**POSITIONS OPEN**

**BIOSCIENCES: ASSISTANT PROFESSOR, tenure-track position, August 1992 starting date.** Research interests in plant physiology/plant biochemistry related to areas in molecular systematic and evolutionary biology. The Ph.D. degree is required and postdoctoral experience desirable. The successful candidate is expected to develop strong research activity in productivity, seek and secure extramural funding, and participate in recruiting and advising graduate students with primary focus on the doctoral level. This position requires a Ph.D. in plant physiology/plant biochemistry (one term), team teach freshman majors course (one term), and alternate year graduate specialty course. Salary dependent on qualifications and experience.

Submit letter of application, résumé, copies of recent major publications, and arrange for arrival of all transcripts and three letters of recommendation by the application deadline: 10 January 1992. Send to:

Dr. G. F. Larkin, Chair
Botany Search Committee, Box 25
Department of Biological Sciences
Kent State University
Kent, OH 44242

**BIOLOGY, ASSISTANT PROFESSOR.** Hobart College for men and William Smith College for women are residential liberal arts colleges located on the western shore of Seneca Lake in upstate New York. The Biology Department invites applications for a tenure-track position available July 1992. The individual studying evolutionary questions at the molecular, organismal, or population level are encouraged to apply. Responsibilities include teaching a course in evolution, a course in the candidate's specialty, participating in the introductory biology course, and contributing to the colleges' general curriculum. In addition, the candidate is expected to implement a research program that involves undergraduates. Candidates must have the Ph.D. degree by the starting date. Applicants should send curriculum vitae, a statement of teaching philosophy and goals and a statement of research interests, official transcripts showing all degrees received, and three letters of reference to: Valerie M. Kish, Biology Department, Hobart and William Smith Colleges, Geneva, NY 14456. Review of applications will begin on 16 December 1991. Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR LEVEL DEPARTMENT OF SURGERY ROBERT WOOD JOHNSON MEDICAL SCHOOL AT CAMDEN**

Robert Wood Johnson Medical School at Camden is seeking applicants at the level of ASSISTANT PROFESSOR for the Division of Surgical Research. Newly created research seeks an independent and pioneering M.D. or Ph.D. who will help develop the facility and the program. Interest in the areas of cell culture, smooth muscle, cancer biology, wound healing, nutrition, monoclonal antibodies or microvascular physiology would be an asset. The candidate would also be expected to develop his own interests with available support.

Salary and research support are available and would be commensurate with experience and activity of the applicant.

Curriculum vitae should be submitted to:

Edward J. Doolin, M.D.
Division of Pediatric Surgery
Robert Wood Johnson Medical School
at Camden
Suite 411, Three Cooper Plaza
Camden, NJ 08103

Robert Wood Johnson is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR BIOCHEMISTRY.** With research interests in physical biochemistry, or enzyme/protein biochemistry. Tenure track, 9 months. Ph.D. in biochemistry or related field, postdoctoral research experience, several publications required. Teaching, extramural research funding, molecular cloning experience preferred. Screening begins 15 January 1992. Send applications including statement of research plan, CV, and three letters of recommendation to: Dr. Stanley Van Den Noort, Chairman, 107 Whitney Building, UCI, Irvine, CA 92715. Refer to position #91-6. Affirmative Action/Equal Opportunity Employer.
POSTDOCTORAL FELLOWSHIP in Complex Systems Studies at the Santa Fe Institute

The Santa Fe Institute, an equal opportunity employer, may have one or more openings for postdoctoral fellows beginning in September, 1992.

The Institute's research program is devoted to the study of complex systems, especially complex adaptive systems. Systems and techniques under study include the economy; the immune system; the origin of life; artificial life; models of evolution; neural networks; genetic algorithms and classifier systems; complexity, entropy, and the physics of information; nonlinear modeling and prediction; cellular automata; and others.

Candidates should have or expect to receive soon a Ph.D. and should have backgrounds in theoretical physics or chemistry, computer science, mathematics, economics, game theory, theoretical biology, dynamical systems theory, or related fields. An interest in interdisciplinary research is essential. Evidence of this interest, in the form of previous research experience and publications, is important.

Applicants should submit a curriculum vitae, list of publications, and statement of research interests, and arrange for three letters of recommendation.

Send applications to: Postdoctoral Committee, Santa Fe Institute, 1660 Old Pecos Trail, Suite A, Santa Fe, NM 87501. Applications or inquiries may also be sent by electronic mail to: postdoc@sfi.santafe.edu.

Deadline: February 1, 1992

Alkermes, Inc. is a neuropharmaceutical company, developing products for the treatment of diseases of the central nervous system. With a talented team of top-tier scientists and collaborators, Alkermes is making significant advances in neuropharmaceutical research.

Biochemists
We seek highly motivated, talented individuals to join our growing research team in protein biochemistry. Candidates should have a Ph.D. and 0-2 years of postdoctoral experience in protein chemistry. Familiarity with one or more of the following is a plus: biocatalysis, enzyme chemistry, monoclonal antibody technology, receptor biology.

This is a rare opportunity to become part of a dynamic young company. Each position offers an excellent salary and benefits package in a stimulating environment with an opportunity to make a major contribution to our organization. For consideration, please send your C.V. in confidence to: Alkermes, Inc., Box R, 26 Landsdowne Street, Cambridge, MA 02139-4234.

A Equal Opportunity Employer

Central Research
Bringing science to life.

Diabetes and Obesity Research
Solve the equation for success.

The field of pharmaceuticals and healthcare is more rewarding than ever as new products create a healthier world population. As one of the leaders in this dynamic industry, Pfizer Inc., a Fortune 100 company, is committed to continuing its remarkable growth.

The primary R&D facility for Pfizer Inc is located in a southeastern Connecticut shore community, giving easy access to the well known academic and cultural centers of the Northeast and offers the attractions of a New England lifestyle.

Our Diabetes and Obesity research group is currently seeking scientists with a Ph.D. in Biochemistry or related fields and experience with either Molecular Biology techniques or with in vivo modeling. Research experience in mechanisms controlling energy expenditure, insulin action, or carbohydrate metabolism would be advantageous.

We are also seeking laboratory scientists to conduct research in our Diabetes and Obesity group. A BS/MS or equivalent in a biological science, plus previous laboratory research experience, especially in the areas described above, would be a definite advantage.

We offer competitive salaries and a full range of benefits including medical and dental insurance, paid holidays and vacation, educational assistance, savings and investment plan, pension plan, relocation assistance and more.

To learn how you can be part of the future of Pfizer, send your resume to: Mr. Kym J. Goddu, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
The University of California
San Diego
Department of Biology
Faculty Position

The Department of Biology at the University of California, San Diego invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level. Applicants should have a Ph.D. in molecular biology and be expected to develop a highly interactive cell biology laboratory and will be expected to interact with both the areas of biochemistry and molecular biology and will be expected to develop a new, extramurally funded research program involving undergraduate and graduate students. Areas of research interest should be in fields such as cellular regulation and development, macromolecular structure and function, neuroscience, or protein engineering. Applicants will be given preference as will applicants with postdoctoral experience. Start-up funds will be provided. Hope College is a co-educational, liberal arts college with approximately 2400 students and is affiliated with the Reformed Church in America. The college has a long tradition of academic excellence in undergraduate science education and is recognized for its well equipped research facilities. Candidates should demonstrate an ability to combine teaching excellence with scholarship and research. Special consideration will be given to candidates with a character and goals of a liberal arts college with a Christian perspective. Applicants should submit a curriculum vitae, appropriate transcripts, and a brief description of research plans and interests to Dr. Christopher C. Barney, Chairperson, Biochemistry/Molecular Biology Search Committee, Hope College, Holland, MI 49423. Initial review of candidates will begin on 15 January 1992. Hope College complies with federal and state requirements for nondiscrimination in employment. Applications are strongly encouraged from women and minority persons.

Biochemist: Knox College invites applications for the new faculty position of biochemist at the ASSISTANT PROFESSOR rank, with a joint appointment in biology and chemistry. It is funded by a Howard Hughes Medical Institute grant to Knox. The candidate is expected to teach introduction to chemistry and biochemistry as well as upper-level biochemistry courses. Undergraduate research is an essential part of our program and the candidate will develop an undergraduate research program. Central to the expectations for this position will be to assist biology and chemistry to shape a new biochemistry major. A Ph.D. in biochemistry is required; some teaching or research experience is preferred. The Biology and Chemistry Departments are renowned for the vigor of their programs, quality of the faculty, and extent of undergraduate research. The Chemistry Department is ACS certified. Teaching load is three courses per semester, with send current curriculum vitae, transcripts, three letters of recommendation, and a description of a research program. Applicants should submit letter of interest, curriculum vitae, and three letters of recommendation to: Dr. Mary Kooser, Director-Knox HMI Program, K46, Knox College, Galesburg, IL 61401. Knox College is an Equal Opportunity/Equal Opportunity Employer. With its history of commitment to equal rights, Knox especially encourages women and minorities to apply. Application review begins in mid-December and continues until the position is filled.

Assistant Professor—Geneticist
Tenure-track position to begin fall semester 1992. Teaching duties include evolution, introductory biology, and nonmajors courses. Ph.D. required. Research, especially involving undergraduates, is encouraged, but the specific area of study will be determined by the candidate's interests. Send curriculum vitae, transcripts, reprints if available and three letters of recommendation by 31 January 1992 to: Dr. Richard Gudeman, Department of Biology, Texas A & M University, College Station, TX 77843. Texas A & M University is an Equal Opportunity/Affirmative Action employer.

Assistant Professor of Biology: Ph.D. required, tenure-track position 15 August 1992. Seeking a broadly trained individual to develop a genetics course for freshmen and an upper level course in molecular biology. Additional teaching duties determined by departmental needs. Research involving undergraduates is expected. Within four weeks after advertisement appears, please send curriculum vitae, copies of undergraduate and graduate transcripts, statement on teaching and research interests, three letters of recommendation, and a list of three references to: Dr. James Watrous, Chairman, Department of Biology, Saint Joseph's University, 5600 City Avenue, Philadelphia, PA 19131. Saint Joseph's University is an Equal Opportunity/Affirmative Action Employer.

Psychoneuroimmunologist
University of Texas Medical Branch (UTMB)
The Department of Psychiatry and Behavioral Sciences is seeking candidates for a position at the ASSISTANT PROFESSOR level. We are recruiting for an independent scientist to collaborate with an established, multidisciplinary group in studying the interactions between the nervous and immune systems. The applicant should have a Ph.D., or equivalent degree with postdoctoral experience in this area. Appointment will be given to individuals with molecular biology experience and interests in neuroendocrinology, cytokines, neuroimmunology or behavioral disorders. Initial appointments will be expected to carry on an active research program; but clinical participation, dependent upon the individual's qualifications and interests, may be permitted. Women and minority candidates are strongly encouraged. Send full curriculum vitae, research interests, three recent reprints, and the name of three references to: Dr. Norma K. Smith, Chairman, Psychoneuroimmunologist Search Committee, Department of Psychiatry and Behavioral Sciences, University of Texas, Medical Branch, 301 University Boulevard, Galveston, TX 77550. Equal Opportunity/Affirmative Action Employer, M/F, H/V. UTMB hires only individuals authorized to work in the United States.
Post Doctoral Fellowship
in Plant Molecular Biology

$36,000 - $39,000pa plus superannuation

The Goodman Fielder Wattie Fellowship at the
Division of Plant Industry
Canberra, ACT, Australia

This position is a Post Doctoral Fellowship for up to 3 years funded by Goodman Fielder Wattie. The aim of the research is to genetically modify fatty acid composition of oilseeds to improve the nutritional and functional properties of vegetable oils. A primary objective is to develop vegetable oils that combine low levels of saturates with high levels of either monounsaturated or polyunsaturated.

Your job will focus on cloning and characterising the key desaturase genes controlling the relative proportions of saturated and unsaturated fatty acids in oilseeds. Subsequent manipulation of these genes will involve genetic transformation of important oilseed species with either the cloned genes or ribozyme/antisense molecules targeted against them.

