Medicine
Texas A&M University
College Station, Texas 77843-4461
(409) 845-5053
Maximum consideration will be given to applications received by January 1, 1990.

CHAIR IN AGRICULTURAL BIOTECHNOLOGY
College of Agriculture and Life Sciences

- Provide Campus Leadership in Molecular Animal Sciences
- Maintain Leading Animal Biotechnology Research Program
- Lead in Efforts for Application of Molecular Research to Production Animal Improvement
- Implement Medicine/Agriculture Research Linkage

H. Russell Cross, Search Chairman
Associate Department Head, Research Department of Animal Science
Texas A&M University
College Station, Texas 77843-2471
(409) 845-1542
Applications will be received until December 8, 1989 or until a suitable candidate is found.

TEXAS A & M UNIVERSITY IS AN EQUAL OPPORTUNITY EMPLOYER
ENDOWED PROFESSORSHIP IN VETERINARY PATHOLOGY. The Department of Veterinary Pathology at the University of Georgia invites applications for the Fred C. Davison Chair in veterinary medicine. The applicant should possess the D.V.M. and Ph.D. degrees and be an outstanding scientist with an exceptional reputation in animal disease research. The successful candidate will be expected to have an active research program supported by extramural funds and be involved in graduate education. The endowment has support for a technician and funds for equipment and research. Application deadline is 1 January 1990. Curriculum vitae and names of four references should be sent to: D. E. Tyler, Department of Veterinary Pathology, University of Georgia, Athens, GA 30602. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for 2 years to study deutenum enrichment in CAM plants. Experience in tissue culture and extraction of plant biochemical components necessary, willing to learn techniques used in measuring stable isotope ratios. Send curriculum vitae and three letters of reference to: Dr. Leonel Sternberg, Department of Biology, University of Miami, Coral Gables, FL 33124.

POSTDOCTORAL ASSOCIATE MAMMALIAN DEVELOPMENTAL GENETICS

A position is available immediately in the Center for Molecular and Genetic Medicine (CMGM) at Stanford University to study the genetic control of early mouse development. Specific projects include the isolation of mutations that affect peri-implantation development based on their genetic map position and the identification of new mutations in embryonic stem cells. Candidates should have a strong background in molecular genetics. Send curriculum vitae, statement of research interests, and names of references to: Dr. Greg Barsh, CMGM, Stanford University Medical Center, Stanford, CA 94305-5428. Telephone: 415-723-5035.

Postdoctoral Position

The Medical Research Division of American Cyanamid Company has an immediate opportunity available for an individual to join its newly organized research group that is studying the mechanisms by which Grampositive pathogens acquire iron from mammalian hosts. Candidates should have a strong background in molecular genetics, preferably with application to prokaryotes. Knowledge of microbial transport systems would also be helpful, but not essential.

Working at Lederle Laboratories' 580-acre campus-like setting just north of New York City, you'll receive a very competitive starting salary and comprehensive benefits. Interested candidates may submit curriculum vitae with three references to: Professional Employment Office, Dept. IC, Lederle Laboratories, N. Middletown Road, Pearl River, NY 10965. An Equal Opportunity Employer M/F.

UMDNJ—Graduate School of Biomedical Sciences

Invites application to the Ph.D. Graduate Program in Molecular Genetics and Microbiology at UMDNJ—Robert Wood Johnson Medical School.

Demonstrated interest in research and teaching is required. Please include with your application a statement of research interests and plans, a summary of your education and training, and the names of three references.

Only molecular biology and biochemistry Ph.D. candidates will be considered.

FACULTY

Edward Arnold
Kenneth J. Breslauer
Kiron Das
David T. Denhardt
Ralph Dornburg
Joseph P. Dougherty
Donald T. Dubin
Joachim B. Kohn
Jerome A. Langer
Michael J. Leibowitz
John Lenard
Joachim W. Messing
Julian J. O'Rear
Sidney Pestka
Abbas Rashidbagi
Yacov Ron
R. Walter Schlesinger
Aaron J. Shattkin
Stanley Stein
Victor Stollar
Evelyn M. Witkin

RESEARCH INTEREST

X-ray crystallography of viral proteins, molecular modeling, antiviral design
Nucleic acid structure and drug DNA binding studies
Immunology of ultraviolet cells
Coprogen illness
Regulation of cell proliferation in cancer, aging
Retrovirus evolution; retroviral vectors in gene transfer
Retrovirus replication and retroviral vectors
Antibiotic resistance: HIV structure and diagnosis
Design of new peptide hormones for medical usage
Interferon and interferon receptors
Viruses and plasmids of yeast; molecular parasitology
Enveloped virus proteins, fungal hormones
Gene expression in plants, M13 cloning, gene synthesis
Cell cycle regulation; human genome structure/function
Interferon, receptors, expression of proteins
Interferons and their molecular mode of action
Differential of T and B lymphocytes
Methods of viral virulence
Gene expression in eukaryotic cells and viruses
Synthesis and analysis of peptides and proteins
Virus-host cell interactions of arboviruses
DNA repair and induced mutagenesis in bacteria

These faculty from UMDNJ—Robert Wood Johnson Medical School and Rutgers, The State University of New Jersey, including the New Jersey Center for Advanced Biotechnology and Medicine are the nucleus of a graduate program. This program provides courses and thesis research opportunities in laboratories with sophisticated instrumentation and computer access. Merit-based fellowships are available providing an annual stipend of $12,000 plus tuition.

