Women, Work, and Child Welfare in the Third World

Editors: Joanne Leslie, international nutrition consultant, and Michael Paolissio, anthropologist with the International Center for Research on Women.

Enhancement of women's economic opportunities and raising healthy children in the Third World are two important development priorities dependent upon women balancing productive and reproductive responsibilities. In this volume, a variety of research approaches and methodologies illustrate the multifaceted nature of women's work and child welfare. The authors carefully drawn conclusions identify key relationships and criteria that must be considered for the development of effective economic and health programs. The book is essential reading for all researchers and policymakers concerned about the relationship between women's work and child welfare in the Third World.

265 pp., 1989.
$28.50/$22.80 for AAAS members who include their membership number from Science.

Order from: Westview Press, Dept. AAAS, 5500 Central Avenue, Boulder, CO 80301. Add $2.50 postage and handling for the first book ordered; 75¢ for each additional book.

Frontiers in Basic Sciences That Relate to Heart, Lung, and Blood Diseases Symposium:

Molecular and Cellular Biology of Cystic Fibrosis:
Basic Concepts and Strategies for New Therapies

February 21-22, 1991

Sponsored by The
Masur Auditorium
National Heart, Lung, and
Blood Institute (NHLBI) and
Bethesda, Maryland

The Cystic Fibrosis Foundation

The symposium is the sixteenth in the series of "Frontiers in Basic Sciences That Relate to Heart, Lung, and Blood Diseases." This series is conducted by NHLBI to capitalize on and transfer the progress achieved in basic science disciplines to clinical research programs. Through the pursuit of new knowledge concerning the fundamental aspects of the life processes relating to heart, lung, and blood diseases, it is hoped that better approaches to disease prevention and control will be discovered. At this symposium, leading researchers and experts in the field will present their views on the state of the science, the problems facing current understanding, and anticipated future developments in the research of cystic fibrosis.

The symposium will be chaired by Dr. Ronald G. Crystal of the National Heart, Lung, and Blood Institute, Bethesda, Maryland, Dr. Arthur Beaudet of Baylor College of Medicine, Houston, Texas, and Dr. William B. Guggino of The Johns Hopkins University, Baltimore, Maryland. Presentations will be structured around the following topics: the cystic fibrosis gene; the normal and cystic fibrosis phenotype; and strategies for new therapies. Presentations by noted experts will be followed by open discussion.


For further information and registration materials, please contact:
Ms. Geraldine Wolfe, Office of Program Planning and Evaluation, National Heart, Lung, and Blood Institute, National Institutes of Health, Building 31, Room 3A06, Bethesda, Maryland 20892, (301) 496-9699.

A PLATFORM FOR HUMAN GENETICISTS FROM ALL OVER EUROPE AT THE OCCASION OF THE 25TH ANNIVERSARY OF THE CENTER FOR HUMAN GENETICS, LEUVEN

JULY 13 - 16, 1991 - LEUVEN (BELGIUM)

3 PLENARY SESSIONS: 12 REVIEWS BY TOP EXPERTS
6 CONCURRENT SESSIONS: 49 ORAL PRESENTATIONS
BY SELECTED PARTICIPANTS
POSTER SESSIONS: TOPICS IN HUMAN GENETICS FROM CLINICAL TO MOLECULAR GENETICS

IN ADDITION OPPORTUNITIES FOR COMPASSION, SYNLABUSHARE, VIDEOSHARE, CURBSTONE CONSULTATIONS IN SYNDROMOLOGY, GENETIC COUNSELING, RISK CALCULATIONS

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**BOOKS FROM SCIENCE**

**Astronomy & Astrophysics**  
*Edited by Morton S. Roberts*  
Provides a broad, coherent picture of the universe, from the solar system to the quasars at the edge of the cosmos.  
1985; 384 pp.; color plates  
#85-04H; hardcover; $29.95 (members $23.95)  
#85-04S; softcover; $17.95 (members $14.35)

**Biotechnology: The Renewable Frontier**  
*Edited by Daniel E. Koshland, Jr.*  
Presents topics at the forefront of biological research, including techniques, immunology, developmental biology and cancer, hormones and metabolism; biotechnology, virology, plant sciences, and behavior and sensory phenomena.  
1986; 384 pp.  
#85-26H; hardcover; $29.95 (members $23.95)  
#85-26S; softcover; $17.95 (members $14.35)

**Frontiers in the Chemical Sciences**  
*Edited by William Spindel and Robert M. Simon*  
Selected articles from 1980 to 1985 deal with areas such as molecular reactivity, catalysis and synthesis, and analytical tool development.  
1986; 624 pp.  
#85-10H; hardcover; $29.95 (members $23.95)  
#85-10S; softcover; $17.95 (members $14.35)

**AIDS:**  
**Papers from Science, 1982-1985**  
*Edited by Ruth Kulstad*  
Frequently cited research papers and news reports on AIDS trace the history and scientific developments of the epidemic through September 1985.  
1986; 654 pp.  
#85-23S; softcover; $19.95 (members $15.95)

**Science, Technology, and Society: Emerging Relationships**  
*Edited by Rosemary Chalk*  
Offers 85 articles, editorials, and letters from *Science* magazine on the relationship between science and technology and society covering the period since World War II.  
1988; 262 pp.  
#88-12S; softcover; $19.95 (members $15.95)

Order from: AAAS Books, Dept. A17, PO Box 753, Waldorf, MD 20604. Phone orders (VISA/MasterCard only), call 301-645-5643 (9am-4pm ET) and ask for AAAS. Individuals must prepay or use VISA/MC; purchase orders, add $3.50 shipping. Specify item #; allow 2-3 weeks for delivery. For shipments to CA, add sales tax.

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AAAS American Association for the Advancement of Science
Colby College invites applications for a 1-year, sabbatical leave replacement position (1991–92) as ASSISTANT PROFESSOR OF GEOLOGY. Applicants should have a Ph.D., experience with and a strong commitment to teaching undergraduates, broad training in the biological sciences, and special interests and training in genetics, evolution, and animal biology. Familiarity with liberal arts colleges and/or postdoctoral training is desirable. Responsibilities will include teaching, research, and an interest in animal behavior, and a segment of our introductory biology course that deals with animal biology. Submit letter of application, statement of teaching and research interests, curriculum vitae, reprints of publications, undergraduate and graduate transcripts, and three letters from individuals familiar with the applicant's teaching and/or research. Applications should be complete by 17 December 1990. Colby College is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from women and minorities.

ENVIRONMENTAL BIOLOGIST/ECOLOGIST

ASSISTANT PROFESSOR. Tenure track. Responsibilities include teaching general biology and upper division courses in ecology. Ph.D. required, appropriate vise status if applicable, commitment to undergraduate teaching and research, teaching experience preferred. Send curriculum vitae, transcripts, and letters from three references to: Search Committee, Department of Biology, Pura, Colby College, Waterville, ME 04901. Applications should be complete by 17 December 1990. Colby College is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from women and minorities.

UNIVERSITY OF OTTAWA

DEPARTMENT OF PHARMACOLOGY

A tenure-track ASSISTANT PROFESSOR POSITION is available for candidates with a background in pharmacology. Candidates will have a Ph.D. or equivalent degree, at least 2 years of postdoctoral experience, and a strong commitment to teaching and research. Candidates should have a solid research record with a molecular biology approach to research. Major research interests of the department include neuropharmacology, immunopharmacology, cardiovascular pharmacology, endocrine pharmacology, and toxicology. The department has teaching responsibilities for medical, nursing, and undergraduate students as well as graduate students in the M.Sc. and Ph.D. programs. Knowledge of French is an asset. Applications, which must include curriculum vitae, three letters of recommendation, a brief description of past and present teaching and research interests, and a statement of career objectives, and an outline of proposed research, should be sent to: Dr. J.-M. Trifiro, Chairman, Department of Pharmacy, University of Ottawa, Ottawa, Ontario, Canada, K1H 8M5. The closing date for applications is 31 January 1991. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

ASSISTANT PROFESSOR

NEUROPHARMACOLOGY

Applications are invited for a tenure-track position available in 1991 at the assistant professor level in the Department of Pharmacology at the University of Rochester. Because the candidate would be expected to interact with faculty in the departmental Experimental Therapeutics Unit, whose focus is neurodegenerative disease, we seek applicants who address fundamental questions in neuropharmacology and who are interested in the pharmacology of neurodegenerative diseases. Applicants must have a Ph.D. or M.D. degree, or both, 2 years of postdoctoral experience, the potential to develop and maintain an independent line of research, and an interest in professional and graduate education. Applications should send their curriculum vitae, the names of at least three references, and a description of their present and future research interests to: Dr. J.-M. Trifiro, Chairman, Department of Pharmacy, University of Rochester, 601 Elmwood Avenue, Rochester, NY 14620. Applications will be received starting 1 December 1990 and will be considered until 31 December 1990 or until the position is filled. The University of Rochester is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

TENURE-TRACK ASSISTANT PROFESSOR

MARINE BIOLOGY AND GEOPHYSICS

The School of Oceanography invites applications for a tenure-track position at the assistant professor level to complement their existing program on mid-ocean ridge processes. Applicants should be highly qualified in quantitative modeling of processes involved in the creation, and active, of the mid-oceanic lithosphere and demonstrate an interest in the dynamics of the upper mantle, the processes associated with the extraction and recycling of material from the mantle, and the mechanical properties of the lithosphere, and physical processes in hydrothermal systems. The successful candidate will be expected to have a strong commitment to go-sea research and to develop a strong research program that integrates a wide range of observational and experimental data. In addition, teaching at the undergraduate and graduate levels, as well as supervision of graduate students, will be an integral responsibility. Closing date for applications is 15 January 1991. Applications should send curriculum vitae, a statement of research interest, a list of publications, recent reprints, and the names of four references to: Professor A. R. M. Nowell, Director, School of Oceanography, W.B. 10, University of Washington, Seattle, WA 98195. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

CELL BIOLOGY

A tenure-track appointment at the ASSISTANT PROFESSOR level is available as of September 1991. Qualifications include a Ph.D. and postdoctoral experience. The candidate will be expected to teach undergraduate courses in cell biology, either developmental biology or genetics; teach general biology; develop graduate courses in his/her area of expertise; and participate in our genetic engineering option. Training of graduate students at the M.S. level and ability to develop an externally funded research program are essential. Search will continue until position is filled. Please send your curriculum vitae, transcripts, reprints, statement of teaching interests and experience, and the names of three references to: Southern Illinois University at Edwardsville (SIUE), Biological Sciences Department, Box 1651, Edwardsville, IL 62026-1651. Attention: Search Committee. SIUE is an Affirmative Action Employer.

THE UNIVERSITY OF CALIFORNIA

LOS ANGELES (UCLA)

BILOGICAL CHEMISTRY

ASSISTANT PROFESSOR

The Department of Biological Chemistry has an opening for an assistant professor (tenure-track) to begin January 1991 or on a later date. Applicants must have a Ph.D. in biological chemistry and show evidence of commitment to undergraduate education and research. Responsibilities for biochemistry courses and for developing a course in molecular biology, ability to teach organic chemistry, an interest in recruiting and retaining load of 24 contact hours per academic year. Randolph-Macon is an Equal Opportunity Employer. Letter of application, brief description of teaching philosophy and research plans, curriculum vitae, and three letters of recommendation must reach us by 31 December 1990. Send to: Dr. Brian W. Teach, Chair, Department of Chemistry, Randolph-Macon College, Ashland, VA 23015.
SYSTEMATIC MAMMALOGIST. Tenure-track ASSISTANT PROFESSOR beginning fall semester 1991. Ph.D. required. To teach mammalogy, wildlife conservation, and introductory courses. Send curriculum vitae, transcripts of all college work, and three recommendation letters to: David Castaneda, Biology Department, Central Montana State University, Warrengburg, MO 64093–5063. Considerations begin 26 December 1990 and will continue until position is filled. Assistant Professor. Equal Opportunity Employer. Women and minorities encouraged to apply.