Applicants should have a PhD or equivalent qualifications with demonstrated research achievements in plant molecular biology. Further information about the research project can be obtained from Dr Allan Green by phone on 616 246 5154 or by fax on 616 246 5255. The full selection criteria and duty statement can be obtained by phoning Lynette Webb on 616 246 5295.

Please send your application, quoting Ref No. PG 91045 to: The Recruitment Office, CSIRO Division of Plant Industry, GPO Box 1600, Canberra City, ACT 2601, Australia by December 14, 1991.

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GLAXO INSTITUTE FOR MOLECULAR BIOLOGY

Research at the Glaxo Institute in Geneva is focused on discovering the molecular mechanisms of diseases of the CNS, allergies and inflammatory conditions. We have an outstanding opportunity for

MOLECULAR NEUROBIOLOGISTS
to identify and characterize novel receptors in the CNS

Two positions exist: one for a staff member and one for a postdoctoral fellow. Working in the fields of neuro-inflammation and neuro-degeneration, these scientists will isolate new receptor genes expressed in the brain and characterize them in collaboration with others using electrophysiological and morphological techniques that are already established in the Institute. The ideal candidates will have a PhD in a relevant field plus a track record proven by publications with post-doctoral experience required for the staff position.

The Institute provides a dynamic international research environment and actively encourages collaborative projects with academic groups as well as the publication and presentation of results at scientific meetings. The Glaxo Institute is part of the Glaxo group, one of the world’s most successful healthcare companies which has an outstanding reputation for the quality of both its research and products.

We offer an excellent compensation and benefits package and significant opportunities for career development. Geneva, situated in a very attractive part of Europe, has many advantages as a place to live.

If you are interested in either of these positions, please send your curriculum vitae with a list of publications and the names of three referees to: Rita Gior, Personnel Manager, Glaxo Institute for Molecular Biology, 14 chemin des Aulx, 1228 Plan-les-Ouates, Geneva, Switzerland.
ECOSYSTEM ECOLOGIST

The Department of Biology, West Virginia University, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level for an ecosystem ecologist to join the Environmental Biology Group. Development of an externally funded, productive research program is expected. Ph.D. required. Postdoctoral experience preferred. Review of applications will begin on 6 January 1992 and continue until the position is filled. Send curriculum vitae, statement of research interests, and the names and addresses of three referees to: Dr. J. Currie, Search Committee Chair, Department of Biology, West Virginia University, Morgantown, WV 26506-6057. West Virginia University is an Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGIST

UNIVERSITY OF TEXAS AT ARLINGTON

The Department of Biology invites applications for a tenure-track position at the ASSISTANT PROFESSOR level beginning September 1992. We seek a broad-ly trained microbiologist who uses modern molecular techniques to study the biology, ecology, or evolution of prokaryotes. Preferences will be given to those candidates whose research focuses on diversity and level questions. The successful candidate will be expected to participate in both the undergraduate program and in a newly established M.S. Quantitative Biology. The University of Texas at Arlington is a comprehensive university of 25,000 students located in the Dallas-Fort Worth metropolitan area. Applications, with a CV, 3 letters of reference, and publications, should be submitted by December 1991. Applicants should submit curriculum vitae, selected reprints, a statement of research and teaching goals, and names and addresses of three refer- ences to: Dr. E. D. Brodie, Jr., Chairman, Department of Biology, University of Texas at Arlington, Box 19498, The University of Texas at Arlington, Arlington, TX 76019. Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF MONTANA

DEPARTMENT OF PHYSIOLOGY

MOLECULAR BIOLOGY IN CARDIOVASCULAR SCIENCES

The Department of Physiology, Faculty of Medicine, University of Montana, invites applications for a contin- gent faculty position at the level of ASSISTANT PROFES- SOR in the Division of Cardiovascular Sciences. Candidates should have M.D. or Ph.D. degree in any of the medical sciences with 2 to 3 years of postdoctoral experience in molecular biology. Experience is expected to be gained by independent research programs in the area of cardiovascular biology and teaching both medical and graduate students. The University of Montana encour- ages applications from qualified women and men, including members of groups historically underrepresented with disabilities. The University offers a smoke-free environment save for specially designated areas. In accordance with Montana State Law, the University will give preference to Montana citizens and permanent residents. Please send your résumé, statement of research goals and names of three referees by 31 December 1991 to: Dr. N. S. Datta, Division of Cardiovascular Sciences, St. Boniface Research Cen- tre, 581 Tache Avenue, Winnipeg, Manitoba, R2H 2A6 Canada.

PHYSIOLOGISTS-MOLECULAR ASPECTS

The Department of Biological Sciences at Western Michigan University seeks applications for a tenure-track ASSISTANT PROFESSOR position for fall 1992, pending budgetary approval. Position requires a Ph.D. degree in biology, or evidence of imminent award, with expertise in cellular or molecular physiology. Excellent candidates may also be considered for joint appointments. Postdoctoral work in physiology is desir- able. Western Michigan University, a Carnegie Classifica- tion II institution, has a strong commitment to diversity, and emphasizes the importance of student recruitment. Applications comprised of a CV, a statement of teaching and research interests, a summary of three representative research publications, and three letters of recommendation should be sent to: Dr. Stephen S. Green, Chair, Search Committee, Biological Sciences Department, Western Michigan University, Kalamazoo, MI 49008. Review of applications will begin 16 December 1991 and continue until position is filled.

MOLECULAR BIOLOGIST

THE UNIVERSITY OF ROCHESTER

Research at the University of Rochester, Department of Dental Research, invites applications for the faculty position of SCIENTIST (RESEARCH ASSISTANT PROFES- SOR) in the Genes and Environments Laboratory. Research area to include the study of the molecular biology and structure/function relationship of ion transport mechanisms in exocrine glands. A Ph.D. with extensive molecular experience in eukaryotic recombin- ant DNA techniques is required. However, recent Ph.D.s with strong backgrounds will be considered. Salary commensurate with education and experience. Submit curriculum vitae and names of two references to: Dr. James E. Melvin, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642. Equal Opportunity/Affirmative Action Employer.

CARDIOVASCULAR MOLECULAR BIOLOGY

AND CELLULAR BIOLOGY

DEPARTMENT OF SURGERY

GEORGETOWN UNIVERSITY

SCHOOL OF MEDICINE

Applications are invited for a newly established posi- tion at the level of RESEARCH ASSISTANT PROFESSOR to be held jointly in the Department of Biochemistry and Molecular Biology. Research will focus on the general area of cardiovascular molecular biology. The applicant will be expected to develop an active research program that contributes to depart- mental interests in ischemia/reperfusion injuries and cyto- toxic-cytokine interactions. The position is tenure-eligible. Applicants are encouraged to apply if they have a Ph.D. with extensive postdoctoral experience in the area of cardiovascular biology. Interested candidates should submit curriculum vitae, a statement of research plans, and the names of three references to: Dr. James A. Potter, Department of Cell Biology, Georgetown University Medical Center, 3800 Reservoir Road, NW, Washington, DC 20007. Georgetown University is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR GENETICIST

The University of Rochester, Department of Dental Research, invites applications for the faculty position of SCIENTIST (RESEARCH ASSISTANT PROFES- SOR) in the Genes and Environments Laboratory. Research area to include the study of the molecular biology and structure/function relationship of ion transport mechanisms in exocrine glands. A Ph.D. with extensive molecular experience in eukaryotic recombin- ant DNA techniques is required. However, recent Ph.D.s with strong backgrounds will be considered. Salary commensurate with education and experience. Submit curriculum vitae and names of two references to: Dr. James E. Melvin, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642. Equal Opportunity/Affirmative Action Employer.

MOLLEcular BIoLOGIST

DEPARTMENT OF PHYSIOLOGY

The Department of Physiology, Faculty of Medicine, University of Manitoba, invites applications for a contin- gent faculty position at the level of ASSISTANT PROFES- SOR in the Division of Cardiovascular Sciences. Candidates should have M.D. or Ph.D. degree in any of the medical sciences with 2 to 3 years of postdoctoral experience in molecular biology. Experience is expected to be gained by independent research programs in the area of cardiovascular biology and teaching both medical and graduate students. The University of Manitoba encour- ages applications from qualified women and men, including members of groups historically underrepresented with disabilities. The University offers a smoke-free environment save for specially designated areas. In accordance with Canadian immigration law, priorities will be given to Canadian citizens and permanent residents. Please send your résumé, statement of research goals and names of three referees by 31 December 1991 to: Dr. N. S. Datta, Division of Cardiovascular Sciences, St. Boniface Research Cen- tre, 581 Tache Avenue, Winnipeg, Manitoba, R2H 2A6 Canada.

The Department of Biology, West Virginia University, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level beginning September 1992. We seek a broad-ly trained microbiologist who uses modern molecular techniques to study the biology, ecology, or evolution of prokaryotes. Preferences will be given to those candidates whose research focuses on diversity and level questions. The successful candidate will be expected to participate in both the undergraduate program and in a newly established M.S. Quantitative Biology. The University of Texas at Arlington is a comprehensive university of 25,000 students located in the Dallas-Fort Worth metropolitan area. Applications, with a CV, 3 letters of reference, and publications, should be submitted by December 1991. Applicants should submit curriculum vitae, selected reprints, a statement of research and teaching goals, and names and addresses of three refer- ences to: Dr. E. D. Brodie, Jr., Chairman, Department of Biology, University of Texas at Arlington, Box 19498, The University of Texas at Arlington, Arlington, TX 76019. Equal Opportunity/Affirmative Action Employer.

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Merck & Co., Inc. has an immediate opening for a Senior Fermentation Microbiologist/Biochemist in the Technical Operations Department of their chemical manufacturing facility in Danville, PA. Named “America’s Most Admired Company” by Fortune Magazine for the last five years, Merck & Co., Inc. is a world leader in the production of ethical pharmaceuticals for human and animal health. The successful candidate will be responsible for:

- Optimizing fermentation conditions in current and future processes
- Identifying and developing microorganisms and enzymes for new and existing bioprocesses
- Supervising and conducting experiments at the bench and in pilot scale laboratory fermenters
- Assisting in the resolution of manufacturing problems in factory areas

This position requires an MS/PhD in Microbiology or Biochemistry, or a related degree with 3-5 years of post-doctoral or related work experience. A strong background and thorough understanding of microbial physiology and biochemistry is required.

Demonstrated expertise in analytical methods and assay development using automated HPLC, HPLC, GC, and CZE equipment is highly desirable. Experience in industrial microbiology managing strain and medium development programs is preferred. Successful candidates must also possess good oral and written communication skills with demonstrated ability to work independently.

Our salaries, benefits, and growth potential are excellent. Our location offers an affordable lifestyle with many educational and recreational choices. A comprehensive relocation package is also offered for this position. For consideration, please send your resume with salary requirements and three references to: Michael P. Kearns,

MERCK & CO., INC.
Merck Manufacturing Division
P.O. Box 600, Danville, PA 17821

An Equal Opportunity Employer, M/F/V/H.

National Institutes of Health
National Institute of Dental Research

Chief
Bone Research Branch

The Intramural Research Program of the National Institute of Dental Research invites nominations and applications for the position of Laboratory Chief, Bone Research Branch.

The Chief, Bone Research Branch will be responsible for planning, directing and conducting research programs which use biological, genetic and molecular approaches to study: mineralization of cartilage, bone and teeth; the role of proteoglycans in connective tissue development and in extracellular matrix assembly; bone cell biology and bone matrix organization; nuclear magnetic resonance methods to determine 3-dimensional structure. Appointee will have latitude in the recruitment of other senior scientists, post doctoral fellows and technicians.

Applicants should have a Doctoral degree with accomplishments in the area of interest to the laboratory and with demonstrated ability for administrative leadership. Position is available immediately. This is a Civil Service position, GM-15. Physicians and Dentists may be eligible for Physician's Comparability allowance. Alternatively, appointment in the Commissioned Corps of the U.S. Public Health Service may be appropriate. U.S. citizenship is required.