Prospective students should write to: Director of Graduate Studies, Department of Molecular Genetics and Microbiology, UMDNJ—Robert Wood Johnson Medical School, 675 Hoos Lane, Piscataway, New Jersey 08854, for more information and an application form.

The University is an affirmative action/equal opportunity employer.
PRE-DOCTORAL POSITIONS
M.I.T.
Molecular, Chemical, & Genetic Analysis of the Chemical-Biologic Interactions Related to Cancer & Genetic Disease
Whitaker College of Health Sciences and Technology Graduate Program in Toxicology

Faculty
John M. Essigmann Area of Interest
John M. Essigmann DNA Repair and mutagenesis
James G. Fox Gastrointestinal microflora & endogenous carcinogens
Steven R. Tannenbaum Chemistry of macromolecular adducts; nitric oxide
William G. Thilly Mutational spectra: mechanisms & genetic epidemiology
Gerald N. Wogan DNA adducts & genetic change in carcinogenesis
Helmut Zarbl Transformation effector & suppressor genes, oncogens; gene expression

Full support (stipend and tuition) is offered to all accepted candidates. For program information and an application, CONTACT: Debra A. Luchanin, Academic Administrator, Division of Toxicology, Room 16-330, M.I.T., Cambridge, MA 02139, (617) 253-5804.

MIT is an Equal Opportunity Employer.

BUILDING A NEW LAB?

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1515 BROADWAY
NEW YORK, N.Y. 10036

Research Scientist
Pharmacology

Whitby Research Incorporated, a wholly-owned subsidiary of Ethyl Corporation, situated on the campus of the University of California at Irvine, is a pharmaceutical research firm committed to the discovery and development of new drugs. We currently have an opening for a Pharmacologist.

The successful candidate will be involved in the development of bioassays using in vivo models to evaluate the specificity and efficacy of new chemical entities developed by the company. Responsibilities also include the coordination of various research programs with academic and industrial scientists worldwide.

Qualified candidates will have a Ph.D. with 3 or more years postdoctoral experience in in vivo physiology and pharmacology. Industrial pharmaceutical experience is desirable. Excellent oral and written skills are essential.

Whitby Research Incorporated offers a professional environment and competitive salary and benefits. Interested candidates may send resume with salary history to:

Manager, Human Resources
Whitby Research Incorporated
1001 Health Sciences Road West
Irvine, CA 92715

An Equal Opportunity Employer.

Cystic Fibrosis (CF) Research Grants
NIH-APPROVED
BUT
UNFUNDED APPLICATIONS

The Cystic Fibrosis Foundation invites highly meritorious applications that have been submitted to and approved by the National Institutes of Health (NIH) but remain unfunded. This program offers support for outstanding CF-related research projects until NIH or other agency funding can be obtained.

Proposed projects must have been reviewed by an NIH study section and presented to an institute council within six months of applying to this program. Applications must fall within the upper 50th percentile, with a scientific priority score of 250 or better.

Applications must be clearly relevant to cystic fibrosis. A maximum of $75,000 in annual support will be available for up to two years. Investigators will be required to resubmit applications to the NIH.

Applications are being accepted on a continuing basis. Investigators are encouraged to contact Dr. Robert J. Beall at the Foundation to discuss the potential relevance of their work.

Cystic Fibrosis Foundation

6931 Arlington Road
Bethesda, MD 20814
(301) 951-4422
POSTDOCTORAL-RESEARCH ASSOCIATE 
POSITIONS OPEN 

POSTDOCTORAL-RESEARCH ASSOCIATE POSITION available for a recent graduate interested in applying electrophysiological techniques to study ion transport in both human tissue and in a mouse model of colorectal cancer with intracellular and extracellular micro-electrodes, patch clamping, or vesicles an advantage. Salary open. Send curriculum vitae and addresses of three references to: Dr. B. J. M. D., or Dr. M. Thompson, Ph.D., H891B, University of California Medical Center, 225 Dickinson Street, San Diego, CA 92103. Telephone: 619-543-6840.

POSTDOCTORAL RESEARCH TRAINING IN NEUROSCIENCE. Immediate appointments are invited for 2- to 3-year postdoctoral training in cognitive neuroscience at Dartmouth Medical School and College. Particular interests include investigators examining cognitive and pharmacologic aspects of cognition. Send curriculum vitae and two letters to: M. S. Gazzaniga, Program in Cognitive Neuroscience, Dartmouth Medical School, Hanover, NH 03756.

POSTDOCTORAL RESEARCH POSITION Ph.D. in pharmacology or neurobiology, experience in vivo and ex vivo techniques, strong background in neuroanatomical/neurochemical approaches, especially catecholamine and other neurotransmitter studies of dopamine systems utilizing neurochemical/neuroanatomical studies of dopamine-uptake in vivo and ex vivo. Experience in experimental design and behavior studies of dopamine systems utilizing neurochemical/norepinephrine and related biochemical methodologies is required. Send curriculum vitae and three references to: L. E. H. Ellinwood, Box 3870, Department of Psychiatry, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