SYSTEMIC ZOOLOGIST, ASSISTANT PROFESSOR. Tenure-track, fall 1991. Ph.D. required. Preference given to applicants with demonstrable expertise in molecular systematics and/or cladistics. To teach introductory and upper-level courses in systematic zoology. Send curriculum vitae, transcripts, and three letters of reference by 1 January 1991 to: Dr. David J. Bevers, Vice President for Academic Affairs, Austin College, Sherman, TX 75091–1177.

MIAMI UNIVERSITY

The Department of Zoology at Miami University intends to make two tenure-track appointments at the ASSISTANT PROFESSOR level on the Oxford Campus effective August 1991. Applicants seeking a position as a molecular biologist with a Ph.D. whose training is in developmental biology and/or genetics, and who is interested in both teaching and active research involving NIH-funded graduate and undergraduate courses in a new interdepartmental program in molecular biology and biotechnology. We are particularly interested in candidates with a Ph.D. whose training is at the cell or molecular level, and who is interested in both teaching and research. Teaching duties include a rotational basis courses in developmental biology and a position in the introductory program. The successful applicants are expected to develop an active research program and to seek external funding for it. Applications received by 26 January 1991. Specify the position(s) in which you are interested, and send a resume, transcripts of all academic work, a description of research interests and teaching philosophy, and three letters of reference to: R. G. Sherman, Department of Zoology, Miami University, Oxford, OH 45056.

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

OCEANOGRAHER/LIMNOLOGIST: AQUATIC ECOSYSTEMS

The Department of Biology and the Center for Great Lakes and Aquatic Sciences at the University of Michigan invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level. The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply. To: Dr. Craig Martin, Chair, Search Committee, Department of Botany, Harworth Hall, University of Michigan, Ann Arbor, MI 48109-1045. Telephone: 913-864-3645. The University of Kansas is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORS, BOTANY

Applications are invited for two entry-level, tenure-track positions in botany: (i) plant ecology and (ii) plant morphology. For each position a strong commitment to excellence in teaching and the development of an active externally funded research program will be expected. Curriculum vitae, copies of relevant publications, official graduate school records, and three letters of reference for at least three letters of recommendation must be received within 15 January 1991 by: Dr. David E. Lemke, Department of Biology, University of Maryland, College Park, MD 20742. Closing date for applications is 15 January 1991.
WBC-1

Wayne State University

FACULTY POSITIONS

The Department of Biological Sciences is undertaking a major development effort, including the occupation of a new Biological Sciences Building in Spring, 1991 and the recruitment of a significant number of new faculty over the next 4 years. The establishment of several new teaching and research initiatives for graduate and undergraduate students includes a graduate Molecular Biotechnology Program and a Howard Hughes Undergraduate Education Initiative in cell and molecular biology. We invite applications for three tenure-track faculty positions at the Assistant or Associate Professor level, to begin in August, 1991, in the following broad areas:

MICROBIOLOGY/MOLECULAR GENETICS
MOLECULAR CELL BIOLOGY
NEUROBIOLOGY

Applicants should have a doctoral degree and suitable postdoctoral experience. Successful candidates will be expected to teach at the undergraduate and graduate levels and to establish extramurally-funded research programs. WOMEN AND MINORITY CANDIDATES ARE ENCOURAGED TO APPLY. Review of candidates will begin January 15, 1991 and continue until suitable candidates have been identified. Send curriculum vitae, including a one-page statement of research interests, and the names of at least three references to:

Dr. P. Dennis Smith, Chairman
Faculty Search Committees
Department of Biological Sciences
Wayne State University
Detroit, Michigan 48202

Wayne State University is an Equal Opportunity/Affirmative Action Employer

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BIOCHEMIST/ENZYMOLoGISt
Mechanism Based Drug Discovery

The department of Biochemical Parasitology in the Merck Sharp & Dohme Research Laboratories has an immediate opening for a Senior Research Biochemist interested in exploring new metabolic pathways as potential chemotherapeutic targets for the treatment and prevention of parasitic diseases.

Primary responsibilities include isolation and characterization of soluble and membrane associated enzymes and the design of screens for the discovery of novel antiparasitic agents. This position offers a unique opportunity to interact with a team of scientists in various disciplines focused on developing new chemotherapeutic agents.

The position requires supervisory experience, a Ph.D. in Biochemistry, and at least 4 years of postdoctoral experience in a relevant field of biochemistry. Superior skills in enzymology and protein purification are essential. The applicant's practical skills should be complemented by a high level of initiative and superior communication skills.

Merck Sharp & Dohme Research Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our facilities are state-of-the-art and our renowned research environment is excellent. For consideration, please send your resume with the names of three references to Human Resources Manager, Merck & Co., P.O. Box 2000, WBC-155, Dept. S-12, Rahway, NJ 07065.

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The University of Sydney

AUSTRALIA

LECTURESHP
(FIXED TERM)
School of Physics
Reference No. 44/04

The Chatterton Astronomy Department within the School of Physics is in the process of commissioning the new Sydney University Stellar Interferometer (SUSI). SUSI is an optical interferometer of unprecedented angular resolving power with baselines covering the range 5-640 m and a limiting sensitivity of approximately 8th magnitude. It is capable of undertaking a wide range of programs in stellar astrophysics. An experimental physicist/astrophysicist is required to participate in the stellar interferometer program.

The appointee will be required to participate in the general teaching programme of the School of Physics at the undergraduate and postgraduate levels, to participate in the operation and development of the stellar interferometer, and to carry out research in stellar astrophysics.

Further information from Professor J. Davis, School of Physics 612 692 3604.

The appointment will be for a fixed term from January 1991 to 31 December, 1993.

Salary range: $43,163-$44,096 p.a.


Method of Application: Applications, quoting Reference No., and including curriculum vitae, list of publications and the names, addresses and fax nos. of three referees (only three referees will be contacted in the first instance and if more referees are nominated they should be ranked in order of preference) to the Registrar, Staff Office, University of Sydney, NSW 2006, Australia, by the above closing date.

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Pennsylvania State University

Eldridge Reeves Johnson Professorship

The University of Pennsylvania School of Medicine invites nominations and applications of outstanding scientists to fill a newly created professorship named and supported by the Eldridge Reeves Johnson Foundation. The Foundation, established in 1929, has a distinguished record of contributions to medical physics and biophysical technology. The successful candidate will be active in the area of Biomolecular Structure and Function. In addition to a faculty appointment in the Department of Biochemistry and Biophysics, the individual will have the opportunity to participate in developing a group of outstanding scientists and students in the area of molecular biophysics.

The University is an equal opportunity affirmative action employer. Women and minority candidates are encouraged to apply.

Please submit nominations or self-applications to:

Franz M. Matschinsky, M.D.
Chairman, Johnson Professorship
Search Committee
University of Pennsylvania
School of Medicine
414 Anatomy-Chemistry Building
3600 Hamilton Walk
Philadelphia, PA 19104-6059
Molecular Biologists

Du Pont Merck Pharmaceuticals has 2 challenging openings in the Molecular Biology Department in its Receptor Biology Group.

Molecular Biology Scientist
Candidate must have experience in a full range of recombinant DNA techniques to perform research on the cloning, expression and structure-function relationships of cellular receptors. The successful candidate should also possess an MS degree in Molecular Biology, Biology or Biochemistry with three or more years of laboratory experience and a demonstrated ability to conduct independent research. Experience with protein electrophoresis, immunochemical techniques and tissue culture is helpful. Exceptionally qualified candidates with BS degrees will also be considered.

Postdoctoral Visiting Scientist
Candidate will focus on purification, cloning, structure-function relationships and signal transduction mechanisms of cellular receptors. Applicants should have a PhD in Biochemistry, Immunology or Molecular Biology and publications dealing with receptor isolation, cloning and/or functional analysis. The appointment is for a period of one year, renewable for a second year upon mutual agreement.

Consider an innovative company that has strong concern for both its employees and our environment. Consider Du Pont. You'll find a stimulating environment at our Wilmington, Delaware location which offers a wide range of academic, cultural and recreational activities. Qualified candidates for both positions should send a curriculum vitae and three letters of recommendation, indicating position of interest to: Du Pont Human Resources, Room PSS-0031, Wilmington, DE 19898.
DOCTORAL PROGRAM
IN
PHYSIOLOGY
AND
NEUROBIOLOGY

Prospective Graduate Students and Post-doctoral Trainees are invited to apply to the Program in Physiology and Neurobiology jointly administered by Rutgers University and The University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School. Scientists are located at the Robert Wood Johnson Medical School, Rutgers University, and the new Center for Advanced Biotechnology and Medicine. Facilities are located on the scientific Busch Campus in the New Brunswick/Piscataway area. Representative research areas include molecular neurobiology, developmental neurobiology, cellular neurobiology, systems biology, and the relationship of biology to behavior and mentation. Tuition remissions and stipend support will be offered to outstanding candidates for the graduate student positions.

For information and application forms contact:

Dr. Ira B. Black, Chairman
Department of Neuroscience
and Cell Biology
UMDNJ–Robert Wood Johnson
Medical School
676 Hoes Lane
Piscataway, NJ 08854-5635
(201) 463-5388

RU and UMDNJ are Affirmative Action/Equal Employment Opportunity Employers, M/F/H/V, and UMDNJ is a member of the University Health System of New Jersey.

THE INTERNATIONAL RICE RESEARCH INSTITUTE (IRRI)
seeks three (3) Agricultural Scientists
for assignment to Egypt

The successful candidates (one of whom will be the team leader) will work in collaboration with Egyptian national scientists and officers of the Rice Research and Training Center. All must have demonstrated ability to work as members of interdisciplinary teams and must be fluent in English.

Agronomist (Weed Science)

Duties: Collaborate with Egyptian rice scientists in the design, implementation and analysis of on-station and on-farm research leading to the development of improved weed management techniques, particularly for direct-seeded rice. Determine the distribution and importance of weeds in different rice environments. Study the effect of shifting from transplanting to direct seeding on weed species composition. Develop economically-viable management practices for improved weed control in rice. Provide on-the-job training to Egyptian rice scientists in weed science research.

Qualifications: Ph.D. in agronomy or related field and at least 5 years experience in weed science research.

Agronomist (Soil Fertility Improvement)

Duties: Collaborate with Egyptian rice scientists in the design, implementation, and analysis of on-station and on-farm research leading to development of practices for soil fertility improvement in rice-based farming systems with emphasis on direct-seeded rice. Identify and resolve soil fertility constraints to rice yields on saline/alkaline soils. Develop and evaluate fertilizer practices in association with improved water use efficiency. Provide on-the-job training to Egyptian rice scientists in agronomic research to improve soil fertility.