Applicants must submit an SF-171 (available in any Federal personnel office), curriculum vitae, brief statement of research directions and the names of three references. Documents must be submitted no later than December 31, 1991 to:

Ms. Faye M. Harbrant
Personnel Management Specialist
National Institute of Dental Research
National Institutes of Health
Building 31, Room 2C23
9000 Rockville Pike
Bethesda, MD 20892

NIH is and Equal Opportunity Employer
RESEARCH ASSOCIATE
STEM CELL BIOLOGY

Amgen has distinguished itself as the industry leader in the development of human therapeutic products through application of biotechnology. As a result of our continuing commitment to the discovery of novel cellular growth factors, we are actively seeking a Research Associate to contribute to ongoing programs leading to the characterization of properties and mechanisms of action of known hematopoietic growth factors, as well as identification and characterization of new growth factors.

Qualified candidates must have a BS or MS in Cell Biology, Biochemistry or a related discipline and a minimum of 3 years' relevant experience in mammalian cell culture, in vitro and in vivo bioassays, and protein purification and characterization.

Amgen offers a stimulating and challenging research environment in which scientists are provided the resources and support necessary to achieve their full potential. Our compensation and benefits package reflects our commitment to attract and retain the best scientific talent available. If you have the necessary skills and would like to be a part of an organization that places a high priority on its human resources, please send a resume, in confidence, to:

AMGEN, INC.
Recruitment, Dept. #621
Amgen Center
Thousand Oaks
CA 91320-1789

C O L B Y

COLBY COLLEGE invites applications for two tenure-track positions as Assistant Professors of Biology to begin September, 1992. Women candidates will be considered for a Clare Boothe Luce endowed chair, which provides dedicated annual research funds, and salaries for undergraduate research assistants. Candidates should have a Ph.D. and a strong commitment to undergraduate education. Teaching will include courses in the candidates' discipline, a course for non-biology majors in alternate years and team teaching in the introductory course in some years. An active research program, including supervision of undergraduate research, will be expected. Familiarity with liberal arts colleges, teaching experience, and/or postdoctoral training are desirable.

Animal Physiologist

Applicants should have broad training in animal physiology. Courses taught will include comparative physiology. A strong interest in one or more of the following areas is preferred: invertebrate biology, functional anatomy, endocrinology, or evolutionary biology.

Plant Molecular Biologist

Applicants are sought who have broad training in the botanical sciences and special interest and expertise in the molecular aspects of plant biology. Colby has an emerging, well-funded interdisciplinary program in cell and molecular biology/biochemistry. Courses taught will include molecular biology.

Please submit a letter of application, statement of teaching and research interests, curriculum vitae, reprints of publications, undergraduate and graduate transcripts, and three letters of recommendation to: Professor David H. Firmage, Chair, Department of Biology, Colby College, Waterville, ME 04901. Review of applications will begin December 16, 1991 and continue until the position is filled.

Colby College is an AA/EO employer and strongly encourages applications from women and minorities.

POSITIONS OPEN

ASSISTANT PROFESSOR, PLANT PHYSIOLOGIST/MOLECULAR BIOLOGIST, tenure-track, beginning fall 1992, pending state funding. Ph.D. required. Periodically required to teach general physiology, molecular biology, botany and liberal studies biology. Expected to develop an independent research program. Salary competitive. Submit curriculum vitae, statement of teaching and research interests, and names, addresses and telephone numbers of three references to: Associate Head, Department of Biology, James Madison University, Harrisonburg, VA 22807. Position open until qualified applicant is found. Application review will begin 2 January 1992. The University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

The Section of Musculoskeletal Biology in the Department of Biomedical Engineering and Applied Therapeutics at the Cleveland Clinic Foundation is currently seeking two M.D. or Ph.D. faculty members at the ASSISTANT/ASSOCIATE PROFESSOR level working in molecular biology and cell biology, to pursue independent research. The section is currently involved in basic and clinical research related to musculoskeletal tissue formation and repair, including applications of tissue engineering for connective tissue repair. A background in bone or cartilage research is preferred, but not required. Send curriculum vitae, a statement of research interests and the name of three references to: Dr. George F. Muschler, Musculoskeletal Biology, Department of Biomedical Engineering and Applied Therapeutics (Wb-3), The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195-5254. The Cleveland Clinic is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSORS OF BIOLOGY

The Department of Biology, San Francisco State University (SFSU), invites applications for two tenure-track positions anticipated to start fall 1992. A Ph.D. is required and postdoctoral experience is desirable. We are particularly interested in candidates who are committed to achieve excellence in teaching, who have an established research record, and the potential to attract extramural funds for a research program that includes supervision of M.A. student research. The department has a faculty of 43 with active groups in ecology, botany, conservation, marine biology, microbiology, cell and molecular biology, neurobiology, and physiology. AQUATIC ECOSYSTEMS BIOLOGY. We seek an aquatic ecosystem ecologist with expertise in quantitative modeling whose responsibilities will be to (1) offer upper division and graduate courses in limnology, quantitative biology, and ecosystems ecology; (2) participate in lower division courses on a rotational basis; and (3) establish a research program in aquatic ecosystems ecology. MICROBIOLOGY/VIROLOGY. We seek a microecologist whose primary responsibilities will be to (1) offer upper division and graduate courses in microbiology, virology, and/or medical microbiology; (2) participate in lower division courses on a rotational basis; and (3) establish a research program involving M.A. students in area of specialization. Send curriculum vitae, statement of teaching interests and research goals, and three letters of reference by 15 January 1992 to: Dr. Gregory Antipa, Chair, Hiring Committee, Department of Biology, San Francisco State University, San Francisco, CA 94132. Women and minority candidates are especially urged to apply. SFSU is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS

The School of Biology at Georgia Institute of Technology invites applications for positions at ASSISTANT OR ASSOCIATE PROFESSOR. Successful applicants are expected to establish an active, funded program of research and be committed to teaching. Areas of research interest include molecular genetics/biophysics relating to signal transduction or gene regulation, and microbial biotechnology. Curriculum vitae, research plans, and three letters of reference should be submitted by 10 January 1992 to: Dr. Roger M. Wartell, Search Committee, School of Biology, Georgia Tech, Atlanta, GA 30332. Georgia Tech is an Equal Opportunity/Affirmative Action Employer.

SCIENCE, VOL. 254
positions open

university of york

department of biology

professor of ecology

The Department of Biology intends to appoint a new professor to maintain and develop the high reputation of the university in ecology. The successful candidate will have an international reputation and an active research programme, and will provide leadership to the ecological side of the Department. We are keen to develop research in evolutionary ecology, but are also interested in strengthening existing groups in population, community and physiological ecology. The new professor may wish to interact with the School of Environmental Economics and Environmental Management.

Salary within the professional range (current minimum 28,742 per annum).

Informal enquiries are welcome to: Dr. David White or Dr. Alan J. Ford (0904 452851).

Ten copies of applications, including full curriculum vitae and the names of three referees, should be sent by 17 December 1991 to: Personnel Office, University of York, Heslington, York, YO1 5DD, England, from whom further details may be obtained. Please quote reference number 4/1035.

FACULTY POSITION IN PHYSIOLOGY

TULANE UNIVERSITY

Applications are invited for a tenure-track appointment of the rank of ASSISTANT OR ASSOCIATE PROFESSOR. Candidates should hold the Ph.D. or M.D. degree, have a record of excellence in research, and be committed to academic programs in medical and graduate education. Research areas marked for expansion include, but are not limited to, cardiovascular-renal, cellular/molecular, and epithelial transport physiology. The successful applicant will be expected to have an established research program, and experience, established a nationally recognized laboratory and have the ability to successfully manage complex research activities.

Requirements include a broad background in research, and a commitment to research and teaching.

Remuneration is controlled by the University's salary policy, and salary is negotiable, consistent with research and teaching. Salary is negotiable, based on qualifications and experience. We are committed to affirmative action and equal opportunity.

The President of Tulane University wishes to appoint the successful candidate by July 1, 1992.

Informal inquiries are welcome to: Dr. Robert McCormick, Chairman, Department of Physiology, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112.

Tulane University is an Affirmative Action/Equal Opportunity Employer.

assistant/associate professor

brigham and women's hospital

and harvard medical school

The Gerontology Division of the Department of Medicine at Brigham and Women's Hospital and Harvard Medical School is seeking a scientist to establish a laboratory capable of studying basic aspects of bladder, skin, and lung physiology and in relation to aging. The laboratory would complement existing strengths in lower urinary tract physiology, pathophysiology, and biomechanics, with a focus on aging and on vivo human and animal studies. The applicant should be familiar with molecular, biochemical, electrophysiologic, and calcium imaging techniques, in addition to more traditional physiologic techniques. Candidates should provide evidence of significant accomplishment and promise, and of ability to establish a nationally recognized independent research program. Ample support will be provided for start-up and early development. Candidates should possess Ph.D., M.D., or both degrees with suitable postdoctoral experience, and should be eligible for appointment at the Assistant/Associate Professor level at Harvard Medical School.

Please send curriculum vitae and a page summary of research interests to: Dr. Neil M. Resnick, Chief of Geriatrics, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. Harvard University and Brigham and Women's Hospital are Affirmative Action Employers.

associate professor, oral biology

Research in area of bone/mineralized tissue biology. Cell, molecular or structural biology orientation. Must participate in M.D. training and develop independent program. Teaching to dental students and graduate students is required. Send resume and names and addresses of three references to: Dr. Arnold Vais, Division of Biology, Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611. Deadline for application, 30 December 1991. An Affirmative Action/Equal Opportunity Employer.

director, institute for naval oceanography

The INO Director is the executive and scientific leader, reporting to the UCAR President. The Director's primary responsibility is to provide scientific direction and productivity of INO research programs, including the formation of plans, budgets and priorities, in keeping with established guidelines. He or she oversees all staff appointments, establishes a sound management framework and such procedures and advisory mechanisms as deemed appropriate.

The INO Director establishes and maintains a working system of communication, consultation and coordination with relevant agencies on INO matters. He or she also maintains working relations with the university research community and research-sponsoring agencies and is well informed on national ocean science policy affairs. Keeping abreast of research developments in ocean science and related disciplines and contributing to national and international scientific committees, professional societies, and the INO's scientific research program are also key responsibilities of the position. The INO Director supervises employees in ways consistent with UCAR policies and with its equal employment opportunity and affirmative action programs. The INO Director will also attend meetings of the UCAR Board of Trustees and sit on the UCAR Directors' Committee.

Requirements include a doctoral degree in oceanic, atmospheric or a related science, and international recognition as a scientific leader in areas of INO interest.

Remuneration is controlled by the University's salary policy, and salary is negotiable, consistent with research and teaching. Salary is negotiable, based on qualifications and experience. We are committed to affirmative action and equal opportunity.

The President of UCAR wishes to appoint the INO Director in the spring/summer of 1992. Nominations should be made as soon as possible and the applications should be received by January 31, 1992. Applications should include a letter of interest, curriculum vitae and list of publications. Please forward to: J.R. Apel, INO Director Search Committee, c/o W. S. Shiver, University Corporation for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307-3000.

navier-stokes chair in numerical modeling

This position will provide an opportunity for an experienced ocean, atmospheric, or acoustic modeler to conduct basic and/or applied research at the INO, where the long-range goal is to develop and demonstrate mesoscale eddy-resolving ocean prediction systems on a global basis. The INO program is focused on developing and demonstrating an end-to-end system for ocean predictions and acoustic implications.

The Chair will have access to some of the largest Supercomputing resources available. These resources include a CRAY Y-MP with 8 processors and 128MW memory; numerous parallel computing systems; and extensive external communications networks with links to other supercomputer installations. The researcher will be provided access to the Maury Oceanographic Library, one of the finest libraries of its kind in the world.

Remuneration will be in accordance with UCAR compensation policy for senior-level scientists and will be highly competitive with analogous university appointments. An affiliation with a local university is a possibility. The comprehensive UCAR benefits package, including paid vacation and holidays, life and health insurance, and contributions to a retirement fund, will be included with the appointment. A liberal travel allowance will be provided for attendance at scientific meetings and conferences. The appointment will be for up to three years.

Qualified individuals are encouraged to apply by sending a resume, along with a statement of their research interests and experience to: Dr. Richard Antol, President, University Corporation for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307-3000.