THE UNIVERSITY OF CALIFORNIA, San Diego (UCSD), is seeking a Ph.D. applicant for a POSTGRADUATE RESEARCHER (PGR). Candidates should have experience in molecular biology and retrovirology or herpesvirology to conduct research in AIDS pathogenesis and the role of viral cofactors. Position available immediately. Salary range based on University of California policy. Applicants should send curriculum vitae with a list of three references no later than 30 April 1990 to: Stephen A. Spector, M.D., Associate Professor, Department of Pediatrics and Microbiology, UCSD Medical Center, 225 Dickinson Street (H-814-H), San Diego, CA 92103. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. Department of Chemistry. Ph.D. in chemistry, 3 years of experience in related occupation as research assistant. Performs experiments in photochemical reaction development and analysis. Designs and synthesizes optically active transition metal complexes as catalysts. Stoichiometric stereoselective reactions of these transition metal complexes will also be performed. Must have experience and interest in the areas of above-mentioned reactions. Also involves handling of air-sensitive and moisture-sensitive chemicals and various analytical methods including multi-nuclear, 1H, 13C, and 19F NMR spectroscopy, and high-pressure reactions. Writes scientific articles for publication and makes oral presentations at scientific conferences. Salary: $15,000 per year; 40-hour work week. Application by resume to: Colorado Department of Labor and Employment, Grant Street, Suite 900, Denver, CO 80202-528. Resume deadline: November 1, 1990. Equal Opportunity/Affirmative Action Employer.

THE DIVISION OF PLASTIC SURGERY, UNIVERSITY OF WASHINGTON, is seeking full-time research faculty members, pending final budget approval. Applicants should have demonstrated experience in tissue culture and cell culture methods. Successful applicant(s) will conduct original research, share projects with M.D. division surgeons, and supervise the laboratory. Academic rank is dependent on qualifications. Mail curriculum vitae and bibliography to: Loren Engraff, M.D., Chief, Division of Plastic Surgery, Department of Surgery, Room RP-25, University of Washington, Seattle, WA 98195. No phone calls, please. Women and minority applicants are encouraged to voluntarily identify themselves. Equal Opportunity/Affirmative Action/Equal Employment Opportunity Employer.

RESEARCH SCIENTISTS. The San Diego State University College of Sciences and the Center for Research, Training and Development are joining immediately in the Systems Ecology Research Group to join a research team investigating the effects of disturbance on ecosystem ecotones. Openings in: simulation modeling (ecosystem, community, and landscape modeling), plant physiological ecology (ecosystem gas exchange, plant carbon, and water flux), and nutrient cycling/plant growth (nitrogen cycling, soil chemistry, stable isotopes). Appointments are at the post-doctoral assistant, associate, or assistant professor level, depending upon qualifications. Send curriculum vitae, statement of research interests, and names and addresses of three references for the position to: Search Committee, Research, Training and Development Group, San Diego State University, San Diego, CA 92182, or call James F. Reynolds at 619-594-5976. Equal Opportunity/Affirmative Action/TITLE IX Employer.

RESEARCH ASSOCIATE, SPACE PHYSICS. To be responsible for computer simulation and analysis of magnetohydrodynamic phenomena which occur in Earth's magnetosphere. Extended experimental numerical codes for study of convection phenomena, magnetic field reconnection phenomena, and shock phenomena (e.g., bow shock, magnetopause) will be included. Solving quasi-static MHD equations numerically to look for self-consistent, steady-state, equilibrium configuration of Earth's magnetotail during connection, solving full MHD equations numerically to investigate tearing-mode instability and ensuing magnetic field reconnection in geomagnetic configuration and their relationship to geomagnetic storms, and producing analysis and numerical simulations of structure of Earth's magnetopause, including rotational discontinuities and intermembrane shocks. Must possess Ph.D. in space physics together with 1 year in position offered or 1 year in research in space physics. Must also possess demonstrated expertise in development of models or tools for transition to space plasma; demonstrated expertise in space plasma physics and in use of analytical tools for study of dynamic phenomena in space plasma; and demonstrated general knowledge of plasma theory. Salary: $20,000 to $25,000 for 5-day, 40-hour work week. Resumes only to: New Hampshire Department of Employment Security, Attn: B-102, 32 South Main Street, Concord, NH 03301.

RESEARCH ASSOCIATE, Department of Chemistry. Ph.D. in chemistry, 3 years of experience in related occupation as research assistant. Performs experiments in photochemical reaction development and analysis. Designs and synthesizes optically active transition metal complexes as catalysts. Stoichiometric stereoselective reactions of these transition metal complexes will also be performed. Must have experience and interest in the areas of above-mentioned reactions. Also involves handling of air-sensitive and moisture-sensitive chemicals and various analytical methods including multi-nuclear, 1H, 13C, and 19F NMR spectroscopy, and high-pressure reactions. Writes scientific articles for publication and makes oral presentations at scientific conferences. Salary: $15,000 per year; 40-hour work week. Application by resume to: Colorado Department of Labor and Employment, Grant Street, Suite 900, Denver, CO 80202-528. Resume deadline: November 1, 1990. Equal Opportunity/Affirmative Action/Equal Employment Opportunity Employer.