Qualifications: Ph.D. in soil science or related field and at least 5 years experience in soil fertility research.

Plant Breeder

Duties: Collaborate with Egyptian rice scientists in rice varietal improvement research. To generate, evaluate, and select improved rice varieties with high yield potential, resistance to insect pests and diseases, and tolerance for soil salinity/alkalinity. Provide on-the-job training to Egyptian rice breeders in the approaches and techniques of rice varietal improvement.

Qualifications: Ph.D. in plant breeding or related field and at least 5 years experience in varietal improvement.

IRRI is an international, non-profit, donor-funded agricultural research institute that undertakes research and training at its headquarters in the Philippines and collaborates with national agricultural systems worldwide. IRRI's goal is to develop more productive and sustainable rice technology and to strengthen national research capability. Salary and benefits will be commensurate with those of similar international institutions and programs in agriculture.

Application: Applications for the positions described will be accepted until 31 December 1990. Please submit curriculum vitae, date of availability, and the names of three referees to:

Dr. Klaus Lampe, Director General
IRRI, PO Box 933, 1099 Manila, Philippines
FAX: 63-2-817-8470. TELEX: 40890 RICE PM or 22456 IRI PH
ASSISTANT PROFESSOR IN BEHAVIORAL NEUROSCIENCE. The Neuroscience Program and the Psychology Department at Princeton University announce a position available for the fall of 1991. The position involves teaching and research and is open to any area of neuroscience with an emphasis on behavior or function. Send curriculum vitae, teaching and research statements, and three letters of recommendation to: Chair, Neuroscience Search Committee, Code NB, Department of Psychology, Princeton University, Princeton, N.J. 08544–1010. Applications preferred by 15 February 1991. Princeton University is an Equal Opportunity/Affirmative Action Employer.

VERTEBRATE ANATOMY/PHYSIOLOGY ASSISTANT PROFESSOR. Tenure-track position (pending funding). Doctorate required; teaching and postdoctoral experience preferred. Primary teaching duties will be human anatomy and physiology as well as courses in candidate's specialty. Candidate is expected to establish a research program and to participate in the graduate program. Candidates will be evaluated on their ability to complement the existing faculty specialties; neurobiologists, functional morphologists, or mammalians are encouraged to apply. Send curriculum vitae, teaching and research statements, and three letters of recommendation to: Dr. Bonnie Sampsel, Chairman, Graduate Department of Anatomy, University of Vermont, 1300 Elmway Avenue, North Burlington, VT 05401. Review of applications will begin immediately and continue until the position is filled.

CALIFORNIA INSTITUTE OF TECHNOLOGY The Computation and Neural Systems (CNS) program at Caltech is conducting a search for a tenure-track ASSISTANT PROFESSOR on the engineering side of CNS, for which the term of initial appointment is normally four years. CNS is an interdisciplinary Ph.D. program established in 1986 that brings together engineers and scientists who are applying ideas from neuroscience to the development of new computational devices and systems and biologists who are investigating how computation is done in the nervous system. Areas of interest include motor control, learning, speech, vision and artificial neural networks. The appointee will be expected to develop a strong research activity and to teach courses in his or her specialty. Applicants should send a curriculum vitae, list of publications; a brief statement of research accomplishments and goals; and the names of at least three references to: Professor Y. Abu-Mostafa, Caltech 116-81, Pasadena, CA 91125. Caltech is an Equal Opportunity Employer and is specifically encourages women and minorities to apply.

ASSISTANT/ASSOCIATE PROFESSOR OF ASTRONOMY The Interdisciplinary General Arts and Sciences Program at Arizona State University West invites applications for an assistant/associate professor of solar physics or Ph.D. in astronomy, an excellent research record, and successful teaching experience at the university level is normally required. Appointment as associate with teaching, publications, and record of continuing professional and scholarly achievement. Administrative experience at the departmental level or above and successful funding history for research or curriculum development would be an asset. This individual will teach upper-division courses in astronomy and develop with other faculty a new inter-disciplinary program in arts and sciences. The person will be expected to develop and participate in team-teaching a seminar in the physical sciences, either astronomy or a related issue from the humanities or social sciences. Because this new degree program is aimed at returning adult learners, prior experience working with this population is an additional asset.

Letter of application addressing teaching philosophy, scholarly development and area of research, and curriculum development experience, curriculum vitae, and names and addresses of three references are due by 15 December 1990. Send materials to:

Thomas V. McGovern
Director of Arts and Sciences
Arizona State University West
4701 West Thunderbird Road
Phoenix, AZ 85069–7100

ASU West is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, BIOCHEMISTRY. The Department of Biochemistry at the University of Vermont invites applications for a tenure-track faculty position at the level of assistant professor. Applicants with a commitment to graduate/medical student education, collaborative research interests, and a commitment to diversity are encouraged to apply. Send curriculum vitae, teaching and research statements, and three letters of recommendation to: Dr. Richard Edberg, Department of Biochemistry, College of Medicine, University of Vermont, 1241 Willard Street, Burlington, VT 05405. Positions are open at all institutions of higher education. Women and minorities are encouraged to apply.

UNIVERSITY OF MICHIGAN PALEOBOTANIST The Department of Biology and Museum of Paleontology invite applications for a joint tenure-track position in paleobotany. We seek applicants with broad research and teaching interests in paleobotany and expertise in the systematics of fossil plants. Ph.D. is required. We anticipate appointment will be made in 1991 at the level of Assistant Professor. Successful candidate will be expected to participate in undergraduate teaching programs of the Department of Biology, train graduate students, and develop a vigorous extramurally supported research program in the museum. This appointment involves curatorial responsibility for a major paleobotanical research collection. Current faculty in paleontology are D. C. Fisher, M. Foote, P. D. Ginsberg, G. R. Smith. University resources include strong programs in organic and evolutionary biology and in sedimentary geology. Send curriculum vitae, statement of research interests, and names of five people who can be contacted to: Professor Philip D. Gingerich, Search Committee Chair, Museum of Paleontology, University of Michigan, Ann Arbor, MI 48109-1079. Closing date for applications is 31 January 1991. The University of Michigan is a nondiscriminatory, Affirmative Action Employer.

INSTRUCTOR OR ASSISTANT PROFESSOR RADIATION ONCOLOGY Facilities located in a newly constructed, 500-bed, tertiary care cancer hospital, occupying 30,000 square feet, includes three linear, plus dedicated intraoperative linear, hyperthermia, HD remote afterloading, dedicated CT scanner, two simulators, conventional and two 3-D treatment planning workstations. Responsibilities: Board-eligible with demonstrated interest in radiation oncology. Send resume to: Dr. Reinhard A. Gallhauber, Radiation Oncology, Arthur James Cancer Center, The Ohio State University, 333 West 10th Avenue, Columbus, OH 43210.

CLINICAL MICROBIOLOGIST. Laboratory Medicine Department, Yale University, recruiting an ASSISTANT OR ASSOCIATE PROFESSOR in microbiology. The position is open to candidates with Ph.D. or M.D. or M.D. and Ph.D. in microbiology and related fields. The candidate must be board-certified in medical microbiology. Applications received will be considered until the position is filled. The University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.

INFECTIONOUS DISEASES FACULTY POSITIONS The University of California, San Diego (UCSD), School of Medicine, and the Salk Institute for Biological Studies, San Diego, California, are seeking a full-time, tenure-track faculty position. The position is open to candidates in the area of microbial pathogenesis for any of the following research areas: (i) intracellular parasitism, host-bacteria interaction, or host-parasite interaction; (ii) retrovirology or basic AIDS research. Applicants must have a minimum of 3 years research experience and strong experimental designing, basic biological skills, experience in cell biology, immunology, biochemistry, or molecular biology, and published at least one first-authored paper in a prestigious peer-reviewed laboratory research-oriented journal. Send curriculum vitae; three copies of all papers, abstracts, manuscripts, or research proposals submitted for publication (optional); statement of future research interests; and three letters of recommendation to: Infectious Diseases Search Committee, 9500 Gilman Drive, University of California, San Diego, California 92037. UCSD is an Equal Opportunity Employer. Women and minorities are encouraged to apply.
Bioprocess Development Opportunities At The Forefront Of Medical Research

The Medical Research Division of American Cyanamid Company is recognized internationally as a leader in the research and development of therapeutic compounds. Our products have been instrumental in the treatment of infectious diseases, cancer, cardiovascular and central nervous system diseases. To build upon our strengths and create an environment that will foster an even stronger and more dynamic R&D organization, we seek outstanding scientists for our Fermentation Development Department.

**Group Leader-Microbiology**

The technical responsibilities of this position relate to the conception, development and improvement of microbially-based processes for the production of a variety of human and animal health products such as antibiotics, recombinant DNA-derived proteins, enzymes and other compounds with unique biological or chemical activities.

The individual we are seeking will have direct supervisory responsibility for a group of 10-12 scientists and technicians working in several project areas including microbial physiology and biochemistry, genetics, molecular biology and biotransformation. The successful candidate must be able to work effectively within a multidisciplinary project team environment with protein, organic, and analytical chemists and process engineers.

To qualify for this highly visible position, a Ph.D. in Microbiology, or a closely related field is required as is several years of postdoctoral experience, preferably within industry. Previous supervisory responsibility is necessary. (Dept. DS)

**Protein Biochemists**

The Biochemistry Group has two openings for Ph.D. scientists experienced in protein isolation and characterization. These individuals will have responsibility for the isolation and purification of recombinant and naturally-produced proteins from biological processes and will provide technical support to the Biochemical Engineering Department for large-scale downstream processing. The development and implementation of analytical assays for protein characterization are also required. A minimum of two years postdoctoral training is necessary. Additional industrial and large-scale processing experience is desirable. (Dept. VD)

**Bioanalytical Chemist**

The Analytical Development Group has an opening for a Ph.D. scientist to establish procedures and methods for the characterization and quantification of antibiotics, proteins and other bioactive molecules. The application of bioanalytical technologies to improve and optimize biological processes will also be required. A background in microbiology and biochemistry is desirable. Postdoctoral experience is preferred. (Dept. FB)

All positions offer competitive salaries and excellent benefits and are located at the Lederle Laboratories Campus of American Cyanamid in Rockland County, just twenty-five miles north of New York City. For immediate consideration, please send your resume/c.v. with salary requirements indicating the department code for the position of your choice to: Professional Employment Representative, Lederle Laboratories, 401 N. Middletown Road, Pearl River, New York 10965. An Equal Opportunity Employer m/f.

Dedicated People Dedicated To People Since 1906.
POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR
INFECTIOUS DISEASES
The ID Section at Hospital of the University of Pennsylvania has openings for assistant and associate professors in the Department of Medicine. Applicants must have excellent capabilities in basic science research. Qualified individuals with interests in all ID-related areas of investigation are invited to apply. Particular topics in recruiting will be placed on individuals experienced in herpesviruses, retrovirology, and bacterial pathogenesis. Clinical responsibilities include conducting research in ID and attending ID clerk-rotation, and teaching. Three-year contract to beginning of position.