UCAR has a strong commitment to the principle of diversity in all areas. In that spirit, we are interested in receiving applications from a broad spectrum of people, including women, minorities, and disabled individuals.

University Corporation for Atmospheric Research

22 NOVEMBER 1991
POSITIONS OPEN

FACULTY POSITIONS

UMDNJ—NEW JERSEY MEDICAL SCHOOL

The Division of Injury Sciences, Department of Anatomy, Cell Biology and Injury Sciences of the UMDNJ—New Jersey Medical School seeks distinguished individuals for faculty appointments at the ASSOCIATE/ASSOCIATE OR FULL PROFESSOR level. Carrying out research that demonstrates significant contributions to the understanding of the causes and mechanisms of injury, candidates must have a Ph.D., M.D., D.V.M., or Ph.D.-level equivalent degree, and postdoctoral experience in relevant fields. Candidates must have an established record of research and teaching. Candidates should send their curriculum vitae and the names of three references to: Dr. John H. Siegel, Chairman, Anatomy, Cell Biology and Injury Sciences, 185 South Orange Avenue, New Brunswick, New Jersey 08903. Telephone: 201-448-4414 or FAX: 201-540-7489. The UMDNJ is an Affirmative Action/Equal Employment Opportunity Employer, M/F/H/V, and a member of the University Health System of New Jersey.

STRUCTURAL BIOLOGY

MOLECULAR BIOPHYSICS

WASHINGTON UNIVERSITY

SCHOOL OF MEDICINE

Applications are invited for two tenure-track FACUL-
TY POSITIONS in the Department of Biochemistry and Molecular Biophysics at the level of ASSOCIATE
PROFESSOR, although candidates at the ASSOCIA-
TE OR FULL PROFESSOR level will also be consid-
ered for full-time positions. Applicants must have
full tenure-track positions at an academic institution and a proven record of excellence in both research and teaching. The Department of Biochemistry and Molecular Biophysics at Washington University has recently added faculty in the area of DNA replication and transcription. Interested candidates should send their curriculum vitae, a summary of research interests and future research plans, and a list of three references to: Dr. Gary K. Ackers, Department of Biochemistry and Molecular Biophysics, 660 South Euclid Avenue, Box 8231, St. Louis, MO 63110. Washington University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

UNIVERSITY OF MIAMI

SCHOOL OF MEDICINE

The Department of Molecular and Cellular Pharmacology invites applications from outstanding scientists to join our department. This tenure-track position can be at the ASSOCIATE, ASSOCIATE OR FULL PROFESSOR level depending on experience and achievement. Our faculty include molecular biologists, electrophysiologists, and biochemists investigating ion channels, receptors, and second messenger systems in nerve and muscle. Outstanding candidates in these areas and other relevant fields are encouraged to apply. The successful applicant is expected to have achieved recognition in their field and/or to have demonstrated their ability to establish a strong, independent research program. Generous space and start-up funds are available with limited teaching responsibilities. In order to make the appointment as early as June 1992, we would like to receive applications by 15 December 1991. Interested candidates should submit (1) curriculum vitae, a statement of research interests and future directions, and names and addresses of three references to: Dr. David J. Adams, Chairman, Search Committee Department of Molecular and Cellular Pharmacology University of Miami School of Medicine Miami, FL 33101

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

POSITIONS OPEN

ASSISTANT PROFESSOR

To study mechanisms of neuropoetalemodulin in-
teractions and antibody catalysis. Responsibilities include supervision and collaborative interaction with other fel-
los. Strong background in biochemistry is desirable. Send curriculum vitae with names and addresses of three references to: Dr. Sudhir Paul, Department of Anesthesiology, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68192-4455. Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

GRACEY B. KERR CHAIR

IN BIOCHEMISTRY

The Department of Chemistry and Biochemistry at the University of Oklahoma invites applications and nominations for the WILLIAM B. KERR CHAIR in BIOCHEMISTRY. The successful candidate will hold an M.D. or Ph.D. degree, or both, and will have an outstanding record of accomplishment in the areas of administration, teaching, and research. The chairperson will coordinate and be responsible for courses taught in the chairperson's name, and for the chairperson's grants. The chairperson will be expected to lead research programs in pharmacol-
ogy and/or toxicology and to encourage interdisciplinary research with other faculty members or centers.

Interested candidates should submit a curriculum vitae and the names and addresses of three references to: Dr. James D. Stechschulte, M.D. Chairman of the Search Committee c/o Department of Medicine The University of Oklahoma Medical Center 3901 N. Rainbow Boulevard Kansas City, KS 66103 Applications will be accepted until the position is filled. The University of Oklahoma is an Affirmative Action/Equal Employment Opportunity Employer.

ENDOWED CHAIR IN ANIMAL REPRODUCTION

Nominations and applications are invited for the Mar-
in Dickey and David George Jones tenured Chair in Animal Reproduction at The Pennsylvania State University College of Veterinary Medicine. This professorship is intended to enhance research and educational activities in animal reproduction by the Section of Reproductive Studies, Department of Clinical Studies, New Bolton Center. The successful applicant is expected to have an academic background and experience for teaching, research, and administration. The academic appointment is full-time.

The incumbent will be expected to expand the existing research of the Section with innovative programs in areas relevant to reproduction biology of animals. An interest in the reproductive biology of wildlife will be considered.

Candidates should have an advanced, preferably Ph.D., degree and documented research productivity. A degree in veterinary medicine is highly desirable.

Interested individuals should send curriculum vitae, list of publications, and a summary of research interests to: Dr. Charles E. Benson, Chairman, Department of Clinical Studies, New Bolton Center, School of Veter-
inary Medicine, University of Pennsylvania, 382 West Street Road, Kennett Square, PA 19348-1692. The University of Pennsylvania is an Affirmative Action/Equal Employment Opportunity Employer.

OFFICE CHIEF

CLINICAL

ENVIRONMENTAL MICROBIOLOGY

PUBLIC HEALTH LABORATORIES

The State Public Health Laboratories in Seattle, Wash-
ington are searching for an Office Chief for their Micro-
biology Laboratories. This position would be responsible for the supervision and administration of clinical and reference microbiology, virology—serology and environ-
mental microbiology. Please telephone: 206-231-2815 for an employment package.

ENTOMOLOGY CURATORIAL POSITION

Responsibility consists of collection-oriented research on systematics of a group of insects or arachnids, active participation in management of a major collection, development of external research and collections, and participation in public program activities. Doctorate required. Special consideration given to entomologists with experience in entomological collections, and with the following criteria: (1) Ph.D. or equivalent in an area of expertise, (2) five years of relevant professional experience, (3) publication of a significant body of research, and (4) letters of recommendation from at least three profes-
sionals acquainted with the applicant's accomplishments. Submit to: Dr. Francois Vuilleumier, Chairman, Search Committee Department of Entomology American Museum of Natural History Central Park West at 79th Street New York, NY 10024

An Equal Opportunity Employer.
POSTDOCTORAL SCIENTIST FOR RESEARCH ON LIPOSOMAL DRUG DELIVERY SYSTEMS

Sandoz Pharma Ltd. has an immediate opportunity for a postdoctoral scientist with a background in liposome research to join its Drug Delivery Systems department.

The appointment is for a period of two years.

The successful applicant will work within a multidisciplinary team studying liposomal carrier systems for water soluble compounds, including peptides. His/her work will involve formulation design and manufacture, as well as the analytical and biological characterization of these systems.

Applicants should be recently qualified PhDs with appropriate experience in liposome formulation and characterization and a good overall grasp of drug delivery concepts.

Applications, including a CV and copies of two testimonials, should be sent to:

Mr. R. Zbinden
Personnel Department, Ref. 1492
Sandoz Pharma Ltd.
Ch-4002 Basle
Switzerland

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U.S. DEPARTMENT OF ENERGY

POSTGRADUATE RESEARCH PROGRAMS

Global Change Engineering
Human Genome Physical Sciences
Fossil Energy Environmental Sciences
Fusion Energy Life Sciences
Toxicology Computer Sciences
Risk Analysis Human Factors

- Research at national laboratories
- Stipends $22,000 - $48,000 depending on degree, program, research area
- Recent graduate degree
- U.S. citizens or PRAs eligible

Information and applications (please give research area/s):

Postgraduate Research Programs
Science/Engineering Education Division
Oak Ridge Associated Universities
P.O. Box 117
Oak Ridge, TN 37831-0117
(615) 576-3190

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SCIENTIST/PROJECT LEADER

Baxter Diagnostics Inc., a worldwide leader in supplying innovative diagnostic reagents, currently has opportunities due to an expansion of our hemostasis R&D group.

Successful candidates will have a Ph.D. in biochemistry or relevant equivalent experience. Previous industrial R&D or postdoctoral studies involving coagulation, fibrinolysis, immunochemistry and platelet/monocyte biochemistry is a plus. Experience in protein purification, phospholipid biochemistry or immunodiagnostics is desirable. Preference will be given to individuals with demonstrated ability to effectively supervise and provide leadership for successful product development projects.

We offer an excellent scientific environment supported by a highly competitive salary and complete benefits package. Please send your resume in confidence to: Baxter Diagnostics Inc., Hemostasis R&D, Ad# 101, MS 367, P.O. Box 520672, Miami, FL 33152-0672, Equal Opportunity Employer. We Conduct Pre-Employment Drug Screening.

Baxter Diagnostics Inc.
Baxter
The National Institutes of Health (NIH) and the Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA) are in the process of establishing a new consultant file of peer reviewers. These reviewers will be selected from a national pool of scientists who are engaged in basic or applied research. Data from qualified respondents will be entered into a new computerized NIH/ADAMHA database. This unique database will be used as one source from which candidates for membership on NIH/ADAMHA committees and for other advisory activities are drawn. Consultant scientists act in an advisory capacity to assist NIH/ADAMHA in the evaluation of research projects.

All qualified scientists are requested to participate.

Qualified women and minority scientists are encouraged to apply.

All scientists who are interested in participating should respond by letter requesting a copy of the NIH/ADAMHA Consultant File Information Form. Since the new file will be established based solely on positive responses, your response is needed even if you are already a consultant or are a member of a Reviewer’s Reserve. This file is independent of other consultant files. Your request should be sent to:

NIH/ADAMHA Consultant File
7101 Wisconsin Avenue,
Suite 1125, Box 30
Bethesda, MD 20814
PROFESSOR OF CELLULAR AND MOLECULAR PHYSIOLOGY/ DEPT. OF SURGERY

Harvard Medical School/The Children's Hospital

Harvard Medical School and The Children's Hospital are searching for a Professor of Cellular and Molecular Physiology in the Department of Surgery. The candidate should have a primary interest in the broad areas of endothelial cell biology, metastasis, and the role of the vascular system in the mechanisms of site-specific metastasis. The candidate should have experience in and would continue to supervise the research of graduate students and postdoctoral fellows in their own laboratory, and at The Children's Hospital, have the opportunity to work with both medical students and surgical residents participating in a broad collaborative program on angiogenesis. The candidate will participate in the teaching of Human Physiology to first-year medical students in the New Pathway curriculum.

Applicants are invited to submit a CV to Daniel A. Goodenough, Ph.D., Takeda Professor of Anatomy & Cellular Biology, Chairperson, Search Committee, Harvard Medical School, 25 Shattuck Street, Boston, MA 02115. Harvard Medical School and The Children's Hospital are Affirmative Action/Equal Opportunity Employers. Women and minorities are encouraged to apply.

POSITIONS OPEN

BIOLOGY COORDINATOR. The Zoology Department at Oklahoma State University anticipates hiring a tenure-track FACULTY MEMBER, to provide creative leadership for our general education course in biology. The successful candidate will teach one section each semester, coordinate the laboratory and honors sections, and generate external funding for innovative instructional developments. Ph.D. and teaching experience required. Contact: Dr. Jerry Wilhim, Department of Zoology, Oklahoma State University, Stillwater, OK 74078; telephone: 405-744-5555 for further information. To apply submit a letter describing teaching philosophy and professional interests, resume, and transcripts. Request three individuals to send letters of reference by 1 February 1992.