RESEARCH SCIENTIST. Ph.D. cell biologist to join a collaborative research group investigating skin and synovial matrix protein structure, organization, and influence on fibroblast growth and behavior. Experience in cell culture techniques, immunohistochemistry, and molecular biology desirable. Research will be based at Carnegie Mellon University's Institute for Fluorescence Microscopy collaboration laboratory with the Western Pennsylvania Hospital Foundation and at the University of Pittsburgh College of Medicine. This long-term appointment is highly attractive and carries a competitive salary and benefits and start-up support for research from the Western Pennsylvania Hospital Foundation. Send curriculum vitae and two letters of recommendation to: Dr. W. W. Carlton, Pathology Section Head and Search Committee Chairman, Department of Veterinary Pathology, School of Veterinary Medicine, 310 North River Road, Wilkes-Barre, PA 18702. Resume deadline: January 1, 1990. Equal Opportunity/Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST. Ph.D. in molecular biology/ biochemistry and a minimum of 4 years of experience in biopolymer engineering. Experience may be as a postdoctoral researcher, including both intracellular polymers and extracellular polysaccharides. Thorough knowledge of molecular genetics, molecular biology, and enzymology of biopolymer genes and enzymes needed. Strong background or experience with industrial microorganisms. Demonstrated publication record in refereed journals. Salary: $36,000 per year. Contact: Massachusetts Department of Employment and Training Special Professor Search Committee, 19 Stanford Street, Boston, MA 02114. Refer to job order 91285.
Staff Scientists

The Health Effects Institute (HEI) is an independent, non-profit organization that funds and evaluates biomedical research on the health effects of motor vehicle pollutants. It is jointly sponsored by the United States Environmental Protection Agency, and the domestic and foreign motor vehicle industry. HEI has several openings for individuals interested in applying their scientific background to problems in environmental science.

General qualifications for these positions are:

- Doctoral degree in biomedical or environmental sciences
- Postdoctoral research experience
- Interest in science management
- Good oral and written communication skills

Specific positions are described below.

- **Research Staff Scientists**

  HEI is seeking two Research Staff Scientists to work with the Institute’s Health Research Committee and Director of Research to develop and oversee its research program, which includes studies of CO, NOx, O3, methanol, aldehydes and diesel exhaust using in vitro, animal, clinical and epidemiological approaches. Responsibilities include:

  - Evaluating potential research areas
  - Writing requests for applications
  - Interacting with HEI investigators and monitoring their studies
  - Planning workshops and site visits

  The candidate should have a broad scientific background and research experience. For the current openings, the following backgrounds are most relevant:

  - Epidemiology and exposure assessment
  - Lung physiology, biochemistry and pathology

- **Review Staff Scientist**

  Studies funded by HEI are subject to a rigorous peer-review process before publication as HEI Research Reports. The Review Staff Scientist will work with the HEI Review Committee and the Director of Review and Scientific Evaluation to coordinate the peer-review process, to put the HEI-funded studies into scientific and public policy contexts, and to prepare critical evaluations of selected research areas.

  Responsibilities include:

  - Management of the review process
  - Interaction with HEI-funded investigators, the HEI Review Committee, and other members of the scientific community
  - Preparation and editing of HEI Research Reports
  - Writing critical reviews

  The successful candidate must have a demonstrated ability to write well, and to communicate scientific information. Experience in one or more of the following areas is particularly desirable: cell biology, genetic toxicology, biochemistry, or epidemiology.

  Application Procedures: Please send a curriculum vitae, a recent writing sample, and the names, addresses and phone numbers of three references with a cover letter specifying the position(s) being applied for to: Ms. Gail Allosso, Health Effects Institute, 215 First Street, Cambridge, MA 02142. An Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF ALABAMA AT BIRMINGHAM

DEPARTMENT OF PSYCHIATRY AND BEHAVIORAL NEUROBIOLOGY

Geropsychiatrist with M.D., Ph.D. background in basic neuroscience. Academic experience, geropsychiatric fellowship and clinical experience a plus in order to participate in pharmacologic trials and Alzheimer’s projects. Salary and rank commensurate with experience and qualifications.

Three positions for academically-oriented psychiatrists with broad-based skills in diagnosis and treatment, resident teaching, for evaluation and specialty clinics or community mental health program associated with UAB. Salary and faculty appointment commensurate with experience and qualifications.

Please call and/or send CV, indicating area of interest, to David L. Garver, M.D., Chairman, Department of Psychiatry & Behavioral Neurobiology, University of Alabama at Birmingham, UAB Station, Birmingham, AL 35294 (205) 934-4041. An AA/EO Employer.
RESEARCH ASSOCIATE POSITION available to investigate the role of coagulation factors. Send curriculum vitae, description of research, and telephone numbers of three references to Dr. Norman Eberhardt, 4-407 Alfred, Mayo Clinic, Rochester, MN 55905. Equal Opportunity Employer.

RESEARCH ASSOCIATE in medical genetics using the hemoglobinopathies as models. Studies involving in vitro gene expression with gene cloning and sequencing and DNA amplification. Applicant should have 2 years of experience or 2 years of related experience in medical molecular biology. Require M.D. or Ph.D. degree with major field of study in medical genetics. Salary: $21,000 per year for 40 hours per week. Qualified applicants may contact: Georgia Department of Labor, 601 Greene Street, Augusta, GA 30913, or apply to the nearest Georgia Job Service Center. Control #GA 5390603. An Equal Opportunity/Affirmative Action Employer. Female and minorities are encouraged to apply.

STAFF DIRECTOR CHEMICAL SCIENCES AND TECHNOLOGY

The National Research Council (NRC) is seeking a staff director for its Board on Chemical Sciences and Technology (BCST). BCST is the NRC’s principal vehicle for addressing issues in biochemistry, chemistry, chemical engineering and related disciplines for calling attention to solutions of important national problems, issues on productive federal emergency cooperation, and identification of gaps in support of all the chemical sciences. BCST also initiates studies and oversees participation of the U.S. scientific community in international disciplinary unions of the International Council of Scientific Unions (ICSU).