BIOLOGY. Two tenure-track positions to begin 1 September 1991, (i) ASSISTANT OR ASSOCIATE PROFESSOR. Vertebrate or invertebrate physiology or related area. (ii) ASSISTANT PROFESSOR. Molecular or cellular biology. Requires ability to teach upper division courses in special as well as introductory courses. Teaching in interdisciplinary programs, collaboration with medical and engineering faculty, research involving university as well as all possible. Send curriculum vitae, a statement of teaching and research interests, and three letters of recommendation to: John D. Shipman, Assistant Dean, College of Arts, Mercer University, Macon, GA 31207. We are especially interested in women and minority candidates.

NEUROBIOLOGY/CELL BIOLOGY
Applications are invited for two tenure-track or tenured positions at ASSISTANT TO FULL PROFESSOR level, beginning 1 September 1991. Candidates should have a Ph.D., M.D., or equivalent degree, and have demonstrated ability to conduct independent research and attract extramural funding. All areas of specialization are encouraged. Applicants are advised to contact several individuals at the center of each area to gain an understanding of the potential areas for special collaboration. The successful candidate will be expected to teach both undergraduate and graduate courses in the area of specialization. The successful applicant will be expected to teach pathology in our lower-level core course and to provide more specialized instruction to the candidate's area of expertise in our upper-level program. The deadline for applications is 31 January 1991. Applicants must send their curriculum vitae, at least one copy each of two recent publications, a description of research interests, and names of at least three references who can be contacted:

Dr. Louis A. Hobson, Chair
Department of Pathology
University of Pennsylvania
P.O. Box 4045
Philadelphia, PA 19110

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents. The University of Victoria is committed to an employment equity program. Women are particularly encouraged to apply.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR
IMMUNOLOGIST
The Department of Pathology, Brigham and Women's Hospital and Harvard Medical School, invites applications for an appointment at an assistant or associate professor. Outstanding applicants with expertise in molecular immunology, transcriptional regulation, and lymphocyte differentiation and activation are encouraged to apply. A Ph.D. or M.D. degree and have completed postdoctoral training. Send curriculum vitae, list of publications, description of current research, and three letters of recommendation to: Dr. A. K. Abbas, Department of Pathology, Brigham and Women's Hospital, 78 Francis Street, Boston, MA 02115. The hospital is an Equal Opportunity Employer.

ENDOWED CHAIR IN HUMAN NUTRITION
Applications are being accepted for the Lillian Fountain Smith Chair in Human Nutrition in the Department of Food Science and Human Nutrition at Colorado State University (CSU). The individual should be a senior person with established credentials appropriate for appointment as a full professor. It is expected that the chair will direct the development and teaching programs related to human nutrition and have demonstrated ability to obtain outside funding. Ph.D. or M.D. degree is required. Appointment will be tenure-track with a year's base salary. Send letter of interest with the expectation that the person will seek summer funding.

Application deadline is 15 January 1991 with anticipated starting date of 20 August 1991. CSU is an Equal Opportunity Employer. Application letters including curriculum vitae and names of four references should be submitted to: Endowed Chair Search Committee, Department of Food Science and Human Nutrition, Colorado State University, Fort Collins, CO 80523.

CHAIRPERSON, PHYSIOLOGY. The Medical College of Pennsylvania invites applications and nominations for the position of Chairperson, Department of Physiology. The department has recently been formed and has been targeted for significant expansion. The successful applicant is expected to teach both undergraduate and graduate courses in the area of specialization. The successful applicant will be expected to teach pathology in our lower-level core course and to provide more specialized instruction to the candidate's area of expertise in our upper-level program. The deadline for applications is 31 January 1991. Applicants must send their curriculum vitae, at least one copy each of two recent publications, a description of research interests, and names of at least three references who can be contacted:

Dr. Louis A. Hobson, Chair
Department of Pathology
University of Pennsylvania
P.O. Box 4045
Philadelphia, PA 19110

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents. The University of Victoria is committed to an employment equity program. Women are particularly encouraged to apply.

ENVIRONMENTAL HEALTH SCIENTIST/ DEPARTMENT CHAIR
The Department of Environmental Health, East Tennessee State University, academic year, tenure-track, associate professor. Rank and salary commensurate with qualifications and experience; fall 1991. Minimum qualifications include a Ph.D. in environmental health sciences or related field with administrative experience in higher education and eligibility for certification by a related professional board. Willingness to teach undergraduate and graduate students as necessary. Must be capable of integrating talents of both environmental and public health scientists. Evidence of successful research in environmental health and a record of outstanding extramural grant support required. Must lead and coordinate a department of seven faculty, 160 undergraduates, and 60 graduate students, in a variety of areas of concern.

Send current curriculum vitae, names, addresses, and telephone numbers of five references; and documentation of grant funds and research to: Dr. Guy R. Lanza, Dean, School of Public and Allied Health, East Tennessee State University, Box 21190-A, Johnson City, TN 37614. The deadline for receiving completed applications is 15 March 1991. An Equal Opportunity/Equal Accessory Action Employer.

CURATORSHIP
ARTHROPOD SYSTEMATICS
AMERICAN MUSEUM OF NATURAL HISTORY
The American Museum of Natural History invites applications for a tenure-track curatorial position in its Department of Entomology. The primary responsibility of the position is high productivity in original research and the systematic study of insects. The area of research specialization is otherwise unrestricted; salary and rank will be commensurate with experience.

Other responsibilities of the position include, but are not limited to, (i) curating of part of the department's collections of 16.7 million specimens, (ii) participation in the department's joint graduate student training programs with Cornell University and the City of University of New York, (iii) participation in museum committees and exhibitions programs, (iv) supervision of departmental support staff, and (v) future service, on a rotating basis, as departmental chairperson. The position will be available beginning July 1991.

Applications should be sent to Dr. Alan S. Bellack, Ph.D., Chair, Physiology Search Committee, Department of Psychiatry, The Medical College of Pennsylvania, 3200 Henry Avenue, Philadelphia, PA 19129. Equal Opportunity/Affirmative Action Employer.

CHAIR, DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY
Morehouse School of Medicine (MSM) invites applications and nominations for the position of professor and chair, Department of Microbiology and Immunology, which will become vacant in 1991 due to the impending retirement of the current chair. The department has recent funding including that for AIDS research and is part of an expanding, 4-year medical school dedicated to the training of minority physicians. Applicants are expected to have a record of significant research achievement, extramural funding, and substantial administrative/training skills. Experience in immunology is preferred. Applications/nominations should be submitted by 15 February 1991 to: Catherine C. W. Ph.D., Chair, Microbiology/Immunology Search Committee, Morehouse School of Medicine, 720 Westview Drive, S.W., Atlanta, GA 30310-1459.

MSM is an Equal Opportunity/Affirmative Action Employer.
Faculty Position in
ANOAL MOLE CULAR VIRIOLOGY
Purdue University
Department of Biological Sciences

We invite applications for a tenure-track position at the Assistant or Associate Professor level. The Department is particularly interested in candidates with research interests in, but not limited to, virus assembly, virus-host interactions, virus neutralization by antibodies and anti-viral agents directed against the virion. Candidates must have a Ph.D. degree or equivalent, postdoctoral experience and demonstrate exceptional promise in research. The successful applicant is expected to develop a vigorous, externally-funded research program, to participate in teaching a course in a relevant discipline, and to participate in graduate training. The appointment offers an excellent opportunity to join an expanding program in molecular virology and to join eleven other faculty members in the Markey Center for Structural Biology. Applications, including a curriculum vitae, names and addresses of at least three references, a statement of current research activities and a description of future plans should be sent to:

Professor John E. Johnson, Chair
Markey Faculty Search Committee
Department of Biological Sciences
Purdue University
West Lafayette, Indiana 47907 U.S.A.

Applications will be accepted until January 1, 1991, or until a suitable candidate is identified. Equal Opportunity/Affirmative Action Employer.

President
Science Service Incorporated
Washington, DC

Science Service, Inc., invites nominations and applications for the position of President. Founded in 1921, Science Service is a not-for-profit organization devoted to increasing public understanding of science, informing society's leaders of new developments in science and encouraging precollege students to become involved in scientific research. Among its many activities, Science Service publishes Science News and administers the Westinghouse Science Talent Search.

Candidates must have demonstrated an understanding of and commitment to science, as well as outstanding management skills. Publishing experience in science also is desirable, as is the capacity to develop proposals and obtain funding for new projects and activities from both government and industry sources. In particular, the trustees are interested in broadening and strengthening Science Service's programs for youth and in exploring opportunities to make use of new media.

Applications and nominations are requested by January 15, 1991. Inquiries, nominations or applications with resumes should be directed to the Chairman of the Search Committee:

Dr. H. Gayford Stever
c/o Carnegie Commission on Science & Technology
1616 P Street, NW, Suite 400
Washington, DC 20036

Science Service is an Equal Opportunity Employer. Minorities and women are encouraged to apply.

DIRECTOR
WESTERN HEMISPHERE COOPERATION PROJECT

Nation's leading general science and engineering association, based in Washington, DC., seeks a Director for its Western Hemisphere Cooperation Project (WHC). Director will manage cooperative programs with counterpart organizations in the Western Hemisphere; organize symposia on scientific topics of relevance to the region; monitor special issues in Latin American science; and raise funds to support WHC activities. Director will also serve as official liaison to Interciencia Association, a federation of 14 national scientific organizations in the Americas.

Minimum qualifications include: Master's degree in a field of science or in Latin American studies; 3-5 years' experience in managing international cooperative programs, or a combination of education and related work experience; excellent communication skills; experience in working with grant-making organizations; and "in-country" experience in one or more countries of the Western Hemisphere. Candidate must be fluent in English and be able to communicate effectively in Spanish. A knowledge of Portuguese is desirable. Please send letter expressing interest together with current resume and salary requirement to:

Debra Wright
Office of Human Resources, Suite 854
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005

Closing Date December 31, 1990
AAAS is an Equal Opportunity Employer.

GREAT PEOPLE MAKE A GREAT COMPANY

Bile Acid Biochemist

The Section of Biochemical Pharmacology in the Division of Pharmacokinetics and Drug Metabolism has an opportunity available for a scientist to study the enzymology and/or the transcriptional control of proteins involved in cholesterol catabolism/bile acid synthesis, and their role in the regulation of cholesterol homeostasis.

Candidates must have a Ph.D. degree in pharmacology, biochemistry, medicinal biochemistry, or related science; plus one year of postdoctoral experience or one year of experience in cholesterol catabolism/bile acid biosynthesis research, including publications.

As a valued professional at Burroughs Wellcome Co. you will receive a salary commensurate with your experience and be supported by the highest level of benefits in our industry. If you are interested in working for us, submit your resume, including position number in your cover letter, by January 14, 1991 to Burroughs Wellcome Co., Scientific Recruiting and Staffing, P.O. Box 62334-4, 3030 Comwallis Road, Research Triangle Park, NC 27709.

For more information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919)248-8347.

BURROUGHS WELLCOME CO.
An Equal Opportunity Employer
Scientist

At Genentech, our success in the biotechnology industry is a result of superb personnel combined with a state-of-the-art environment. To continue our achievements, we are seeking a Scientist in our Medicinal and Analytical Chemistry department.

You will conduct research and development for the characterization of recombinant DNA-derived polypeptides. This involves a significant amount of problem solving related to product characterization using both chromatographic and spectroscopic techniques.

A Ph.D. in Biochemistry and at least 2 years of postdoctoral study with a physical or analytical emphasis is required. Experience in the evaluation of protein conformation is highly desirable. The ability to conduct independent research and good communication skills are essential.