RESEARCH FACULTY POSITION
TASTE/OLFACTION

Individuals who utilize molecular neurobiological/neurophysiological techniques in the study of taste or olfaction are invited to apply to the Pennington Biomedical Research Center (PBRC). Generous facilities to house and equip the research program are available along with opportunities for research collaboration with faculty within the center and at Louisiana State University (LSU). Applicants should submit a vita, statement of research interests and names and addresses of three references by 30 December 1991, to: TASTE/Olfaction Scientist, Human Resource Management, Pennington Biomedical Research Center, P.O. Box 4124, Baton Rouge, LA 70808-4124. LSU/PBRC is an Equal Employment Opportunity/Affirmative Action Employer.

FACULTY POSITIONS, SEXUALLY TRANSMITTED DISEASES (STDs). The Department of Microbiology, The University of Texas Health Science Center at San Antonio (UTHSCSA), seeks to hire tenure-track faculty members (junior-to-senior appointments) with interests in the molecular pathogenesis and immunology of STDs. Agents of particular interest are protozoa, viruses, and chlamydia. Although individuals with strong records of research achievement in other STDs are encouraged to apply, successful candidates are expected to develop innovative research programs and to participate in departmental teaching activities. This is an exceptional opportunity to join our expanding department committed to excellence in research and teaching and located in a desirable academic/geographic setting.

Applicants should mail curriculum vitae, a statement of current and future research goals, and arrange to send three letters of reference by 31 January 1992 to: Dr. Joel B. Baseman, Professor and Chairman, Department of Microbiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7758. UTHSCSA is an Equal Opportunity, Affirmative Action Employer.

FACULTY POSITION

Department Ob/Gyn, Medical College of Virginia (MCV), Virginia Commonwealth University (VCU), invites applications for a reproductive biologist to participate in developing clinical and basic science applications utilizing micromanipulation techniques for pre-embryo genetic analysis, transgenic animal modeling and clinical reproductive technologies. The search favors individuals with research experience in oocyte/pre-embryo micromanipulation and recombinant DNA technologies. Opportunity exists for a joint appointment in a basic science department. Rank and salary are negotiable; start-up funds are available. Submit curriculum vitae and addresses of three references by 31 January 1992 to: Leo J. Dunn, M.D., Ob/Gyn, MCV, Box 34, Richmond, VA 23298. MCV/VCU is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION available, beginning 1 January 1992, in an NIH-funded multidisciplinary Training Program in Parasitology/Vector Biology, to conduct research on the genetic basis of vector competence of Anopheles albopictus populations to dengue virus. Candidates must be U.S. citizens or permanent residents. Women and minorities are encouraged to apply. Send resume and three references to Dr. K.S. Rai, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556. An Equal Opportunity/Affirmative Action Employer.
positions open

tenure-track faculty position biotechnology and biochemical engineering program

thayer school of engineering dartmouth college

the thayer school of engineering, dartmouth college, is committed to building an outstanding program in biotechnology and biochemical engineering. the interdisciplinary character of the engineering school provides unusual support for activities in the biotechnology area, which is pursued by collaboration with the medical school and the departments of biology and chemistry.

a candidate is sought to join a group of three faculty with primary interests in biochemical engineering. we seek an individual with interests and skills that foster intellectual pioneering in both research and teaching. research interests are desired that integrate engineering and life science perspectives in a way that allows engineers to play a central role in research-driven innovation and/or elucidation of widely applicable fundamentals. our group has a common interest in biocatalytic systems, emphasizing the production/ transformation side of biochemical engineering. candidates are expected to have expertise that supports this theme, with an intracellular perspective particularly desired. application areas that relate to biological or environmental engineering are of special interest at thayer and these areas. both junior and senior candidates are encouraged to apply.

a cover letter, curriculum vitae, and the names of three references should be sent to: dr. lee lynd, biotechnology and biochemical engineering program, thayer school of engineering, dartmouth college, hanover, nh 03755, telephone 603-646-2231. review of applications will begin in january 1992; interested candidates planning to attend the fall meeting of the aiche are encouraged to contact us in time to arrange a meeting. dartmouth college is an equal opportunity/ affirmative action employer and encourages applications from women and members of minority groups.

the department of cell biology and division of physiology at duke university medical center is seeking faculty with an active interest in integrative biology and physiology. no particular system has been selected, rather we are seeking someone with a demonstrated ability to answer important questions involving the biophysical and molecular bases of physiological functions. such advances may have been made using either cell/molecular biology techniques or the more classical physiological approaches. all levels of appointment will be considered, although there is a preference for junior appointments. applications should include curriculum vitae, statement of research interests, and three letters of reference to: dr. michael p. sheets, chairman, department of cell biology, duke university medical center, box 3770, durham, nc 27710.

duke university is an equal opportunity/ affirmative action employer.

postdoctoral position

a vacancy exists to join an active and international research team in neurobiology. the major goal of the laboratory is to achieve an understanding of exocytosis and membrane recycling in nerve terminals at the molecular level. candidates should have a broad background in protein biochemistry, preferably techniques related to protein structure (hplc, microsequencing) or membrane biology. however, applications from expert molecular biologists will also be considered.

applications should include curriculum vitae, a brief summary of the candidate's expertise with special reference to methodological skills, and the name of two professional references, and should be sent to: reinhardt jahn, ph.d., boyer center for molecular medicine, duke university medical school, p.o. box 9812, new haven, ct 06536-0812. an equal opportunity employer.

postdoctoral position available immediately to study the structure and function of voltage-gated sodium channels. this project involves application of molecular biological, biochemical, and biophysical methods to the analysis of mutant and chimeric channels. candidates with relevant experience and interest should submit curriculum vitae and letters of reference to: dr. r. barchi, institute of neurological sciences, university of pennsylvania, philadelphia, pa 19104-6074. an equal opportunity employer.

norwalk hospital/ yale university

research immunologist, ph.d.

the department of pathology at norwalk hospital, an affiliate of the yale university school of medicine, is seeking an immunologist for the newly created position of director of research. candidates must have a ph.d. degree in immunology with at least three years of experience in clinically oriented research in immunology or immunodiagnosis. experience in molecular techniques is desired but not mandatory. the successful candidate must furnish evidence of research productivity. the position carries no service duties. the incumbent will organize and conduct a research program in immunology with major emphasis on teaching fellows in immunopathology under the direction of the program director. norwalk hospital offers a professional environment, competitive salary, and an excellent benefits package. we invite you to submit a resume to: g. reynoso, m.d., chairman, pathology department or manager of employment, human resources department, norwalk hospital, maple street, norwalk, ct 06856. we are an equal opportunity employer m/f/h.

norwalk hospital

the center for advanced medicine

professor of pathophysiology,

medical faculty, university of basel

4056 basel, switzerland

applications are invited for the position of professor of pathophysiology which will be vacant as of may 1, 1992. the successful candidate will be responsible for instruction and exams for medical and dental students. the professor will also be

head of the research department of the kantonsspital, basel.

this position entails leadership of the administration and scientific coordination of the research center, which comprises various medical, clinical and basic research groups, including a group led by the successful candidate.

candidates with outstanding research credentials should also be experienced in teaching, administration and academic leadership. a requirement is that candidates should be able to teach in german.

candidates with a medical degree and appropriate qualifications should send particulars including copies of three recent publications before december 1, 1991 to the

dean's office, medical faculty of the university of basel, hebelstr. 25, ch-4031 basel, switzerland.

for further information candidates may telephone or write to the president of the search committee: prof. ch. moroni (tel. 061/267 32 66), or the medical director of the kantonsspital, prof. h.-p. rohr (tel. 061/265 25 25).

the university of basel, medical school is an equal opportunity employer and welcomes applications from women and minorities.
POSTDOCTORAL POSITION

UNIVERSITY OF IOWA

DEPARTMENT OF IMMUNOLOGY

ST. THOMAS' CAMPUS

(LONDON, UNITED KINGDOM)

POSTDOCTORAL IMMUNOLOGIST

Applications are invited for a full-time scientific appointment within the Ocular Immunology Research Group of the Rayne Institute at St. Thomas'. The post is funded by the Guide Dogs for the Blind Association and is available from 1992 for 3 years in the first instance. The research area concerns the immunopathology of autoimmune retinal disease and the goal is seeking to elucidate the role of various cell types in the pathological process. We are seeking a candidate with aiko background in molecular and cellular immunology. Starting salary £21,115 to £22,908 (approximately, including London Weighting) according to experience, with annual increments on the nonclinical Grade II scales. Informal enquiries to Dr. Eevas at St. Thomas' from whom a job description may be obtained (071-928 9929 Ext. 3164/3992). Applications to the Secretary, Department of Immunology, UMDS, St. Thomas' Hospital, London SE1 7EH (071-928 9929 Ext. 3136; FAX: 071-924 1635). Include curriculum vitae and names of three academic referees.

POSTDOCTORAL POSITIONS AVAILABLE

The University of Iowa is seeking candidates for the following positions:

1. Postdoctoral Research Associate in Immunology - salary range $22,000 to $28,000 depending on experience.
2. Postdoctoral Research Associate in Molecular Biology - salary range $22,000 to $28,000 depending on experience.
3. Postdoctoral Research Associate in Cell Biology - salary range $22,000 to $28,000 depending on experience.

Applications accepted until the positions are filled. Send curriculum vitae, contact information for three references, and a brief statement of research experience to: Dr. Richard D. Flaitz, Department of Immunology, University of Iowa, Iowa City, IA 52242.

POSTDOCTORAL POSITION

Vanderbilt University

Division of Dermatology

Position available for a postdoctoral fellow in the laboratory of Dr. Robert M. Miller, Section on Molecular and Cellular Immunology, Department of Immunology and Radiology, Vanderbilt University Medical Center, Nashville, Tennessee. The position will be available September 1, 1992. The position is funded by the National Institutes of Health and will provide a starting salary of $28,000 plus benefits. Send curriculum vitae, a brief statement of research experience, three letters of recommendation, and a photograph to: Dr. Robert M. Miller, Section on Molecular and Cellular Immunology, Department of Immunology and Radiology, Vanderbilt University Medical Center, Nashville, Tennessee 37232.

POSTDOCTORAL POSITION

Boston College

Department of Biology

Position available for a postdoctoral fellow to work on a project concerning the regulation of DNA replication in mammalian cells. Experience in molecular biology and genetics is required. Send curriculum vitae and three letters of recommendation to: Dr. John D. Boardman, Department of Biology, Boston College, Chestnut Hill, MA 02167.

POSTDOCTORAL POSITION

University of California, San Diego

Division of Immunology

Position available for a postdoctoral fellow to work on a project concerning the regulation of DNA replication in mammalian cells. Experience in molecular biology and genetics is required. Send curriculum vitae and three letters of recommendation to: Dr. John D. Boardman, Department of Biology, Boston College, Chestnut Hill, MA 02167.

POSTDOCTORAL POSITION

University of Michigan

Department of Pharmacology

Position available for a postdoctoral fellow to work on a project concerning the regulation of DNA replication in mammalian cells. Experience in molecular biology and genetics is required. Send curriculum vitae and three letters of recommendation to: Dr. John D. Boardman, Department of Biology, Boston College, Chestnut Hill, MA 02167.
MOLECULAR MEDICINE TRAINING PROGRAM

The National Institute of Diabetes and Digestive and Kidney Diseases at the National Institutes of Health has established a novel program for training physicians in advanced basic molecular biology and genetics and their applications to human disease. The three year program combines basic laboratory research in molecular biology and genetics with the option of clinical training in molecular biology and genetics with the option of clinical training in several clinical subspecialties. Research training takes place in the laboratories of the NIDDK intramural program. These laboratories are part of the main NIH intramural campus located in Bethesda, Maryland, a 20 minute ride from Washington, D.C. The intramural program of the NIH offers an outstanding and world-renown research environment.

Clinical training leading to board certification is available in the following participating subspecialties: Endocrinology, Genetics, Gastroenterology, and Hematology. First year salary is $38,500; second year is $40,500; third year is $42,500.