Responsibilities include planning and directing work in the areas of chemistry, biochemistry, and related disciplines; calling attention to solutions of important national problems; and identifying gaps in support of all the chemical sciences.

Salary: $21,000 per year for 40 hours per week. Qualified applicants may contact: NRC, NAS 282-WS, 2101 Constitution Avenue, N.W., Washington, D.C. 20418. Equal Opportunity Employer.

VETERINARY IMMUNOParasitologist:

Kansas State University College of Veterinary Medicine is seeking applicants for a tenure-track position in immunoparasitology. Appointment will be as an Assistant/Associate Professor, 60 to 80% research, 20 to 40% instruction. This faculty member will be expected to develop an independent and collaborative research program and participate in D.V.M., graduate, and C.E. instruction. A Ph.D. with evidence of training and experience in parasitic diseases of domestic animals preferred. Submit curriculum vitae, a statement of career goals, and the names and addresses of three references to: Dr. Robert K. Ridley, Department of Veterinary Medicine, Kansas State University, Manhattan, KS 66506. Kansas State University is an Equal Opportunity Employer. Minorities, women, and other protected group members are encouraged to apply.

VETERINARY PATHOLOGIST:

The Department of Veterinary Microbiology and Pathology, Washington State University (WSU), seeks a veterinary pathologist for a full-time tenure-track appointment. The position offers 50% time for research, and the successful candidate will be expected to develop extramurally supported research programs in an area complimentary with existing departmental programs in infectious diseases, host-parasite interactions, or animal models of human disease. The position has also a 50% pathology service appointment to the Washington Animal Disease Diagnostic Laboratory. D.V.M. and Ph.D. degrees are required. ACVP certification is desired, and intention to pursue ACVP certification is required. Experience in teaching veterinary pathology is desirable and ability to communicate effectively with students, clients, and veterinary practitioners is required. Rank and salary commensurate with training and experience. Washington State University has an affirmative equal opportunity policy. Final screening will begin 15 January 1990 and will continue until the position is filled. In order to receive full consideration, applicants should submit curriculum vitae and names and address of three references to: Dr. Terry F. McElwain, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA 99164-7040, by 15 January 1990. An Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply.

OPENINGS FOR SCIENTISTS

The Weizmann Institute of Science is now offering a limited number of temporary appointments to the position of scientist. Candidates must have completed 2 years of postdoctoral work. Appointments will be made in all the areas of scientific research at the institute:

- Life Sciences
- Chemistry
- Physics
- Mathematics
- Science teaching

Appointments are for a period of 1 year. However, they may be extended for a period not to exceed 5 years from receipt of Ph.D. degree (or equivalent). Successful appointments will be eligible to apply for promotion to the position of senior scientist.

Financial remuneration for a scientist is at the level of a lecturer and includes all of the associated benefits. In addition, a relocation stipend is provided. Application forms and additional information may be obtained from:

The Feinberg Graduate School The Weizmann Institute of Science Rehovot 76100, Israel

Applications are reviewed twice each year:

1 January and 15 May

VERTEBRATE ZOOLOGIST

Applications are invited for a tenure-track ASSISTANT PROFESSOR position. Research should be in the evolution, ecology, behavior, and/or functional morphology of vertebrates. Postdoctoral experience is highly desirable. The successful candidate will be expected to establish an independent research program and to participate in graduate training and undergraduate instruction. Competitive salary, facilities, and start-up support are contingent on successful curriculum vitae. Statement of research objectives, copies of recent publications, and have three letters of reference submitted by 10 January 1990 to the Committee on Search Committees, T. H. Morgan School of Biological Sciences, University of Kentucky, Lexington, KY 40506-0225.

An Equal Opportunity/Affirmative Action Employer.

FELLOWSHIP LABORATORY OF NEUROSCIENCES

The Laboratory of Neurosciences in the National Institute on Aging, National Institutes of Health, Public Health Service, invites applications for a Fellowship to study the neurobiology of genes from human chromosome 21 and mouse chromosome 16 by the use of transfected cultured neurons and the development of transgenic mice. Current laboratory projects include the effects of human trisomy 21 (Down Syndrome) and mouse trisomy 16 (a model of trisomy 21) or ionic currents, gene expression, lipid metabolism and receptor-second messenger signalling. Candidates should have experience in molecular biology and interest in the isolation of genes and chromosomal segments with the aim of determining the role of specific genes in aneuploid-related physiological abnormalities. Available from late 1989 - early 1990. Position is located in Bethesda, Maryland and salary is commensurate with qualifications. Send resume and the names of three references to: Stanley I. Rapoport, M.D. Chief, Laboratory of Neurosciences National Institute on Aging Bldg. 10, Room 6C-103 9000 Rockville Pike Bethesda, Maryland 20892 U.S.A.

NH is an EQUAL OPPORTUNITY EMPLOYER

The awards sponsored by the National Research Council are available at the U.S. Army Institute of Dental Research. The research opportunities include physiology and biochemistry of bone regeneration (which also includes studies of growth factors using bone cell culture), purification and characterization of bone-inductive proteins and mononuclear antibodies, engineering of predictably degrading bone-regenerating systems, biodegradable polymer systems and microencapsulation and time-release drug delivery systems. Doctoral degree in life sciences or biomedical sciences is required. Annual stipend for recent graduates is $28,000 and is appropriate for those with more than 5 years of experience. Relocation reimbursement and funds for professional travel are available, and a health insurance program is offered. Awards are for 1 year with possible renewals to a total of 3.