Genentech offers an extensive benefits package which includes child care facilities, free health club membership, an employee stock purchase plan and fully paid medical/dental/vision coverage.

For immediate consideration, please send your C.V. to Nancy Symonds, Genentech, Inc., Human Resources Dept. NS/EDC, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.

Genentech, Inc.
Genentech, Inc.
Genentech, Inc.

POSITIONS OPEN

CHAIRPERSON
DEPARTMENT OF ANATOMY AND CELL BIOLOGY

Nominations and applications are invited for the position of professor of Anatomy and Cell Biology at the East Carolina University School of Medicine. The department consists of 14 full-time faculty members for the training of medical, allied health, and graduate students. The primary research interests are in endocrine physiology/cell biology, and the neurosciences. The department is well-funded and well equipped. We are seeking candidates with an outstanding record of research achievement, proven administrative and leadership skills, and a history of achievement, proven administrative and leadership skills, and a history of quality teaching in any of the anatomical disciplines. Candidates should have a doctorate in anatomy or a related discipline, experience in an academic medical center, and a record of scientific excellence. Salary and benefits are nationally competitive. Candidates should submit a resume and the names and addresses of three references to:

Dr. Paul V. Phibbs, Chairman
Anatomy and Cell Biology Search Committee
Department of Microbiology and Immunology
East Carolina University School of Medicine
Greenville, NC 27848-4354

Screening for this position will begin on 1 January 1991. An Equal Opportunity/Affirmative Action University. Federal Law requires proper documentation of identity and employability at the time of employment. It is requested that this documentation be included with your application.

DIATOM SYSTEMATIST

The Academy of Natural Sciences of Philadelphia seeks an outstanding diatom systematist for the career-track position of ASSISTANT CURATOR. Qualification:

(i) Ph.D. in biology, botany, or closely related discipline;
(ii) comprehensive knowledge of diatom taxonomy and nomenclature;
(iii) broad understanding of ecology and community dynamics as they relate to the taxonomy and systematics of freshwater diatoms;
(iv) demonstrated excellence at the phylogenetic level in phylogenetic systematics;
(v) ability to attract grant support for independent research program. Research capabilities that utilize herbarium collection strengths and complement current programs in bioscience, eco-taxonomy, and current cladistic approaches to centric diatom systematics preferred, along with hands-on experience in curation of a diatom herbarium. This position includes opportunities for adjunct appointment and graduate students at local universities, especially The University of Pennsylvania. Send curriculum vitae, teaching/graduate student, curricular vita to: Dr. M. Mangilao, Chairperson, Department of Biology, University of Guam, Mangilao, Guam 96923.

DIAN OF ARTS AND SCIENCES
KANSAS STATE UNIVERSITY

The dean is an advocate and leader for the college, with responsibility for programs, budgets, and personnel. Requirements include a record justifying appointment as a full professor; significant experience in academic administration; effectiveness as an advocate for diverse disciplines; ability to work effectively with alumni; and a concern for students, Affective Action, and faculty involvement in governance. The position is open 1 July 1991, and screening begins 15 January 1991. Send application to: M. Davis, Chair, Search Committee, Anderson Hall 108, Kansas State University, Manhattan, KS 66506 with curriculum vitae and a list of at least three academic references.

An Equal Opportunity/Affirmative Action Employer.

BIOLOGY FACULTY POSITION; 1991, fall. Genetics, cell and molecular biology, tenure track. ASSISTANT PROFESSOR, beginning September 1991. Earned doctorate required as well as a strong commitment to teaching at the undergraduate level. Apply with resume, graduate transcripts, list of publications, description of research interests and three letters of recommendation by 15 January 1991. Send application to: Dr. D. L. Schroeder, Department Chair, Biology Department, College of St. Scholastica, 1200 Kenwood Avenue, Duluth, MN 55811. The College of St. Scholastica is a Benedictine liberal arts college, and an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION
IN BIOCHEMICAL PHARMACOLOGY

The Department of Pharmacology at the University of Alabama at Birmingham invites applications for a position of ASSISTANT/ASSOCIATE PROFESSOR to complement faculty with research interests in cancer, AIDS, and AIDS-related opportunistic infection. Send curriculum vitae, supporting data, and names of three references to: Robert B. Diasio, M.D., Chairman, Department of Pharmacology, Box 600, Volker Hall, University of Alabama at Birmingham, Birmingham, AL 35294. Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF GUAM
BIOLOGY FACULTY POSITION. ASSISTANT/ASSOCIATE PROFESSOR to teach at least two of the following: genetics, cell physiology, biochemistry, developmental biology, plant diversity, and possibly to participate in principles of biology. An initial 3-year contract begins August 1991. Ph.D. required. Minimum starting salary: $33,634 per academic year. Application deadline: 16 January 1991. Submit letter of application, up-to-date résumé, official graduate degree transcripts sent directly from awarding institution, unofficial copies of significant transcripts, names and addresses of three references, and research interests to: University of Guam, Personnel Services, UOG Station, Mangilao, Guam 96923. An Affirmative Action/Equal Opportunity Employer.

COGNITIVE NEUROSCIENCE. Dartmouth Medical School is considering four SENIOR FACULTY APPOINTMENTS in the broad area of cognitive neuroscience with particular interests centered on neuroendocrine, sensory and motor control, and neurobehavior. The new positions will have shared appointments in the Program in Cognitive Neuroscience and in relevant basic science departments. Interested parties should send curriculum vitae to: R. G. Gazziogala, Department of Psychiatry, Dartmouth Medical School, Hanover, NH 03756.

BIOLOGY. Ph.D. and teaching experience required. Responsibilities include teaching, helping revise curriculum, advising students, and serving on university committees. Preference is for a broadly trained person with specialization toward animal/cellular fields. LeTourneau University is an independent evangelical Christian university and seeks trained professionals who possess a maturing Christian faith and are committed to the mission of an evangelical residential, Christian university. Send résumé to:

Dr. H. Glenn Sumrall
Vice-President for Academic Affairs
LeTourneau University
P.O. Box 7001
Longview, TX 75607–7001

TENURE-TRACK FACULTY POSITIONS
CENTER FOR CANCER RESEARCH
AND DEPARTMENT OF BIOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Candidates are sought for the tenure-track positions, at the level of ASSISTANT, ASSOCIATE, OR FULL PROFESSOR, in the fields of cell biology and immunology.

Candidates should have significant research accomplishments and should be developing creative approaches to solve complex problems in contemporary cell biology and immunology, including the biochemistry and molecular biology of cell cycle control and proliferation, cytoplasmic organization, and intracellular signaling. Faculty members in the cancer center conduct active research programs, and participate in the educational activities of the biology departments.

Interested applicants are asked to send curriculum vitae and bibliography, a brief description of research interests, and the names of at least three references to:

Dr. Frank Solomon
Professor of Biology
Cancer Center Search Committee Chairperson
Building 17-2
Massachusetts Institute of Technology (MIT)
Cambridge, MA 02139

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

SCIENCE, VOL. 250
**POSITIONS OPEN**

**FACULTY**

ENVIRONMENTAL SCIENCE. The Department of Urban and Regional Planning at the University of Illinois at Urbana-Champaign seeks an ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR, (tenure track) beginning August 1991. Education and experience appropriate to the following areas are required: salary negotiable. Joint appointments with related departments possible. Ecological systems pertinent to human settlements; aquatic ecology, hydrology, ground water, or water quality preferable; research and teaching interests must develop environmental science findings to planning; prefer Ph.D. in environmental science, or related field.

For full consideration send by 7 January 1991 your curriculum vitae, two examples of your work (papers, course syllabi, design projects), and names, addresses, and telephone numbers of three references to: Search Committee, Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign, 907/5 West Nevada, Urbana, IL 61801. Telephone: 217-244-5397.

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

**BIOLOGIST.** Ph.D. with teaching experience and primary expertise in cell and molecular biology; to teach 12- to 15-hour load, at least half in introductory courses for majors and nonmajors. Send letter of interest, curriculum vitae, and three letters of recommendation to: Dr. T. G. Pickles, VPAA, Northern State University, Aberdeen, SD 57410.

**FACULTY POSITION IN COMPUTATIONAL CHEMISTRY**

The Medicinal Chemistry Department invites applications for a tenure-track ASSISTANT PROFESSOR position. The working environment represents a unique opportunity to develop a research program encompassing the application of molecular modeling to medicinal chemistry research and provides an excellent opportunity for interaction with the Biomedical Engineering Center, the Supercomputer Institute, and with other faculty at the university. Candidates will possess a doctoral degree and at least 1 year of postdoctoral experience in a chemically oriented discipline and have a strong background in semi-empirical quantum mechanics and molecular mechanics as applied to molecules of biological relevance. Experience in 3-D molecular modeling of small molecules and ligand-macromolecular recognition is essential. The successful candidate will be expected to initiate an active research program and teach at the undergraduate and graduate levels. Send application letter, résumé, proposed research program, and the addresses and telephone numbers of three references by 15 February 1991 to: Professor Philip S. Portugheze, Department of Medicinal Chemistry, University of Minnesota, 308 Harvard Street S.E., Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Educator and Employer, and specifically invites and encourages applications from women and minorities.

**BIOLOGY DEPARTMENT** at Hartwick College seeks an ECOLOGIST for a full-time, tenure-track position beginning September 1991. Commitment to undergraduate teaching and Ph.D. is required. Responsibilities include teaching ecology (upper-level course for majors), evolution, animal behavior, forest ecology, and a course in area of expertise, and to direct undergraduate research in ecology. A strong statistical background is preferred. Send letter of application, résumé, and three letters of reference by 4 January 1991 to: Dr. Robert R. Smith, Chair, Department of Biology, Hartwick College, Oneonta, NY 13820. An Equal Opportunity Employer.
**OPPORTUNITIES**

**RESEARCH OPPORTUNITIES IN MOLECULAR AND CELLULAR BIOLOGY**

Amgen, a recognized and innovative leader in the discovery and development of human therapeutic products through applied biotechnology, is actively seeking scientists at BS, MS and Ph.D. levels to conduct research within our Colon Biology program. The objectives of this program will be defining, isolating, cloning and characterizing protein factors involved in the growth and differentiation of the colonic epithelium.

**RESEARCH SCIENTISTS Dept. #549**

Candidates for Research Scientist positions must have a Ph.D. in molecular or cellular biology and 2 to 5 years’ relevant postdoctoral experience. Candidates must have a strong publication record reflective of their achievements.

Applicants for Molecular Biology positions should have a strong foundation in molecular biology and related techniques including the construction and screening of cDNA libraries. Experience in expression cloning is particularly valuable.

Candidates for Cellular Biology positions must have experience in bioassay development and protein purification. This investigator will be responsible for establishing appropriate bioassays for growth and/or differentiation factors and participating in their isolation and characterization. Experience in intestinal epithelium is particularly desirable.

**POSTDOCTORAL SCIENTIST Dept. #550**

Candidates for postdoctoral positions must have a Ph.D. in molecular biology or a related discipline and be familiar with routinely used methodologies in cDNA cloning.

**RESEARCH ASSOCIATES Dept. #551**

Minimum qualifications for these positions include a BS in an appropriate field with two years’ research experience in molecular and cellular biology. Experience in basic recombinant DNA methodologies and cell culture techniques is highly desirable.