For additional information, please send your curriculum vitae and a list of three references to:

Allen M. Spiegel, M.D., Director,
Division of Intramural Research
PHN: 301-496-4128
FAX: 301-496-9943

National Institute of Diabetes and Digestive and Kidney Diseases

National Institutes of Health, Building 10, Room 9N222, 9000 Rockville Pike, Bethesda, MD 20892

NIH is an Equal Opportunity Employer

RESEARCH OPPORTUNITIES AT THE W. ALTON JONES CELL SCIENCE CENTER

THE W. ALTON JONES CELL SCIENCE CENTER is located in the heart of the Adirondack State Park, Lake Placid, NY. The Center is equipped with state-of-the-art equipment (amino acid analyzer, amino acid and DNA sequencers, peptide and DNA synthesizers and various other analytical instruments) for studies in cell and developmental biology. Salaries and benefits are competitive. Send curriculum vitae, names and telephone numbers of three references and summary of research interests to: Ms. Andrea Terwilliger, W.A.J.C.S.C., 10 Old Barn Rd., Lake Placid, NY 12946. The Cell Science Center is an equal opportunity/Affirmative Action Employer.

SENIOR SCIENTIST. Applicants should have completed postdoctoral training and be capable of establishing an independent research program supported by extramural funding, although sufficient seed money will be available for establishing a laboratory. Investigators with interest in the general theme of molecular control of cell growth and differentiation are encouraged to apply.

GRADUATE PROGRAM, POSTDOCTORAL AND VISITING SCIENTISTS. The Center participates in a graduate program with Clarkson University, Potsdam, NY and the University of Vermont, Burlington, VT. Course work is taken at the University and research work is conducted at the Center. This program is open to excellent candidates who have completed their undergraduate degree. STUDENTS, POSTDOCS AND VISITING SCIENTISTS participate in projects within laboratories of senior scientists including:

GORDON H. SATO, Director: Cellular endocrinology physiology. Manzanar Project. Aquaculture system for food production in coastal-desert areas.

JOHN W. CRABB: Protein chemistry, molecular biology of viral cycle proteins.

JUN HAYASHI: Developmental immunobiology of thymocytes and thymic epithelial cells.

SUSAN JAKEN: Regulation and activation of protein kinase C isozymes.

W.L. McKeehan: Growth factors/receptors in blood vessels, liver and prostate.

GINETTE SERRERO: Molecular biology and hormonal control of adipose cell differentiation.

JAMES L. STEVENS: Cellular and biochemical toxicology and carcinogenesis.

DANIEL J. SUSSMAN: Regulation of gene expression in mammmary tumorigenesis and mouse development.
Pharmagenesis, a young, dynamic, and growing drug discovery company, seeks a Director of Drug Development as well as motivated individuals to join expanding research programs in molecular biology, bone metabolism, and immunology.

Drug Development: Senior scientist / director with ten years experience in drug development. Experience in regulatory affairs is desirable.

Molecular Biology: MS or BS scientists with experience in molecular biology as well as mammalian cell culture. Join projects to design viral gene delivery vehicles. Experience with in vivo assay systems or virology is desirable.

Bone Metabolism: Ph.D. scientists with experience in bone biology, lead a drug discovery team. MS or BS scientists, identify active substances from natural products and elucidate their mechanisms of action.

Immunology: MS or BS scientists with experience with mammalian cell culture, especially with human lymphocytes, identify and characterize putative drugs that act on the immune system.

Please send full C.V. to:
Human Resources, Pharmagenesis
3183 Porter Drive, Palo Alto, CA 94304

FACULTY POSITIONS IN BIOCHEMISTRY
St. Jude Children’s Research Hospital

St. Jude Children’s Research Hospital, a private research institute, is engaged in a major expansion of its facilities and scientific activities. A new research building opened in August, 1991 which provides 240,000 square feet of new laboratory space to house the institute’s basic science programs. As part of this expansion, new faculty positions are now available in the Department of Biochemistry. Although preference will be given to applicants who have recently completed postdoctoral training and are seeking positions at the level of Assistant Member, more senior investigators with appropriate research interests and qualifications will be considered for positions of higher faculty rank. Candidates with programs focusing on the regulation of cell growth, differentiation and transformation, the biochemistry and molecular biology of signal transduction, and mechanisms of gene regulation are particularly encouraged to apply. Opportunities exist for collaborative interactions with ongoing basic research programs in Virology and Molecular Biology, Immunology, Tumor Cell Biology, and Pharmacology, as well as with clinical investigators in Hematology/Oncology and Infectious Diseases. In addition to new facilities and excellent start-up funds, salaries are nationally competitive and include a generous benefits package. A strong institutional commitment to its faculty ensures stability in program development and continuity of research activities.

Applicants should submit a curriculum vitae, a letter summarizing their research accomplishments and goals, and the names of three references to:
Dr. James N. Ihle
Chairman, Department of Biochemistry
St. Jude Children’s Research Hospital
332 N. Lauderdale
Memphis, TN 38105 USA

POSTDOCTORAL FELLOWSHIPS MICROBIAL EVOLUTION

MOLECULAR EVOLUTION
MICROBIAL GENETICS
PROTEIN STRUCTURE- FUNCTION
POPULATION BIOLOGY

The Center for Microbial Ecology at Michigan State University is seeking postdoctoral scientists with experience in the study of molecular evolution, microbial genetics, protein structure-function relationships, or population biology to conduct research as a part of an multidisciplinary team focused on the evolution of catabolic pathways for the metabolism of environmental pollutants and the distribution and diversity of these pathways among microorganisms. The Microbial Evolution Project is a collaborative effort with Nagaoa University and The RIKEN Institute in Japan. Of the eight postdoctoral scientists employed to work on this project, half will work in Japan. Those in Japan will be paid a cost-of-living adjustment, travel expenses and a housing allowance. These positions are available immediately and periodically throughout the five year project.

To apply, send a letter describing your scientific interests, a curriculum vitae and names of three references to: Dr. Larry Forney, Center for Microbial Ecology, Plant and Soil Sciences Building, Michigan State University, East Lansing, Michigan, 48824-1325.

MSU is an equal opportunity employer.

Call toll free for more information and for an application:
(800) 852-9074 or (314) 362-3365

POSTDOCTORAL FELLOWSHIPS PHARMAGENESIS

MOLECULAR EVOLUTION
MICROBIAL GENETICS
PROTEIN STRUCTURE- FUNCTION
POPULATION BIOLOGY

Pharmagenesis, a young, dynamic, and growing drug discovery company, seeks a Director of Drug Development as well as motivated individuals to join expanding research programs in molecular biology, bone metabolism, and immunology.

Drug Development: Senior scientist / director with ten years experience in drug development. Experience in regulatory affairs is desirable.

Molecular Biology: MS or BS scientists with experience in molecular biology as well as mammalian cell culture. Join projects to design viral gene delivery vehicles. Experience with in vivo assay systems or virology is desirable.

Bone Metabolism: Ph.D. scientists with experience in bone biology, lead a drug discovery team. MS or BS scientists, identify active substances from natural products and elucidate their mechanisms of action.

Immunology: MS or BS scientists with experience with mammalian cell culture, especially with human lymphocytes, identify and characterize putative drugs that act on the immune system.

Please send full C.V. to:
Human Resources, Pharmagenesis
3183 Porter Drive, Palo Alto, CA 94304
MOLECULAR BIOLOGIST

A position is available in the Virus & Cell Biology Department at the Merck Sharp & Dohme Research Laboratories in West Point, Pennsylvania. The successful candidate will join a team of investigators involved in the characterization of molecular targets for the development of antiviral agents.

This position requires a B.S./M.S. or the equivalent in molecular biology or a related discipline. Additional requirements include 3-5 years pertinent research experience in molecular biology, recombinant DNA cloning, sequencing and PCR and RNA isolation and analysis techniques. A background in virology is preferred.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia.

Please send curriculum vitae with references, transcripts and cover letter to: Personnel Manager, Ad #D-43, Research Personnel, WP42-2, Merck Sharp & Dohme Research Laboratories, West Point, PA 19486.

EEO/AA/VH/Employer

Merck & Co., Inc.

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SCIENTIFIC ASSOCIATES

PROTEIN DATA BANK

Brookhaven National Laboratory presently has two openings within the Protein Data Bank (PDB) project for scientific associates to carry out data analysis and verification. The PDB, operated within Brookhaven’s Chemistry Department, is the internationally recognized computer database for structures of biological macromolecules.

Requirements include a Ph.D. or equivalent experience, a strong background in crystallography and good writing and communication skills. The chosen candidates will be responsible for the creation of new structure entities from data deposited with the PDB. High performance graphics workstations will be utilized to accomplish essential data analysis and verification functions. The work will involve extensive interaction with data depositors.

Brookhaven offers a stimulating work environment and excellent benefits. If you would like to be considered for one of these positions, please forward your curriculum vitae, along with the names of three references and referring to position LFO838, by December 15, 1991 to: Lisa Ficara, Brookhaven National Laboratory, Personnel Division, Bldg. 185, Upton, NY 11973. Equal Opportunity Employer M/F/H/V.

BROOKHAVEN NATIONAL LABORATORY

ASSOCIATED UNIVERSITIES, INC.

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Seeing Beyond the Boundaries

At Berlex, we focus our quest on the science of oncology and cardiovascular disease. We understand that there is no clear-cut path to tomorrow’s breakthroughs. Instead, it’s the anticipation and the challenge of being on the brink of discovery that intensifies our vision. That’s why the individuals we seek must be true visionaries. People who see the forest, the trees, and beyond. People who are truly excited by challenge and have the initiative, tenacity and inner drive to match.

RESEARCH SCIENTIST

Join our multidisciplinary drug discovery team involved in cardiovascular research. Interacting with cell biologists and medicinal chemists, you’ll be responsible for the purification and characterization of native and recombinant proteins, enzymes and receptors of potential pharmaceutical interest. Your background in protein chemistry should include knowledge of standard chromatographic, spectroscopic and analytical methods; experience with glycoproteins is a definite advantage.

To reward your commitment, we offer a growing company environment with a highly attractive salary and a full complement of benefits. For consideration, please send your resume to: Berlex, Human Resources, 213 E. Grand Avenue, South San Francisco, CA 94080. We are an equal opportunity employer.

BERLEX

THE BEST IS YET TO COME
POSITIONS OPEN

NEUROIMMUNOLOGY. Fellowship focused on the immunology of interferons and their activities in multiple sclerosis. University of Maryland School of Medicine. Baltimore. Requires Ph.D. or M.D. with laboratory research experience and curriculum vitae to: Kenneth Johnson, M.D., Chairman, Department of Neurology, UMH, N4W46, 22 South Greene Street, Baltimore, MD 21201.

AMERICAN MUSEUM OF NATURAL HISTORY FELLOWSHIPS

FELLOWSHIPS. Research/Museum Fellowships are available to postdoctoral researchers and established scholars starting in summer and fall 1992. The fellowships support independent research in association with the resident staff. Areas include vertebrate and invertebrate zoology, paleozoology, anthropology, mineral sciences, and the field of museum education at it relates to natural history museums or planetariums. This year, an additional fellowship in marine zoology and/or paleontology is available and will be funded by the Lerner-Gray Fund for Marine Research. Applications are also encouraged for a postdoctoral fellowship restricted to projects dealing with insect or arachnid biodiversity in southern South America. All fellowship applications, including Ph.D. and Lerner-Gray, should be postmarked by 15 January 1992.

GRANTS. Research grants are available to advanced postdoctoral fellows for postdoctoral researchers in the field of zoology and paleontology. Awards average $700. Postmark dates vary for each grant program:

Request information booklet and application forms from:
The Office of Grants and Fellowships, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024.

POSTDOCTORAL FELLOWSHIPS IN DEVELOPMENTAL BIOLOGY

Fellowships in developmental biology are available in the Center for Light Microscope Imaging and Biotechnology, an NSF Science and Technology Center. The center supports research in cell and developmental biology and the development of new technologies that extend the usefulness of light microscopy in biological research. Research opportunities exist in three areas: (1) Cell movements and cell interactions in the sea urchin embryo (C. E. S. Asch); (2) in vivo analysis of Drosophila development using 3-D, time-lapse fluorescent microscopy (J. M. M. M. Phillips); and (3) Axon growth and neural development in the Drosophila visual system (J. Pollock). Candidates should send curriculum vitae, three letters of recommendation, and a statement of research interests to: Dr. D. Lansing Taylor, Department of Biological Sciences and Center for Light Microscope Imaging and Biotechnology, Carnegie Mellon University, 4400 5th Avenue, Pittsburgh, PA 15213.