For further information contact:
Dr. Jeffrey Hollinger at (202) 576-3764 or Dr. Anshuman Chaudhari at (202) 576-2096.

Their mailing address is: U.S. Army Institute of Dental Research Washington, D.C.

For application materials, write to: Associate ProgramsWashington, D.C. 20307-5300

Application Deadlines are January 15 and August 15, 1990.
CONGRESSIONAL SCIENCE AND ENGINEERING FELLOWSHIPS

Applications Invited

The American Association for the Advancement of Science (AAAS) invites applications for two one-year Congressional Science and Engineering Fellowships. It will offer for the period beginning September 1, 1990. The fellowship program provides an opportunity for accomplished and societally aware postdoctoral to mid-career scientists and engineers to participate in and contribute to the public policy-making processes within the Congress. Fellows work as special legislative assistants within the congressional staff system.

Persons may apply from any physical, biological or behavioral science or any field of engineering. The term "science" is used broadly to include the system sciences, public health, and other technical professions. In addition to the fellowships awarded by the AAAS, about 15 others are given by other participating professional societies. The AAAS runs a year-long seminar program for both its own Congressional Science and Engineering Fellows and those selected by the participating societies. Addresses of all participating societies are available from the address listed below.

The 1990–91 AAAS Congressional Science and Engineering Fellows will receive a stipend of $38,000; an additional $2,000 is available for relocation expenses and travel in connection with the program.

The deadline for submission of application materials is January 15, 1990. The award will be announced about May 1, 1990. For detailed information on the program and specific application requirements, write:

Congressional Science and Engineering Fellows Program
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005
Telephone 202/326-6600

A high degree of innovation, an international reputation for excellence and the ability to research, develop and manufacture diverse pharmaceutical products, have brought Genetics Institute to the forefront of our industry.

Ph.D. Biochemists

We are currently seeking several staff scientists to join our research organization in Cambridge, Massachusetts.

One position will work within our Tissue Growth & Repair Laboratory and will be responsible for initiating and directing aggressive research aimed at developing a well-defined matrix for delivery of BMP. A Ph.D. in Biochemistry and a minimum of three years of relevant postdoctoral or industry experience with Protein/Protein interactions, separation and reconstitution is required. The second position will work within our Protein Chemistry Laboratory and will conduct research on the refolding of proteins expressed in E.coli. The ideal candidate will have a minimum of two years of postdoctoral or industrial experience in protein purification, characterization and refolding.

We offer a stimulating and dynamic work environment in addition to an excellent salary, comprehensive benefits program and stock ownership programs.

Interested candidates should forward a resume, in confidence, to: Sheri Rist, Genetics Institute, 87 Cambridge Park Drive, Cambridge, MA 02140.

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SCIENCE, ENGINEERING AND DIPLOMACY FELLOWSHIPS

Applications Invited

The American Association for the Advancement of Science (AAAS), in cooperation with the U.S. Agency for International Development (AID) and the Department of State (STATE) is seeking applicants for approximately twelve Science, Engineering and Diplomacy Fellowships. Fellows will spend one year, beginning September 1, 1990, working either in the Bureau of Oceans and International Environmental and Scientific Affairs of the U.S. Department of State or in one of several bureaus and offices of the Agency for International Development. Other assignments may also be possible.

Prospective Fellows must demonstrate exceptional competence in some area of science or engineering, be flexible, have some experience and/or a strong interest in applying knowledge toward the solution of problems in the area of foreign affairs, and have a Ph.D. or equivalent in years of experience. Awardees will work in international affairs on scientific and technical subjects: foreign policy for STATE and international development for AID. In general, individuals are urged to apply from any area of physical, biological, behavioral, and social science and engineering and whose experience and training is applicable to any one of the following areas: health and population; food and agriculture; nuclear non-proliferation; scientific exchange; forestry, natural resources and ecology; oceans and fisheries; communications; national security; and human resources and education, among others.

The Fellows will serve a one-year appointment at a salary consistent with education level and experience, if possible, but not exceeding the GS-12 level (beginning at about $35,000). The fellowship award is limited to U.S. citizens and is contingent upon the selectee obtaining a security clearance. Deadline for receipt of application is January 15, 1990. For more information and application details write:

Science, Engineering and Diplomacy Fellows Program
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005
Telephone 202/326-6600

UNIVERSITY OF MASSACHUSETTS, AMHERST

DEVELOPMENTAL NEUROSCIENCE

The Neuroscience and Behavior Program (NSB) seeks a tenure-track faculty member at the assistant professor level. We seek candidates using molecular, genetic or modern cellular approaches to examine the development of the nervous system. Investigators studying the effects of hormones, the role of cell lineages in invertebrate nervous systems, or molecular and genetic aspects of nervous system development would be especially welcome.

The NSB Program is a multi-department graduate program that grants a PhD in Neuroscience and Behavior. It consists of 24 faculty, primarily members of the Zoology and Psychology Departments. The successful candidate will be an assistant professor in the Zoology Department. Duties include teaching and supervision of graduate students in both the Zoology Department and in the NSB Program. A PhD degree and postdoctoral experience are required. The salary will be commensurate with experience. Liberal space and start-up funds are available.

Send vita, summary of research interests, and have three letters of recommendation sent to: Dr. R.K. Murphey, Director, Neuroscience and Behavior Program, Morrill Science Center (Zoology), University of Massachusetts, Amherst, MA 01003.

The search will close December 15, 1989 or as soon thereafter as a suitable candidate is found. The University of Massachusetts is an Affirmative Action, Equal Opportunity Employer.