Amgen offers a stimulating and challenging research environment on the leading edge of biotechnology. Our need for these positions reflects an ever increasing commitment to the development of significant products for human health care through excellence in research.

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 complete CV, in confidence, to:

**AMGEN, INC.**

Recruitment, Dept. # (please specify)

Amgen Center

Thousand Oaks

CA 91320-1789

Equal Opportunity Employer

**Faculty Positions In**

**MOLECULAR NEUROBIOLOGY**

Applications are invited for tenure track faculty positions at the Assistant Professor level. Successful candidates will occupy new laboratories on the neurobiology floor of the Ohio State Biotechnology Center and hold an academic appointment in the College of Biological Sciences, Medicine or Pharmacy. Applicants should demonstrate exceptional potential to develop strong research programs that apply recombinant DNA methodology to address significant problems in neurobiology. The Ohio State University has made a major commitment to establish an outstanding interdisciplinary program in molecular neurobiology that is reflected by the quality research facilities and highly competitive start-up funds and salary that accompany these faculty positions. The Ohio State University is the flagship institution of the State higher education system. It is located in Columbus, the state capital, a growing, yet highly affordable metropolitan area of about 1.3 million people, that was recently named by Newsweek magazine as one of the country's top 10 cities.

Applicants should submit a curriculum vitae, statement of research plan and names, addresses, and telephone numbers of three references by January 15, 1991 to: Dr. Anthony Young, Chairperson, Molecular Neurobiology Search Committee, Ohio State Biotechnology Center, 207 Rightmire Hall, 1060 Carmack Rd., Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

**THE OHIO STATE UNIVERSITY**

**POSTDOCTORAL SCIENTIST**

Wyeth-Ayerst is a recognized world leader in the production of a wide range of highly advanced pharmaceuticals. We currently have an opportunity for a Postdoctoral Scientist to join our Microbiology and Biotechnology Division in Radnor, PA, an ideal location just outside of Philadelphia.

Become an integral member of our research team involved in vaccine and/or CNS research. We want to talk with you if you have a Ph.D. in immunology, biochemistry, or a related field with experience in immunologic techniques, protein purification and tissue culture.

Wyeth-Ayerst offers an attractive salary and benefits which are immediately available for a one year appointment, and can renewed for another year. Qualified candidates are invited to submit curriculum vitae to:

Project Leaders
Science and Technology

The New York Blood Center has excellent positions available immediately in the following areas:

Project Leader/Hematology and Cell Biology
Ph.D. in Cell Biology, Pathology or related areas with a minimum 2 years of post-doctoral experience. Tissue culture experience necessary. Publications.

Project Leader/Virology and Molecular Biology
Ph.D. in Molecular Biology or Virology with a minimum 2 years of post-doctoral experience. Publications.

This laboratory is dedicated to Research and Development of technologies applied to Transfusion Medicine. The positions entail project management, laboratory administration, experimental work, publications.

There is extensive opportunity for interaction with the Research Staff and Operations Staff of the New York Blood Center.

In addition to working within a stimulating environment, we offer the right individuals 5 weeks vacation, 100% tuition reimbursement, medical/dental coverage and excellent pension plans. Qualified applicants are invited to submit CV and references to: The New York Blood Center, Research/Human Resources, 150 Amsterdam Ave., NY, NY 10023. Equal opportunity employer M/F.

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Senior Research Fermentation Biochemist

Merck & Dohme Research Laboratories is currently offering a Ph.D. position in the Department of Cellular and Molecular Biology at the research facilities in West Point, PA. The successful candidate will be working in the newly renovated fermentation area equipped with a computer-coupled data acquisition system. The position requires innovative design and analysis of fermentation processes with recombinant microorganisms.

You will interact with a variety of scientists ranging from molecular biologist and biochemists to biochemical engineers, with the goal of achieving improved fermentation processes especially in optimizing fed-batch techniques. You are encouraged to publish results and attend scientific meetings.

The position requires a Ph.D. in microbiology, biochemistry, biochemical engineering or equivalent, and appropriate research experience. A background in molecular biology, biochemistry and biochemical engineering is desirable.

Excellent salary and benefit programs accompany this position at our West Point Laboratories located 25 miles northwest of Philadelphia.

Please send curriculum vitae with cover letter to: Personnel Manager, Ad #B-36, Research Personnel, WP42-2, Merck & Dohme Research Laboratories, West Point, PA 19486.

EEO/AA/VH/Employer

Merck & Co., Inc.

Institute for Biomolecular Science
University of South Florida

GRADUATE FELLOWSHIPS (MULTIDEPARTMENTAL)

- MOLECULAR VIROLOGY AND IMMUNOLOGY
- MICROBIOLOGY
- BIOTECHNOLOGY
- BIOCHEMISTRY & MOLECULAR BIOLOGY
- CELL BIOLOGY

The UNIVERSITY OF SOUTH FLORIDA has recently established an INSTITUTE FOR BIOMOLECULAR SCIENCE with emphasis on research in the above areas. Fellowships include $12,000 stipend PLUS tuition waiver PLUS travel to a national meeting. For further information contact:

Dr. Daniel V. Lim
Institute for Biomolecular Science
University of South Florida
LIF 169
Tampa, FL 33620-5150
POSITIONS OPEN

MATHEMATICAL STATISTICIAN

To develop design of finite element model of human brain and skull, and design algorithms for solving equivalent dipole models and conduct simulation studies. Candidates should have a Ph.D. degree in mathematics or related field and working knowledge of UNIX. Experience with electromagnetic theory would be helpful. Please send resume to: Box 138, SCIENCE.

POSITIONS OPEN

POSTDOCTORAL POSITIONS. Available in the areas of molecular, cell, and developmental biology. Applications are invited from qualified candidates, and a brief description of research interests to: The Postdoc- toral Program, EC/Department of Molecular Biology, Lewis-Lawrence Medical Laboratory, 1002 East Avenue, Suite 316, Nude, CO 80267. UCSC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. For 2 years in alcohol research available immediately. Studies include the hormonal regulation of expression of genes involved in ethanol metabolism, purification and molecular cloning of factors controlling expression of the same genes. U.S. citizen or permanent resident. Send letter of application and curriculum vitae, to: Dr. R. D. Page, Department of Pharmacology, University of California, San Francisco, CA 94143. UCSC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL TRAINEESHIP

Two NIH/NRSA-funded postdoctoral positions are available immediately at the Lawrence Berkeley Laboratory, to conduct lipoprotein and atherosclerosis research. Project areas include gene expression in transgenic mice, mechanisms of lipoprotein oxidation, and cell biology of reverse cholesterol transport. Requires a recent Ph.D. in molecular biology or cell biology as appropriate. Applicants must be U.S. citizens or permanent residents. Send letter of application, curriculum vitae, and references to: Dr. C. S. Selzenick, Director, Department of Cellular and Structural Biology, University of Colorado Health Sciences Center (UCSHC), 4200 East 9th Avenue, Suite 316, Denver, CO 80262. UCSC is an Equal Opportunity/Affirmative Action Employer.

THREE POSTDOCTORAL POSITIONS available immediately on NIH Training Grants to study molecular mechanisms of chemical and viral carcinogenesis and molecular, cellular, and immunological aspects of eukaryotic gene control. The program is situated in the newly constructed Norris Cancer Center which contains state-of-the-art microchemical, microinjection, flow cytometry, pharmacological, analytical cell, and computer core facilities. Training faculty are: Dan Brock (Regulation of oncogene function), Robert Deans (Molecular biology of S1 activation), Gunther Deernek (Molecular and cellular immunology); Yuen K. T. Fung (retinoblastoma); Myron Goodman (biochemical mechanisms of feline and canine sarcoma viruses and murine leukemia virus). Candidates must be U.S. citizens. Send letter of application, curriculum vitae, and addresses of three references to: Dr. Ronald M. Kraus, Program Leader, Molecular Medicine Program, Room 100, Lawrence Berkeley Laboratory, Donner Labora- tory, 1 Cyclotron Road, Berkeley, CA 94720. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available immediately to study the molecular genetics of DNA strand break repair in mammalian cells using various repair deficient mutants. One year of recent experience in molecular biology and/or biochemistry is preferred. We offer a competitive salary and benefits package. Send statement of research interest, curriculum vitae, and three references to: Dr. Wayne R. Landolph, The Lankenau Medical Research Center, Lancaster Avenue west of City Line, Philadelphia, PA 19151-0598, or call: 215-645-8400. Equal Opportunity Employer. A member of the Main Line Health family of hospitals.

POSTDOCTORAL POSITION. Available immediately, for up to 4 years, to study stress-induced alterations in rat brain serotonergic function, to define neurotransmitter and steroid mediators and the molecular basis for the stress-induced biochemical changes within serotonergic neurons. Project uses biochemical, pharmacological, and stereotoxic approaches. Send curriculum vitae and three references to: Dr. M. C. Biber, Department of Physiology, Medical College of Virginia, Virginia Commonwealth University, Rich- mond, VA 23298-0581. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Host Defense Biology. Position is available to study mechanisms underlying the synergistic action of IgM antibodies and the alternative complement pathway in promoting bacterial phagocytosis and killing by neutrophils (J. Exp. Med. 164, 777; Rev. Infect. Dis. 12, 516). There is opportunity for promotion to junior faculty status. Training in phagocy- biology is desirable. Send curriculum vitae and three letters of recommendation to: Dr. D. B. Dressman, Department of Internal Medicine, Division of Hematology-Oncology, University of Minnesota, Minneapolis, MN 55455. Applications should be sent immediately and will be considered until the position is filled. An Equal Opportunity/Affirmative Action Employer.

The Basic Science Departments (Cell Biology and Neuroanatomy, Biochemistry, Microbiology, Pathology, Pharmacology, Physiology) Medical School, University of Minnesota, periodically have openings for POST- DOCTORAL TRAINING. For information about possible openings in these programs, write, specifying department of interest to: University of Minnesota Medical School Box 293 UMHC 420 Delaware Ave., Suite 203 Minneapolis, Minnesota 55455 Attention: James C. Nelson

The University of Minnesota is an Equal Opportunity Employer. Applications are invited from qualified women and minorities. Please contact: Dr. Bob Brown; telephone: 617-726-5750.

POSITIONS OPEN

BEATRICE WATSON PARENT POSTDOCTORAL RESEARCH FELLOWSHIP

The Institute for Astronomy, University of Hawaii, solicits applications for the 1991 award of the Beatrice Watson Parent Fellowship, which is supported by endowed funds. The successful applicant will be based in Honolulu, and will be free to pursue research of her/his choosing in astronomy or related fields. Research areas which are currently supported include (to name a few): dark matter and structure, quasars, galaxies, the evolution of the universe, and the origins of life. Applications are being sought from highly qualified, predoctoral students who are U.S. citizens or permanent residents. Women are especially encouraged to apply.

Applications should be submitted to the Director, Beatrice Watson Parent Fellowship, Institute for Astronomy, University of Hawaii, 2680 Woodlawn Drive, Honolulu, HI 96822. Applications will be considered until September 1, 1991. Applications should include a letter of recommendation from a former or current academic or professional mentor. A letter of not more than one page should describe the student's research experience and interests, and explain why the student should be considered for the fellowship. Note: Applications will be considered even if received after September 1, 1991, but will be held for the next year of competition. Further information about the fellowship may be obtained from: Dr. R. Brown (Day Neuromuscular Research Laboratory, MGH), J. Guetta (Neurogenetics Unit, MGH), and R. Hortz (Biology, University of Minnesota, Medical School, St. Paul), or from posts@astro.umn.edu. Applications are requested by: April 1, 1991. The fellowship is available for the period 1991-1993.