TRAINING IN VIRAL MOLECULAR BIOLOGY AND IMMUNOLOGY

St. Jude Children's Research Hospital, a premiere center for basic biomedical research in catastrophic diseases of children, invites applications for National Research Service Award Fellowships. Fellowships are available to recent Ph.D. or M.D./Ph.D. graduates who are U.S. citizens or permanent residents and wish to gain training and experience in molecular virology, Chairman, Dr. Robert G. Webster; immunology, Chairman, Dr. Peter Doherty; and infectious diseases, Chairman, Dr. Walter Hughes. All fellowships are awarded for up to 3 years and are based on merit, recommendations and promise of a productive career in basic research. Two positions are available and two positions are open for 1 September 1992. Interested candidates should send curriculum vitae and the names of three references to: Robert G. Webster, Chairman, Department of Virology and Molecular Biology, St. Jude Children's Research Hospital, P.O. Box 318, Memphis, TN 38101-0318, telephone: 901-522-0400, FAX: 901-522-2622.

An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS IN GAMETE AND EMBRYO BIOLOGY AT THE UNIVERSITY OF WISCONSIN, MADISON

Postdoctoral fellowships for research training on the cell and molecular biology of gametes, fertilization and early development are available at the University of Wisconsin, Madison, under the terms of an NIH training grant. Training faculty and research topics are:
- Gerald Schatten: fertilization.
- Barry Bavister: in vitro fertilization and early development.
- Gary Borisy: mitosis.
- James Ferrell: cell cycle regulation.
- Neal Fain: maternal/embryonic transitions.
- Henry Lardy: sperm activity.

Applications (U.S. citizens or permanent residents) should include curriculum vitae, three letters of recommendation, reprints or preprints, and a 2-3 page research proposal, and sent to: Dr. Gerald Schatten Gamete and Embryo Biology Training Program University of Wisconsin 1117 West Johnson Street Madison, WI 53706

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

POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTISTS IN MOLECULAR BASIS OF CARCINOGENESIS. Positions available to study: (1) Carcinogen-viral interactions in cell transformation/oncogenes; (2) Molecular basis of progression of the transformed, tumorigenic and metastatic phenotype; and (3) Induction of terminal differentiation in cancer cells. Candidates with experience in gene-cloning technologies encouraged to apply. Send curriculum vitae and the names of three references to: Dr. P. B. Fisher, Department of Pathology and Urology, Columbia University Medical Center, 630 West 168th Street, New York, NY 10032. FAX: 212-305-5498. Equal Opportunity Employer.

POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTISTS. Research involves analysis of the mammalian endocytic system using somatic cell genetics and quantitative fluorescent microscopy. Applicants must hold a Ph.D. in developmental biology, have some experience in cell sorting (FACS). Experience in cell and molecular biology (especially expression cloning) or FACS desirable. Available immediately. Send curriculum vitae and three references to: Dr. Robert F. Murphy, Department of Biological Sciences, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213.

RESEARCH ASSOCIATE in tumor immunology using murine model systems with emphasis on immune regulation. Experience in T cell and antibody responses required. Send curriculum vitae and a statement of research interests to: Sandra T. Stames, Alabama State Employment Service, 3440 Third Avenue South, Birmingham, AL 35222. Re: Job Order #A0620926.

RESEARCH ASSOCIATE POSITIONS

Research Associate Positions available 1 October 1991 for recent graduates with Ph.D. in the areas of neuropharmacology, signal transduction and immunology. Send curriculum vitae and names of three references to: Karam A. F. Soliman, Ph.D., College of Pharmacy and Pharmaceutical Sciences, Florida A&M University, Tallahassee, FL 32307.
**Advancement in Science Begins at Bio-Rad Laboratories**

The satisfaction of working at Bio-Rad Laboratories comes from seeing your research quickly become a useful product. It's a feeling of success that we invite you to share as you join our Clinical Diagnostics Group.

Growth has resulted in the following opportunities in our R&D Department:

- **Group Leaders**
- **Senior Chemists**
- **Research Chemists**

Successful candidates will have BS/BA, MS or PhD or equivalent in Chemistry, Analytical Chemistry, Biochemistry or Life Science and experience in clinical diagnostics industry or clinical laboratory. California license not required. Group Leaders require 6+ years experience including supervision.

For consideration, please send your resume to: Bio-Rad Laboratories, ECS Division, 3726 E. Miraloma Ave., Dept. 508, Anaheim, CA 92806. EO/M/F/H/V.

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**SENIOR BIOCHEMIST**

Merck Sharp and Dohme Research Laboratories, a worldwide leader in the development of pharmaceutical products, has an excellent career opportunity for a Ph.D. level Biochemist in the Diabetes Research Program. The research focuses on the mechanisms of insulin resistance in NIDDM, in addition to the development of hypoglycemic agents.

We are seeking a highly motivated individual with a Ph.D. in Biochemistry or the equivalent with at least two years of postdoctoral experience and experience in the mechanisms of receptor signalling and intracellular signal transduction. Experience with whole animal models and relevant cell culture systems will be helpful. Excellent verbal and written communication skills are necessary.

Merck Sharp and Dohme Research Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, send your resume with the names of three references to Human Resources Manager, Merck & Co., Inc., P.O. Box 2000, Ad#98, Rahway, New Jersey 07065, RY80-A3.

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**COLLEGE of AGRICULTURAL and ENVIRONMENTAL SCIENCES**

University of California, Davis

Inquiries are invited from qualified applicants for faculty positions (tenure track) available in these areas.

**Assistant Pomologist in Cooperative Extension/Agricultural Experiment Station.** Carry out a program of extension and applied research in postharvest physiology and pathology of fruits. Apply to Dr. Adel Kader, Department of Pomology by December 31, 1991.

**Assistant/Associate Full Professor, Cropping Systems Agronomist.** Responsible for research on cropping systems, direct new long term research facility, teach upper division courses. Apply to Dr. Montague Demment, Department of Agronomy and Range Science (916-752-7757) by January 15, 1992.

**Assistant/Associate Professor, Sensory Science.** Teach sensory science, direct graduate students, develop research program in sensory science. Apply to Dr. Norman Haard, Department of Food Science and Technology (FAX 916-752-4759) by January 15, 1992.

**Assistant Associate Cooperative Extension Specialist.** Extension (75%) and research (25%) in animal waste facilities, management, and environmental control. Apply to Dr. J. W. Oltjen, Department of Animal Science by March 1, 1992.

These positions are to be filled at the Assistant Professor 11-month salary level (unless other rank is indicated above). The positions have responsibilities for teaching, advising and research (in the Agricultural Experiment Station). Candidates must have a Ph.D. in an appropriate field and teaching and research experience. Applicants should submit resume, transcripts (if within five years of graduation), statement of research and teaching experience, list and reprints of publications, and the names and addresses of at least three persons familiar with the applicant's qualifications to individual and department as noted for position (department name), University of California, Davis, CA 95616. Please indicate the position(s) in which you are interested. The completed application must be received by date indicated for each position. The University of California is an Affirmative Action/Equal Opportunity Employer.
Molecular Aspects of Neural Development

The Neuroscience and Behavior Program (NSB) seeks a tenure track Assistant Professor for the 1992-93 academic year. The successful candidate will use molecular genetic approaches to examine the development of the nervous system. Investigators using any of a variety of model systems such as Drosophila, C. elegans, or in vitro systems will be considered.

The NSB Program is a multi-departmental Ph.D. granting unit that consists of 24 faculty. The successful candidate will be an Assistant Professor in the Zoology Department and will be expected to establish an active, externally funded research program. Duties will include teaching in the Zoology program and in the NSB graduate Program. A Ph.D. degree and postdoctoral experience are required. The salary will be commensurate with experience. Liberal space and start up funds are available.

Send vita and a summary of research interests to:

Dr. R. K. Murphey, Director
Neuroscience and Behavior Program
Morrill Science Center (Zoology)
University of Massachusetts
Amherst, MA 01003

Have three letters of recommendation forwarded to the same address by Jan. 4, 1992.

The search will close Jan. 4, 1992 or as soon thereafter as a suitable candidate is found. The University is an Affirmative Action/Equal Opportunity employer.
Postdoctoral Scientists
San Francisco

Genentech, a state-of-the-art leader in the biotechnology industry, has the following Postdoctoral positions available:

**Hybridoma Group**
As part of this group, you will assist in establishing molecular biology approaches for characterizing the epitope mapping and antibody production. Of particular interest, is the structure/function of the protooncogene receptor p185HER2, which is overexpressed in several aggressive adenocarcinomas. Requires a highly motivated individual with a PhD or equivalent in the area of receptor biology or immunoglobulin gene molecular biology. Dept. YS/BF.

**Cell Biology**
Conducting independent research on the integrin family of cell adhesion receptors, you will join a multidisciplinary team whose goal is to discover integrin antagonists. Studies involving characterization of novel receptors and their functions, as well as the molecular and cellular basis for ligand/receptor interactions are being pursued. Qualified candidates must have a PhD with experience in one of the following areas: biochemistry, molecular and/or cell biology. Candidates with an interest in bone biology are particularly encouraged to apply. Dept. YS/SB.

**MAC Immunochemistry**
Within this group, you will study antigen processing and the potential immunogenicity of recombinant protein pharmaceuticals. Collaborating with several departments at Genentech and in academia, you will develop methods of identifying and purifying the peptides generated by *in vitro* and *in vivo* protein-antigen processing systems. Qualified candidates must have a PhD in Immunology, Biochemistry or a related area with basic protein chemistry skills (SDS-PAGE, HPLC and standard chromatographic techniques). Dept. YS/AC.

**MAC Biological Chemistry**
As part of a group studying the biology of IGF-Binding Proteins, you will participate in studies directed at understanding the biochemical mechanism of the interaction between the insulin-like growth factors and Binding Proteins and the role of phosphorylation in this activity. This requires a PhD in Cell Biology or Biochemistry. Dept. YS/VM

Our progressive company offers an extensive benefits package which includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities and free health club membership. Send your resume, indicating Dept. of interest, to Genentech, Inc., Human Resources, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity.

Genentech, Inc.
RESEARCH ASSOCIATE to conduct theoretical studies of mechanisms and stereochemistry of organic and enzymatic reactions, using ab initio quantum mechanical, molecular mechanics, and molecular dynamics methods, to design new and more efficient catalysts, to understand the catalysis and stereoselectivity of NAD+/NADH and to expand our understanding of binding mechanisms. S. degree in chemistry or related field. Experience in writing research proposals for funding and in supervising research program required. Must be able to perform independent research and function effectively as a member of a team. Must be able to work independently, to publish results in refereed journals or to present them at national meetings and to write proposals. Salary range: $25,000 plus fringe benefits. Curriculum vitae, copies of transcripts, and names/telephone numbers of three references to: Dr. G. L. Brown, Professor and Chair, Department, University, Texas A&M University Agricultural Research Station, HCR-2, Box 43-C, Beeville, TX 78102.

RESEARCH ASSOCIATE/PROJECT COORDINATOR POSITION in animal reproduction-endocrinology. M.S. degree in physiology, endocrinology, or related area with training and experience in computer analysis. Experience: $25,000 plus fringe benefits. Curriculum vitae, copy of transcripts, and names/telephone numbers of three references to: Dr. G. L. Brown, Professor and Chair, Department, University, Texas A&M University Agricultural Research Station, HCR-2, Box 43-C, Beeville, TX 78102.