Genetics Institute
**POSITIONS OPEN**

**RESEARCH VIROLOGIST**

Baxter Healthcare Corporation is currently seeking an experienced virologist to head a research and development group focused on virus regulation and inactivation. Responsibilities include developing a research program in virus regulation and inactivation, managing virology research staff, and developing assay systems for virus quantitation and inactivation. We are seeking an individual with a Ph.D. or equivalent degree with 5 to 10 years of research experience in the virology field (associate professor level in the academic field). Experience in human virus research is desirable. As a Fortune 75 leader, Baxter provides an excellent salary and benefits package, including tuition reimbursement, 401(k), company-paid retirement program, and employee stock purchase plans. For immediate consideration, please forward your resume with salary history to: Pam Miller, Human Resources Director (WG1-1N), Baxter Healthcare Corporation, Route 120 and Wilson Road, Round Lake, IL 60073. Equal Opportunity Employer.

**RESEARCH GRANTS**

**PARKINSON RESEARCH GRANTS**

1 JUNE 1990 TO 31 MAY 1991

The National Parkinson Foundation invites the submission of grants for Parkinson's research. A total of $300,000 will be made available to support basic bench research on Parkinson's disease. The award for a single grant will not exceed $50,000. None of the funds are to be utilized for administrative overhead or travel expenses. The application deadline is 1 February 1990, grant starting date will be 1 June 1990. It is required that proposals include studies which focus on mechanisms involved in the disease process and that they have the potential of finding the cause and prevention of Parkinson's disease. Scientists entering the field of Parkinson research are encouraged to apply. Proposals will be reviewed by the National Parkinson Foundation Scientific Advisory Board. To obtain submission information, please write to:

National Parkinson Foundation, Inc.
Research Grants
1501 N.W. 9th Avenue
Miami, FL 33136

**FELLOWSHIPS**

**M.D./Ph.D. FELLOWSHIPS**

The Medical University of South Carolina (MUSC) offers $9000 stipends for studies leading to combined M.D./Ph.D. degrees in each of the basic biomedical sciences and molecular and cellular biology/medicine. Contact: Director, Medical Scientist Training Program, College of Graduate Studies, MUSC, 171 Ashley Avenue, Charleston, SC 29425.

**FOOD SCIENCE FELLOWSHIPS**

Three U.S. Department of Agriculture (USDA) National Needs doctoral fellowships will be awarded with a stipend of $15,000 per year for 3 years. The North Carolina State University (NCSU) Food Science Department has nationally recognized research programs in food chemistry, microbiology, engineering, processing, and nutrition. Must be a U.S. citizen and hold an M.S. degree in food science, chemistry, biochemistry, microbiology, engineering, or related discipline. Selected students must begin their studies no later than January 1991. Contact: Dr. David R. Lineback, Head, Department of Food Science, P.O. Box 7624, North Carolina State University, Raleigh, NC 27695—7624. NCSU is an Equal Opportunity/Affirmative Action Employer.

**GAHAN REGENTS’ FELLOWSHIP IN ENTOMOLOGY**

This research fellowship at the University of Maryland begins on 1 September 1990 and provides a 3-year, 12-month stipend toward the M.S. or Ph.D. degree in entomology. It includes $5000 per year for research-related expenses. Applicants must submit a proposal for the intended research project, three letters of support, official transcripts, and GRE scores. Deadline for application is 1 February 1990. For details contact: Dr. Charles E. Johnson, Department of Entomology, University of Maryland, College Park, MD 20742.

**FELLOWSHIPS**


**SMITHSONIAN POSTDOCTORAL FELLOWSHIPS IN MOLECULAR EVOLUTION AND VIROLOGY**

Postdoctoral fellowships in molecular evolution and plant physiology are available for research to be conducted at one or more of the following Smithsonian Institution bureaus: National Museum of Natural History (Washington, D.C.), National Zoological Park (Washington, D.C.), Smithsonian Tropical Research Institute (Panama). In addition, a portion of the research may be conducted at the Smithsonian Environmental Research Center (Maryland). Stipends are $24,000 annually, including travel. Tenures are from 12 to 24 months. Deadline: 15 February 1990. For information and applications, write: Office of Fellowships and Grants, Dept MS, Smithsonian Institution, Washington, DC 20560.

**POSTDOCTORAL FELLOWSHIP POSITION IN MOLECULAR VIROLOGY AND IMMUNOLOGY**

A postdoctoral position is immediately available for the study of either the molecular biology of HTLV-I and HIV-I, structure-function relationships in the human interleukin-2 receptor, or DNA binding proteins which regulate translation of T cell activation genes. Experience in molecular biology and/or biochemistry is required. Interested applicants should send curriculum vitae and names of three references to: Dr. Dean W. Ballard, c/o Dr. Warner C. Greene, Howard Hughes Medical Institute, Duke University Medical Center, P.O. Box 9387, Durham, NC 27710. Teléfono: 919-684-5458.

**RESEARCH FELLOWSHIPS IN EPIDEMIOLOGY OF LUNG DISEASES**

NIH-supported stipends and tuition fees for a 2-year program working in airways hyperactivity and/or natural history studies on chronic lung disease, along with didactic training in epidemiology leading to a master's degree from Harvard University. Must be eligible for internal medicine or equivalent. Candidates with clinical training in pulmonary diseases preferred but not required. Available for U.S. citizens or permanent residents. Inquire: Frank E. Speizer, M.D., Professor of Medicine, Harvard, Co-Director, Channing Laboratory, Department of Medicine, Brigham and Women's Hospital, 180 Longwood Avenue, Boston, MA 02115. This program specifically encourages applications by minority group members. The Brigham and Women's Hospital is an Equal Opportunity Employer.