WILL'S EYE HOSPITAL

THE R. ROBB MCDONALD, M.D.

AND DAVID MEYER, M.D.

POSTDOCTORAL RESEARCH FELLOWSHIPS

Applicable immediately for studies in ocular inflammation and tumors. Research experience in molecular biology and/or pharmacology is required. Send letter of application using anonymous DNA markers, preparation and mapping of cosmids and new probes from selected chromosomal regions, and PCR analysis of highly polymorphic regions of DNA in ALS pedigrees. The study will encompass two conventional linkage analysis data to implement and novel linkage strategies such as homozygosity mapping. The project is directed collabora- tively by Dr. R. Brown (Day Neuromuscular Research Laboratory, MGH), J. Guetta (Neurogenetics Unit, MGH), and R. Hortz (Biology, University of Minnesota, Medical School, St. Paul). The fellowship is located in a new research facility in the Neuroscience Center in Charlestown. Excellent technical backup is available. The fellowship is available for the period 1991-1993. Further information and applications should be sent to: Dr. Rob Brown; telephone: 617-726-5750.
National Institutes of Health

Research Scientist and Postdoctoral Fellows

TASTE AND SMELL

Research Scientist (D.M.D., M.D., Ph.D., D.D.S.) sought to head a new research project on Taste and Smell. Areas of investigation will include the nature of the cell surface receptors, mechanisms of signal transduction and membrane channels. Training in molecular biology, protein chemistry and cell biology is desirable. Positions for post-doctoral fellows also are available. Salary is commensurate with experience. Send Curriculum Vitae and names of references to:

Dr. Lois Salzman, Deputy Director Intramural Research Program National Institute of Dental Research National Institutes of Health 9000 Rockville Pike Building 30, Room 121 Bethesda, MD 20892

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UNIVERSITY OF VIRGINIA

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- Signal Transmission and Processing, including second messengers
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- Pertinent Macromolecular Structures

Research in these areas is supported by university-wide, multidisciplinary programs of the Molecular Biology Institute, the Biodynamics Institute, and the university's newly-organized and funded Markey Center. Several new positions will be filled in each of the coming three years. Emphasis is upon assistant Professorships, but senior appointments are also planned.

Applications and nominations from qualified scientists are cordially invited. Applicants should provide a full academic and research résumé and the names and addresses of three referees. Please write to:

Markey Center Search Committees Center for Advanced Studies University of Virginia Charlottesville, VA 22903-3196

The University of Virginia is an Affirmative Action, Equal Opportunity Employer.

BIOLOGY

The Department of Biology at the University of Southwestern Louisiana (enrollment, 16,000) invites applications for three tenure-track positions in support of the doctoral program in Environmental and Evolutionary Biology. Faculty are expected to develop an active research program, participate in undergraduate and graduate education, and direct graduate research. The biology professorial faculty currently numbers 27 with research interests ranging from molecular to ecosystem studies. USL has an exceptionally well-equipped Electron Microscopy Center and a Center for Advanced Computer Studies. Other resources include the Primate Research Center, the Center for Crustacean Research, the Louisiana Universities Marine Consortium (LUMCON) marine laboratory and research vessels, and affiliation with the U.S. Fish and Wildlife Service's National Wetlands Research Center. The department has recently been awarded top ratings by an outside panel of nationally prominent reviewers.

We are seeking qualified individuals in the following areas:

CELLULAR or NEUROBIOLOGY - research interests primarily non-medical; ability to teach undergraduate immunobiology.

ENVIRONMENTAL and RESOURCES BIOLOGY - research interests may include, but are not limited to, remote sensing, landscape modelling and restoration, wildlife population dynamics and nutrition, and biodiversity, especially in coastal wetlands.

TOXICOLOGY - research interests in toxicology of freshwater or marine systems.

Send curriculum vitae, selected reprints, a concise statement of research goals, and names, addresses and telephone numbers of three referees. Review of applications will begin 15 January 1991 and continue until positions are filled. Direct application to: Faculty Development Search Committee, Department of Biology, University of Southwestern Louisiana, Lafayette, LA 70504-2451. AA/EO.

Environmental Microbiologist

Applications are invited for a tenure-track position at the Assistant Professor level in the Department of Biology beginning fall 1991. The Department is seeking a person to develop an Environmental Studies Program and related courses such as aquatic biology and toxicology and teach an introductory microbiology course. The candidate should have a Ph.D. in Microbial Ecology/Environmental Microbiology or environmentally related area, have a strong commitment to undergraduate teaching, and have a desire to develop a research program with undergraduates. Grant writing experience is desirable but not necessary. Minorities and women are encouraged to apply.

To apply, submit letter of application, curriculum vitae, description of research interests, transcripts, and three current letters of reference by January 15, to Martha A. Farver-Apgar, Director of Personnel, Elizabethtown College, One Alpha Drive, Elizabethtown, PA 17022.

AA/EO

RESEARCH SCIENTIST

Berwick Corporation, a rapidly growing biotechnology Company has an excellent opportunity available for a research scientist at its Warminster, PA facility in suburban Philadelphia.

You will be involved in product development and technical marketing support for the nucleic acid purification product line of the company's Life Science Division. You will have a strong background in biochemistry, molecular biology or genetics and experience in HPLC, gel electrophoresis, and recombinant DNA techniques.

The successful candidate will have a Ph.D in a life science, excellent verbal, written and interpersonal communication skills. We offer a competitive salary and comprehensive benefit program. For consideration, please forward your resume, with salary requirements to: Berwick Corporation, Box 2548, Warminster, PA 18974.

AA/EO
POSITIONS OPEN

SMITHSONIAN POSTDOCTORAL FELLOWSHIPS IN MOLECULAR EVOLUTION AND PHYSIOLOGY

Postdoctoral fellowships in molecular evolution and plant physiology are available for research to be conducted at one or more of the following Smithsonian Institution bureaus: National Museum of Natural History (Washington, D.C.); National Zoological Park (Washington, D.C.); Smithsonian Tropical Research Institute (Panama). In addition, a portion of the research may be conducted at the Marine Environmental Research Center (Maryland). Stipends are $24,000 annually, including travel. Tenures are from 12 to 24 months. Deadline: 1/31. For information and applications, write: Office of Fellowships and Grants, Desk MS, Smithsonian Institution, Washington, DC 20560.

POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS in endocrinology, metabolism, diabetes, and obesity. The University of Michigan School of Medicine invites applications for a three-year postdoctoral fellowship position in the Diabetes Research Unit (Chairman: Dr. R. D. de Fronzo). The Research Unit is an interdisciplinary group of faculty from several departments and units of the University, including the Departments of Medicine, Surgery, Physiology, Epidemiology, Biology, and Biostatistics. The Unit is involved in a variety of research projects, including the study of the molecular basis of diabetes and its complications. Applicants should have a Ph.D. or M.D. degree. Stipends are $24,000 annually. Deadline: 1/31. For information and applications, write: Office of Fellowships and Grants, Desk MS, University of Michigan School of Medicine, Ann Arbor, MI 48109.

RESEARCH FELLOWSHIPS

Positions available in basic research (cell biology, molecular biology, biochemistry, physiology) M.D.'s, M.D.-Ph.D.'s, and Ph.D.'s eligible. Must be U.S. citizens or permanent residents. Contact: William R. Brown, M.D., Gastroenterology Division, B-158, University of Colorado School of Medicine, 4200 East Ninth Avenue, Denver, CO 80262; telephone: 303-392-8020, ext. 3130; FAX: 303-320-0680. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR TUMOR BIOLOGY

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION. Available immediately for candidate with background in one or more of the following areas: molecular biology, genetic engineering, virology, immunology, biochemistry, or radiation biology. Candidate will participate in research on the oncogenic mechanisms and growth control of radiation-resistant human cancers. Ongoing projects involve antisense-directed gene inhibition strategies, signal transduction, and PCR-based evaluation of the oncogene function in normal versus tumor cells. Please send curriculum vitae to: Dr. U. Kasid, Associate Professor, Department of Radiation Medicine, The Vincent T. Lombardi Cancer Research Center, Georgetown University Medical Center, 3800 Reservoir Road, N.W., Washington, DC 20007. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. For university in northeastern Ohio. To conduct advanced research on liquid crystals using neutron NMR spectroscopy. The research encompasses the following three projects: to study the effects of confinement (cylindrical and spherical cavities) on liquid crystal properties, surface-induced orientational order, and phase transition and self-diffusion of liquid crystal; to study the electro-optical properties of polymer-dispersed liquid crystal, using laser light scattering techniques; and to do computer simulation of textures of polymer-dispersed liquid crystal droplets and NMR spectrum of liquid crystal. Must have Ph.D. in physics and academic program must have included one course each in quantum mechanics, statistical physics, advanced theoretical physics, solid-state theory, advanced optics, and condensed matter. Must have ability to function effectively by academic course work and/or publications and/or employer testimonials to conduct research using deuterium NMR, 2H nuclear magnetic resonance, and 2H NMR. Must have knowledge of legal authority to work permanently in the United States. Send resume and course transcript in duplicate (no calls) to: J. Davies, JOM 1242090, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE IN AQUATIC BIOLOGY. Available immediately to study toxic substances and microbial, fisheries, or zooplankton ecology. Experience in the flux of toxic substances is particularly desirable. The successful applicant will participate in funded Great Lakes and watershed programs that have developed to develop independent research allied to these projects. Salary: $25,000. To apply, please send résumé, summary of research experience, and names of three references to: Dr. Ronald Ward, Water Resources Institute, Grand Valley State University, Allendale, MI 49401. Equal Opportunity/Affirmative Action Employer.