RESEARCH ASSOCIATE to design, perform, evaluate and supervise independent research dealing with mouse lung endothelial cells and mechanisms for their anticoagulant properties as well as experiments on macrophase-mediated tumor cell lysis and the mechanisms thereof. Teach clinical fellows and graduate students immunologic techniques to evaluate host defenses against cancer. Required to conduct animal experimental research work. M.D. or Ph.D. (or equivalent) in immunology; 2 years of research training in cellular immunology; macrophage biology, cancer metastasis, biochemistry and molecular biology; and 1 year of experience in related field using biochemical, cellular and molecular techniques. Experience: $25,000 plus fringe benefits. Curriculum vitae, copies of transcripts, and names/telephone numbers of three references to: Dr. G. L. Brown, Professor and Chair, Department, University, Texas A&M University Agricultural Research Station, HCR-2, Box 43-C, Beeville, TX 78102.

RESEARCH ASSOCIATE/PROJECT COORDINATOR POSITION in animal reproduction-endocrinology. M.S. degree in physiology, endocrinology, or related area with training and experience in computer analysis. Experience: $25,000 plus fringe benefits. Curriculum vitae, copy of transcripts, and names/telephone numbers of three references to: Dr. G. L. Brown, Professor and Chair, Department, University, Texas A&M University Agricultural Research Station, HCR-2, Box 43-C, Beeville, TX 78102.

RESEARCH ASSOCIATE with a strong background in protein biochemistry or molecular biology to participate in research on oxygen-regulated gene expression. Excellent facilities and long-term support for interacting and some data analysis. Experience with independent research is preferred. Initial role would be as associate/collaborator with little or no teaching responsibility but room for professional development. Salary: $26,000. Applicants must be given applications received by: December 1991. Submit curriculum vitae and cover letter to: Pat M. Martha, Jr., M.D., Department of Pediatrics, Baystate Medical Center, 759 Chestnut Street, Springfield, MA 01109.
The Department of Biology is seeking applications and nominations for the Stephen W. Kuffler Endowed Professorship in Biology. The candidate must be an outstanding scientist and a recognized leader in the field of neuroscience, with proven ability as a scholar and teacher. Research may center on any area of the field. The chair is endowed by a generous gift in honor of the late Stephen W. Kuffler and is to be held for the academic tenure of the occupant.

Steve Kuffler contributed to the early development of neurobiology in La Jolla, where a robust environment has now created a large group of neuroscientists. The candidate will occupy laboratories in a new building and should enjoy interactions with colleagues both in the Department of Biology and throughout the community.

Applications should be submitted prior to December 30, 1991. Curriculum vitae and bibliography should be sent to Dr. Nicholas C. Spitzer, Chair of the Search Committee, Department of Biology 0322, University of California at San Diego, La Jolla, CA 92039.

UCSD is an Affirmative Action/Equal Opportunity Employer.

FIFTH ANNUAL
COMPLEX SYSTEMS SUMMER SCHOOL
MAY 31-JUNE 26, 1992
Santa Fe, New Mexico

For graduate and postdoctoral fellows, an intensive introduction to "complex" behavior in mathematical, physical and living systems. Topics include chaos, computational biology, artificial life, pattern formation in biology, complex fluids and solids, ecology of computation, and genetic algorithms. No tuition. Subsistence stipends available.

Co-Directors:
Lynn Nadel, Psychology, University of Arizona
Daniel Stein, Physics, University of Arizona
U.S. Applicants: Further information from:
Andi Sutherland, Santa Fe Institute
1660 Old Pecos Trail, Suite A
Santa Fe, NM 87501
505-989-7372; fax 505-982-0565
email: summerschool@sfi.santafe.edu.

Foreign Applicants: Provide a current resume (including bibliography) along with a statement of your current research interests and comments about why you want to attend the 1992 Summer School. Please have two scientists who know your work write letters recommending you for this program. Send material to above address. Please include your fax number and/or email address.


MICROBIOLOGIST
The Department of Biology at the University of Northern Iowa invites applications from individuals with the Ph.D. degree for a tenure-track assistant professor position effective August 1992. The individual will teach general microbiology, microbiology for students in the allied health programs, and may participate in the University General Education program. The specific area of research in microbiology is open. However, research interest in questions of basic biology that complement the interests and strengths of the department are preferred. The research should include participation by graduate (M.A.) and undergraduate (B.A. and B.S.) students. Post-doctoral teaching and/or research experience is preferred. Salary is competitive and commensurate with experience and qualifications. Applicants should submit a curriculum vitae, transcripts, statement of interests and goals in both teaching and research, relevant reprints, and three letters of recommendation. For full consideration application materials should be postmarked no later than January 3, 1992. Send application and supporting materials to:

Dr. Alan R. Orr
Professor and Chair Search Committee
Department of Biology
University of Northern Iowa
Cedar Falls, IA 50614-0421
(Fax No.: 319-273-2893)

THE UNIVERSITY OF NORTHERN IOWA IS AN EQUAL OPPORTUNITY EDUCATOR AND EMPLOYER WITH A COMPREHENSIVE PLAN FOR AFFIRMATIVE ACTION. THE UNIVERSITY SPECIFICALLY INVITES AND ENCOURAGES APPLICATIONS FROM WOMEN AND MINORITY PERSONS.

Dean, G.W.C. Whiting School of Engineering
The Johns Hopkins University
Baltimore, Maryland

The Johns Hopkins University is seeking applications and nominations for the position of Dean of the G.W.C. Whiting School of Engineering. The School has a full-time faculty of 90, an undergraduate student population of 760, a graduate student population of 385, and a large part-time Masters degree program with 285 part-time faculty and 2500 part-time students. The School covers a wide range of fields and specialties in the following departments as well as in several interdepartmental degree programs.

Biomedical Engineering
Chemical Engineering
Civil Engineering
Computer Science
Electrical & Computer Engineering
Geography & Environmental Engineering
Materials Science & Engineering
Mathematical Sciences
Mechanical Engineering

The Dean has responsibility for and authority over the School’s programs and budget within the context of a highly decentralized university. The University seeks an individual of distinguished accomplishment to work with the faculty and the university in leading a School with a tradition of excellence in research, teaching, and service. Candidates should have demonstrated leadership skills in administration, fund raising and strategic planning as well as the ability to work constructively and creatively in collaborative relationships with the School of Arts and Sciences, School of Medicine, and the Applied Physics Laboratory.

Nominations and applications should be sent to:

Dr. Joseph Cooper, Provost
Chair, Search Committee, Engineering
The Johns Hopkins University
34th and Charles Streets
Garland Hall 265
Baltimore, MD 21218

The Search Committee will begin reviewing nominations and applications on 15 November 1991. The University expects to fill this position before July 1992.

The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.
COMPUTER MANAGER, SEISMIC DATA PROCESSING. Operations including: application of DRS software, installation of new hardware maintenance and troubleshooting; evaluating purchasing; training students. Requires M.S. in geophysics. Salary: $25,000 per year; 8:00 a.m. to 5:00 p.m., Monday to Friday, 40 hours per week; must send résumé to: Job Order 0816207, Job Service of Florida, 701 Southwest 27th Avenue—Room 15, Miami, FL 33135.

EPIDEMIOLOGIST/BIOSTATISTICIAN

The Department of Veterans Affairs, Environmental Epidemiology Service, is seeking candidates for a health statistician or epidemiologist position. Additional levels of experience may provide a doctorate degree in epidemiology, biostatistics or related field. Submit completed SF-171 and curriculum vitae to: Mr. Avery Jackson, Peeretic ion beam 10, Materials Analysis and Modification, 59 Irving Street, N.W., Washington, DC 20422 or telephone: 202-745-8195. Equal Opportunity Employer.

ENVIRONMENTAL SCIENTIST.

Barnard College, Department of Environmental Science seeks applicants with teaching and research interests in earth sciences, chemistry or biology to lead the department. Rank open. Successful applicant expected to develop a research program at Barnard in association with cognate departments, with a specific interest in the local locality, or with other nearby institutions. Send curriculum vitae, statement of teaching and research interests, and three letters of recommendation to: Lawrence Hallam-Douglas, Barnard College, 1154 Broadway, New York, NY 10012-0598. Affirmative Action/Equal Opportunity Employer.

NEUROPHYSIOLOGIST/NEUROPHARMACOLOGIST


PROJECT BIOLOGIST: 2-year position starting January 1992. To design and conduct riparian studies related to flow fluctuations on the Snake River in southwestern Oregon. Minimum requirements are M.S. in ecological field; strong quantitative, analytical and communication skills. Must be familiar with western riparian systems, aquatic ecology with leading data collection abilities. Salary of $29,000 and full benefits. Send cover letter, curriculum vitae, and list of references (three) by January 1992 to: Allan Assell, Idaho Power Co., Environmental Affairs, Box 70, Boise, ID 83707.

STAFF SCIENTIST: Involved in the application of engineered medical equipment to the advancement and diagnosis of medical conditions. Requires: (1) a complete professional interpretive analytical service using primarily ion beam techniques and collaborate in appropriate research projects regarding numbers characterization, (2) Plan and carry out maintenance, repair, upgrading and development of state-of-the-art equipment for resistor and instrumentation. Must be professional ion implantation service and conduct independent studies regarding materials modification by ion beams. Requirements: Ph.D. in materials science with specialization in ion beam techniques and 1 year in job offered or 1 year of research experience related to the above. Requires demonstrated experience in ion beam application to specific areas. Must include: physically operating, maintaining, repairing and upgrading MeV electrostatic particle accelerators and ion implantation facilities; low beam analysis of the stability of materials including data acquisition, data reduction and quantitative interpretation: Radiation safety and handling radioactive materials; vacuum deposition of thin films and UHV technology. Requires publication record demonstrating relevant research in materials modification by ion beams. Forty hours per week; $56,000 per year. Send this ad and your résumé to: Department of Energy, P.O. Box 5920, Mail Stop 8197, Bldg. 81, Albuquerque, N.M., 87185-5806 not later than 7 December 1991. Equal Opportunity Employer.

TRANSPLANT IMMUNOLOGIST: Full-time faculty position at the University of Oklahoma Health Sciences Center, Oklahoma City. Oklahoma for an M.D. or Ph.D. immunologist with training in HLA and paternity testing, to become Director of the Clinical HLA/Tissue Transplant Laboratory. The position requires recruitment of graduate students and residents, and development of an independent research program. Send curriculum vitae with names and addresses of references to: Ronald L. Gillum, M.D., Chair, Search Committee; Attention: C. Ronck, Department of Pathology, OMB 4511, University of Oklahoma College of Medicine—OKC 73190. The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE SCIENTIST-BIOCHEMIST OR CELLULAR BIOLOGIST. The Division of Biomedical Medical Research at Harbor Branch Oceanographic Institution (HBOI) is seeking an individual at the Assistant/Associate Scientist level to participate in a multidisciplinary team involved in the discovery of biologically active compounds derived from marine sources. The individual will participate in the design and implementation of receptor and/or enzyme-based assays for the purposes of screening, bioassay-guided isolation, and mechanism-of-action studies of marine-derived compounds. The individual will be expected to compete for extramural grant and contract support, and to establish a research program which complements current efforts in the areas of marine biology, biochemistry, (three-dimensional cell-cell), and immunology, (tumor biology (signal transduction, selective cytotoxicity), and/or microbiology (opportunist-ic infections). The successful candidate must have a Ph.D. in biology, with experience in both research and teaching. Send curriculum vitae to: Personnel Services, HBOI, Ft. Pierce, FL 34946. Equal Employment Opportunity/ Affirmative Action Program.

The Department of Immunology and Infectious Diseases at a research institute SEEKS A M.D. OR M.D./ PH.D. WITH CLINICAL TRAINING IN INFECTIOUS DISEASES AND EXPERIENCE IN CELLULAR IMMUNOLOGY RESEARCH. Candidate should be capable of establishing an active, independent research program in both basic and clinical science which would be a component of a larger unit in the area of host resistance to infection. Demonstrable experience in a variety of techniques and a broad spectrum of skills is required, including lymphocyte proliferation assay, cell-mediated cytotoxicity assay, T cell cloning, monoclonal antibody production, FACs analysis, enzyme immunoassay, handling of industrial applications and a competitive work record. Salary: $55,000 to $75,000 per annum. Job site: Palo Alto, California. Send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. J. S. Remington, Chairman, Department of Immunology and Infectious Diseases, Research Institute, Palo Alto Medical Foundation, 860 Bryant Street, Palo Alto, CA 94301, no later than 6 December 1991.
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