**POSTDOCTORAL FELLOWSHIPS**

The Feinberg Graduate School of the Weizmann Institute of Science is now offering postdoctoral fellowships in the following areas:

**Life sciences**

- Physics
- Chemistry
- Mathematics
- Science teaching

These fellowships are intended for scientists who have recently earned their Ph.D. degree in the last 5 years. The fellowships provide a 12-month stipend (with cost of living adjustments), a relocation allowance, and airfare to Israel. If the fellowship is renewed for a second year, return airfare is provided and additional financial information may be obtained from:

The Feinberg Graduate School
The Weizmann Institute of Science
Rehovot, Israel

Applications are reviewed twice each year: 1 January and 15 May

**FELLOWSHIPS**

**PREDOCTORAL FELLOWSHIPS IN BIOLOGY**

Several fellowships providing full tuition and a $12,500 annual stipend are available to outstanding Ph.D. candidates for study of aquatic biology, biochemistry, botany, cell biology, developmental biology, ecology, entomology, molecular biology, neurobiology, and virology. For information, please contact: Professor Ellen J. Henderson, Chair, Committee on Graduate Students and Studies, Department of Biology, Georgetown University, Washington, DC 20057.

**ASSISTANTSHIPS**

**TEACHING ASSISTANTSHIPS** (including tuition waivers) available for qualified applicants beginning September 1990. Graduate study leading to M.S. or Ph.D. with concentration in biochemistry, botany, ecology, marine biology, microbiology, molecular and cellular biology, physiology, or vertebrate biology. For information, contact: Dr. Susan Powers-Lee, Graduate Coordinator, Department of Biology, Northeastern University, Boston, MA 02115. Northeastern is an Equal Opportunity/Affirmative Action/Title IX Employer.

**CONFERENCE**

The American Society for Cell Biology (ASCB) and the European Molecular Biology Organization will jointly sponsor a conference entitled:

"CELL CYCLE"


**SYMPOSIUM**

**SYMPOSIUM ON GROWTH FACTORS IN REPRODUCTION**

CHAIRMAN: DAVID W. SCHOMBERG, Ph.D.
1-4 APRIL 1990
Hyatt Regency Hotel
Savannah, Georgia

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Major scientific sessions are: mechanism of growth factor action, growth factors and gonadal function, regulation of normal and neoplastic mammary growth, regulation in reproduction, tissue specific expression of growth factors, and embryonal signaling. Offers sixteen CME credit hours. Abstract forms and registration information may be obtained by contacting: L. Lisa Kerri, Ph.D., Serono Symposia, USA, 100 Longfellow Circle, Norwell, MA 02061. Telephone: 800-283-8088; 617-982-9000.

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The price including drop counter is actually lower than competing round collectors! Add Retriever II's three-year warranty, compact size, linear configuration, and 174 tube capacity, and you can see why it's the best value in mid-size fraction collectors.

Phone toll free (800)228-4250 or write Isco, Inc., P.O. Box 5347, Lincoln, NE 68505.
"Recovering and purifying trace amounts of protein is surprisingly easy"

Chromatographers speak out about the Gilson Auto-Prep HPLC system

The Gilson Auto-Prep HPLC system has one pump for mobile phase delivery, another for repetitive sample injection. And that, according to a chromatographer in radiation oncology and cancer research, makes it surprisingly easy to recover trace amounts of protein from complex sample matrices. Repetitive injection of small volumes of sample allows the use of high-efficiency analytical or semi-prep columns for high throughput, excellent resolution, and very pure fractions.

"Overnight operation has really increased throughput"

A pharmaceutical QC lab supervisor likes the capacity and reliability of the system. A multimode fraction collector with 120- or 540-tube capacity is the key. The collector—either the Gilson 201 or 202—has a stationary rack design. Unlike collectors with carousel racks, it won't jam. The collector acts as a system controller, and multiplex capability allows collection of fractions from the repetitive runs into the same set of tubes for automated sample purification.

"Analytical and prep run results are reproducible"

After method development with an analytical system, many labs switch to preparative scale sample purification. Or switch back and forth to perform purity checks. With Gilson HPLC pumps, you simply replace the pump head to change the flow rate. Eight interchangeable pump heads offer flow rates as high as 200 ml/min.

"It's a compact system that saves bench space"

The Gilson Auto-Prep system is made up of modular components. The basic system stack, including the detector and pumping modules, has a footprint of about one square foot. And the 201 fraction collector offers 120-tube capacity in an equally compact space.

"Upgrading to gradient analysis was easy"

The modular design that makes our systems easy to fit on a crowded bench also makes it easy to upgrade the system. Going from isocratic to gradient with the Auto-Prep system simply requires the addition of pumping modules and, when necessary, a controller. All components from the original system are used, so none of your initial investment is lost.

To hear more, contact us today

We'll start by sending you a data sheet on this and other Gilson HPLC systems. Then, if you'd like, we'll put you in touch with some of the researchers we've been talking to. You can ask them yourself about the performance of the Gilson Auto-Prep HPLC system. Just mark the reader service number below. Or call us toll-free at 800-445-7661 (In Wisconsin call 608-836-1551).