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Food and Feed Safety Research Unit, Southern Regional Research Center (SRRC), is seeking a POSTDOCTORAL RESEARCH ASSOCIATE to work for 2 years with a team developing techniques to alter populations of Aspergillus flavus in agricultural fields. The work may include fundamental and applied aspects of the project. Some knowledge of serology and/or molecular biology would be useful. Scale: GS-11 ($29,891). For information on the research program, contact: Dr. Peter J. Corty, USDA-ARS, SRRC, P.O. 15687, New Orleans, LA, 70171; telephone: 504-286-4391. For procedures/forms, contact: Judy Harrington, 310-344-1506. Mark responses S-0-010. USDA is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

A postdoctoral position is available 1 January 1991 to study microtubule assembly dynamics in the vertebrate brain (at the University of Kansas) and the squid giant axon (at the Marine Biological Laboratory, Woods Hole, Massachusetts). Projects involve biochemical, cellular, and video-enhanced optical approaches to identify and characterize endogenous inhibitors of microtubule assembly and/or regulators of dynamic instability. Candidates should have a Ph.D. and experience in relevant biochemical techniques. The salary range for this position is $22,000 to $26,000 depending upon experience. Please send curriculum vitae, brief statement of research experience and interests, and three letters of reference to: Dr. Kathy A. Suprenant, Department of Physiology and Cell Biology, 4010 Haworth Hall, University of Kansas, Lawrence, KS 66045. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITIONS

Available to study the toxic effects of ethanol on biological systems. The focus is on molecular and biochemical mechanisms of the acute and chronic effects of ethanol on cell culture cell models as a model. The well-funded, productive laboratory is part of a diverse interdisciplinary group including NIH-funded liver and alcohol centers investigating basic mechanisms of cellular injury. Strong background in cellular physiology and practical experience in tissue culture is required. Contact: 503-320-0680 or fax: 503-320-0680. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE RESEARCH SCIENTIST

Non tenure-track research positions available in the Department of Physiology and Cellular Biophysics. Candidates must possess a Ph.D. degree and at least 3 years of postdoctoral experience. Areas of interest are (i) biochemical studies of endothelial biology, requiring experience in hybridoma antibody production, protein chemistry, and cell culture; (ii) studies of the early embryological development of the mammalian central nervous system, requiring experience in embryological techniques, in vitro cell culture, immunohistochemistry, and protein biochemistry; and (iii) studies of molecular mechanisms of inflammation involving membrane biochemistry, cell, and molecular biology, requiring experience in membrane biochemistry, cell, and molecular biology. Send application with full curriculum vitae to: Dr. David C. Silverstein, Chairman, Department of Physiology and Cellular Biophysics, Columbia University, 630 West 166th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

Senior Staff Fellowship

Senior Staff Fellowship in clinical psychiatry and molecular genetics, National Neurogenetics Branch, NIMH Intramural Program. Opening for a psychiatrist or other behavioral scientist with experience in molecular scanning methods, particularly those demonstrating genetic gene electrophoresis, and clinical psychiatric genetics, including linkage studies, to pursue investigations on disease mutations and linkage in medical disorders, including psychiatric disorders such as schizophrenia, manic-depressive illness, Alzheimer's disease.

Requirements: M.D. and at least three years of psychiatric residency, and at least one research fellowship experience related to this position, or equivalent doctoral training, clinical, and research experience in another related discipline. U.S. citizenship or permanent residency.

Salary: depends on education and experience. Federal salary range for Senior Staff Fellowships is $32,000 to $54,772.

Contact: Elliot S. Gershon, M.D., Chief, Clinical Neurogenetics Branch, National Institute of Mental Health, National Institutes of Health, Building 10-3N218, 9000 Rockville Pike, Bethesda, Maryland 20892; Phone: (301) 496-3465

Position can begin July, 1991

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New York, NY 10036
Applications are invited for about 30 Royal Society University Research Fellowships tenable in the first instance for five years from 1 October 1991 (or slightly later in the academic year 1991–92), with two possible further renewals for three and then two years. The Fellowships are available in any branch of science, including agriculture, medicine, mathematics, engineering and technology. The primary criterion for selection will be scientific merit based on record so far and on future potential. Some account will also be taken of the facilities and intellectual environment being offered by the prospective host department. Salaries will be on the nonclinical university scale, with London Allowance where appropriate. Annual research expenses (a sum of up to £10000 may be sought in 1991–92) will be available, together with return travel and a contribution to baggage costs for successful applicants from overseas and their families.

Applicants should be Scientists normally with between 3 and 10 years of post doctoral research experience. They must be British Citizens and propose to hold the fellowships in universities or polytechnics in the United Kingdom. Those who already have substantive posts in these places will not normally be considered. Previously unsuccessful applicants are welcome to apply again if still eligible, but should make fresh applications and arrange for updated referee’s statements.

Application details are available (on written request only) from Mrs. U. M. A. Tokle, The Royal Society, 6 Carlton House Terrace, London, SW1Y 5AG (FAX: 071-930 2170). Closing date 15 February 1991. Application forms will not be available after 1 February and no application arriving after 4 p.m. on 15 February will be considered.
RESEARCH ASSOCIATE. For University in Western Oregon to conduct research: chemical synthesis and characterization of organic molecules as probes and reagents for biological and medical studies, synthesis and modification of conducting polymers, development of processes for chemical construction and fabrication of microsized objects, and development of conducting polymers, and generation of submicron circuits using electron beam lithography. Job requires a Ph.D. in chemistry and familiarity with organic synthesis techniques, HPLC, high field FT-NMR, FT-IR, UV, and MS techniques for characterization of new compounds, polymer and microcircuit fabrication. Submit curriculum vitae, list of publications, and a statement of research interests to Dr. George E. Likens, Search Committee, Institute of Ecosystem Studies, The New School for Social Research, Box AB, Millbrook, NY 12546. Equal Employment Opportunity.

RESEARCH ASSOCIATE POSITION. Available to study (i) signal transduction mechanisms involved in the cardiac actions of EGF, (ii) transcription/translation regulation of c-myc in receptor preparations from rat cardiac tissue in regenerating livers, and (iii) metabolic and growth modulating actions of aminosteroidal derivatives. Applicants must possess a Ph.D. or M.D. degree in the basic biomedical sciences with at least 2 years of training in the area of biochemical pharmacology. The individual is expected to analyze data, write manuscripts, and present seminars and journal clubs related to his/her work. Annual salary: $23,000. Forward curriculum vitae and arrange for three letters of recommendation (by 31 December 1990) to be sent to: Mrs. Edna Flynn, Tennessee Job Service, 1235 Poplar Avenue, Memphis, TN 38104. Equal Opportunity Employer. Minority candidates and women are especially encouraged to apply.

RESEARCH ASSOCIATE. Applications are invited for a nontenure-track faculty position to study factors affecting protozoa in bacteria. Specific areas of interest include stabilization of eukaryotic proteins synthesized in bacteria, enzymes responsible for protein breakdown, mutations that alter protein breakdown, and changes in protein breakdown related to growth conditions. Requires Ph.D. plus laboratory experience in molecular biology and cell biology. Annual starting salary: $27,500 plus full benefit package. Interested applicants should forward curriculum vitae and the names of three references to: Dr. Lee Simon, Waksman Institute, Rutgers, The State University of New Jersey, 303 Lyle Hall, New Brunswick, NJ 08855-0759. Successful candidate to provide employment eligibility verification.

AFFIRMATIVE ACTION/EQUAL EMPLOYER.

The Philadelphia Biomedical Research Institute offers positions for SENIOR RESEARCH SCIENTISTS who wish to direct research studies in cancer research/ AIDS. The institute does not have initial salary, but will offer laboratory facilities and administrative assistants should have Ph.D. or be ready to submit research grants from our institute. Collaboration with research groups in University of Pennsylvania, Temple University, and other schools is possible. Contact: S. T. Ohnishi, Ph.D., Director, 502 King of Prussia Road, Radnor, PA 19087. The Philadelphia Biomedical Research Institute is a nonprofit institute and is an Equal Employment Opportunity.

POSITIONS OPEN

RESEARCH SCIENTIST. Ph.D. in Chemistry or related field, with experience in basic chemistry. Salary negotiable. Must possess excellent written and oral communication skills and ability to work independently. Send CV to: Dr. C. K. Hitchcock, University of Delaware, Department of Chemistry, Newark, DE 19716. Equal Employment Opportunity.

POSITIONS OPEN

INSTITUTE OF ECOSYSTEM STUDIES
SOIL MICROBIAL ECOLOGIST

ASSISTANT OR ASSOCIATE SCIENTIST position available for ecologist with research interests in soil microbial ecology and populations. Ideal candidate will be involved in a diverse group of terrestrial and aquatic ecologists with an ecosystem focus. Foundation grant available to support a strong research program. Ph.D. required; postdoctoral experience desirable. A letter of application, curriculum vitae, and names of three references should be sent by 15 January 1991 to: Dr. Gene E. Likens, Search Committee, Institute of Ecosystem Studies, The New School for Social Research, Box AB, Millbrook, NY 12546. Equal Employment Opportunity.

Unique opportunity to participate in the expansion of McLaughlin Research Institute, a small mammalian genetics center in Great Falls, MT. Positions are available for ESTABLISHED INVESTIGATORS to work in a nonproprietary, interactive research environment and to participate in the design of the new facility and in recruitment and selection of additional scientists. Current research programs are on the genetics of susceptibility to cancer and neurodegenerative diseases, but recruits will design research programs of their own. Submit curriculum vitae, list of publications, and a statement of research interests and plans to: Dean, McLaughlin Research Institute. Box 1200, Great Falls, MT 59904, or any of the following members of our Scientific Advisory Committee: Jeff Frelinger, Norm Reed, Lee Hood, Neil Copeland, or Irv Frelinger. An Equal Opportunity/Affirmative Action Employer.


BIOLoGIST. We currently have a position available for an experienced molecular biologist in our Basic Research Division. You will conduct experiments involving cloning, sequencing, PCR, gene expression, and regulation. Experience in mammalian cell culture is preferred, 2 to 5 years of experience as a molecular biologist is required. Syntex offers outstanding research facilities in a beautiful suburban setting. Benefits include health, life, dental, and retirement plans. Package includes an annual Bay Area cash bonus program, a day care facility, and an on-site health club. For immediate consideration, submit your resume to: Syntex, Professional Staffing Department SH, 3401 Hillview Avenue, P.O. Box 10850, Palo Alto, CA 94303. We are an Equal Opportunity Employer.

ASSISTANT STAFF SCIENTIST. Responsible for independent research in purification and recovery of recombinant proteins expressed in microbial and mammalian cell hosts and design of separation processes for the pilot manufacturing plant. Research techniques utilized include use of specific chromatographic separation techniques, such as ion exchange, affinity, metal chelating chromatography, size exclusion chromatography, and gel electrophoresis. Design responsibilities include design of light scattering apparatus and of separation processes for pilot plant. Requirements: Ph.D. in chemical engineering and 1 year of work experience in scientific research. Experience must include (i) design and use of laser light scattering apparatus to study proteins, including computer analysis of data, and (ii) perform routine use of protein measurement technology including chromatographic separation techniques. Must have published at least three articles on the relevant topic within the last 5 years. Send curriculum vitae and three letters of recommendation by 15 January 1991 to: J. D. Davies, Dow Chemical, Central Research Services, P.O. Box 1618, Columbus, OH 43216.

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1991 Competition

25 Fellowships will be awarded to physicians by the Howard Hughes Medical Institute for three years of training in fundamental biomedical research. Awards, based on an international competition each year, focus on research directed to an understanding of basic biological processes and disease mechanisms. Fellowships may be held at any academic or research institution including but not limited to Hughes laboratories.

■ Fellowship Terms
  • Three years of support
  • Full-time fundamental research
  • $35,000-$50,000 annual stipend
  • $15,000 research allowance
  • $12,000 institutional allowance

■ Eligibility
  • M.D., M.D./Ph.D., or D.O., with the M.D. or D.O. awarded no earlier than 1982
  • At the start of the fellowship
    at least two years of postgraduate clinical training completed
    no more than two years of postdoctoral research training completed
  • Applicants (and fellows) may not have faculty appointments
  • Fellows may not be enrolled in graduate degree programs
  • No citizenship requirements; U.S. citizens may study abroad, others must study in the United States

■ Schedule
  • Application deadline: March 1, 1991
  • Awards announced: September 1991
  • Fellowships start: January 1, 1992 - September 1, 1992

FOR 1991 PROGRAM ANNOUNCEMENTS AND APPLICATIONS

Howard Hughes Medical Institute
Office of Grants and Special Programs
Postdoctoral Research Fellowships for Physicians
Department NA91
6701 Rockledge Drive
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