Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no abbreviations. Classified ads must be at least 2 weeks before the issue in which they appear. Also, personal ads run only with the understanding that the advertiser does not discriminate among qualified applicants of race, sex, religion, age, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish orCancel advertising submitted to it.

LINE CLASSIFIED ADVERTISING DEADLINES:
Thursday, 10 a.m. 2 weeks prior to issue date (mailed on issue date). For display ads for displaying advertising, please contact Scherago Associates.

POSITIONS WANTED:
400 per word, plus $4 for use of box number, per week. $10 minimum, per week. Prepayment required. This rate is available only to individuals seeking jobs.

LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth):
$20.00 per line, $38.00 minimum, per week (minimum charge covers one inch on a single column; one inch equals 10 lines of 52 characters and spaces per line). No charge for use of box number. No agency commission for ads less than 4 inches. No cash discount. Prepayment required for all foreign ads. Purchase orders must be accompanied by billing address required for all other advertising.

To ESTIMATE ad cost:
Structure ad copy on a separate page, on lines of 52 characters or spaces. Include any desired heading. Each line of heading, and/or extra line spaces, and all partial lines (including centered reply information) are counted as full lines. Ad titles located within the text are permitted. Headings and are a total of 52 characters per line. In ESTIMATING the cost, multiply total lines x $20.00 = approximate cost of ad. (This is an approximate cost only. Allow for variation between estimated lines and actual typewriter lines and the resulting final cost. For instance: orders submitted for some degree of flexibility and/or adjustment.)

CANCELLATION POLICY:
No cancellations made after Thursday, two weeks prior to issue date incur a 10% production charge. Final deadline for cancellations is 12 p.m. Tuesday, one week prior to issue date. Cancellations must be in writing.

Send copy for all Positions WANTED ads and Line Classified ads less than 1/2 page in size (36 lines) to:
SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6555

Send copy for Fractional Display ads, 1/6 page, and larger, and all MarketPlace ads to:
Scherago Associates, Inc.
1918 Broadway
New York, NY 10023
Telephone: 212-730-1050

Blind ad replies should be addressed as follows:
Box (give number)
SCIENCE
1320 H Street, NW
Washington, DC 20005

POSITIONS WANTED


Laboratory Animal Veterinarian. Experience with 3/4 years in a high quality surgical and medical clinical practice; 1/2 years experience in laboratories. Animal care and use committee, GLP and GMP regulations. USDA accredited, licensed. See part/full-time position in biotechnology, pharmaceutical, research; government in south-central Pennsylvania, Baltimore, Philadelphia area. Box 197, SCIENCE.

Medical Informatics, M.D. Research and development expertise in artificial intelligence (Expert systems), medical information systems, and computer-assisted medical education. Also, experience teaching medical informatics. Seeking challenging position utilizing medical/biological and computer background in advanced academic and/or clinical research environments. P.O. Box 260324, Tampa, FL 33685.

Plant Pathologist (Ph.D., 1967). Twenty-one years of experience working in the Caribbean region on a wide range of crops, particularly pigeon pea, cowpea, kenaf, citrus, yam, papaya. Considerable experience in: systems of fungicide application, bacterial wilt caused by Ps. parasitica, disease diagnosis, teaching as extension agent to postgraduate levels, administration. Seeking position in academic, industry, or consulting fields. Box 188, SCIENCE.

Plant Tissue Culturist, M.S. Research experience in foliage and woodsies, meristem, callus, and embryo culture, somatic embryogenesis, protoplast culture. Management experience, manuscript production. Independent research. Seeks suitable position in industry/academia. Box 182, SCIENCE.

Retrovirologist, Ph.D. Experienced and published in human immunodeficiency virus and murine retroviruses. Demonstrated ability for independent research and laboratory management. Desires academic/research position. Box 194, SCIENCE.

Toxicologist, Veterinarian, D.V.M.; M.S. (1975) (1984). Eight years of experience in toxicology laboratory procedures, such as spectrophotometry, TLC, ural chromatography, and P-450 metabolizing enzymes, acute toxicity tests of NTE, fungicides, pesticides, Pyrogen testing, pathological studies in mice, rats, and rabbits. Extensive clinical pathologist laboratory animal care. Seeks challenging position in industry, diagnostic laboratories or academic. c/o Advertiser, 1925 Cornelia Road, Galesburg, IL 61401. Telephone: 309-342-8052.

POSITIONS OPEN

Western Maryland College—An independent college of the liberal arts and sciences, located in central Maryland near Baltimore and Washington, D.C.—announces a tenure-track opening at the ASSISTANT PROFESSOR level beginning in September 1989. The four member, ACS-certified chemistry department seeks applications from chemists who will possess by September 1989 a Ph.D. in chemistry. The college is committed to attaining ACS approval for the chemistry/biochemistry option. The successful applicant will be expected to teach and develop courses in biochemistry and to participate in service and research in the general science and biochemistry area. Although Western Maryland's emphasis is high quality teaching, research with students is encouraged. Prior departmental and/or postdoctoral work is desired but not required. Candidates should submit a resume, all graduate and undergraduate transcripts, and three or more letters of recommendation to: Dr. David H. Herlocker, Head, Search Committee, Department of Chemistry, Western Maryland College, Westminster, MD 21157 by 13 February 1989. Western Maryland College is an Equal Opportunity/Affirmative Action Employer.

WANTED

ASSISTANT DIRECTOR FOR SCIENCE, M.D. or Ph.D. Develop and implement research plans/science policy for Maryland Regional Disease Registry (ATSDR). Chief, spokesman in matters of science representing ATSDR before Congress, committees, task forces, or other groups. Experience exhibiting capability in biomedical science; demonstrated achievement in environmental health area, professional papers in field of expertise, and personal creative contributions. Salary: in line with past experience. At least one year of relevant experience in research or technology. American Society for Testing and Materials registration. At least one year of relevant experience in research or technology. American Society for Testing and Materials registration. Provides a smoke-free workplace and is an Equal Opportunity Employer.

ASSISTANT FACULTY MEMBER, Division of Basic Immunology, performing original scientific research on questions related to antigen processing and presentation in T cell development and function. The ability to design and perform experiments to study the function and development of the cellular immune system, and the design of novel strategies in the treatment of cancer and infectious diseases. Minimum: Ph.D. in biology or immunology, with specialization in the function and differentiation of T lymphocytes. Experience: $3667 per month; 40 hour week. Send résumé to: Colorado Department of Labor and Employment, 500 Grant Street, Suite 400, Box 30203-3528. Reference to job order #CO2918107.

ANATOMIST, Ph.D. Nine years of experience teaching gross anatomy, histology and neuroanatomy to medical students. Prior teaching at undergraduate level. Seeks teaching position at medical school or university. Box 196, SCIENCE.

Anatomist/Reproductive Biologist, Ph.D. (1986). Two years of experience teaching gross anatomy, histology, and biochemistry. Experience in tissue culture, light and electron microscopy, protein purification, column chromatography, SDS-PAGE, Western blotting, in vitro hormone binding, ovulation induction drugs (clomiphene and piperazine), and teaching. Receptive to teaching (70%) and collaborative research position (30%) in Midwest area. Available in January 1989. Box 190, SCIENCE.

ANATOMIST/REPRODUCTIVE BIOLOGIST

COLLEGE OF WASHINGTON AND MARY SCHOOL OF MEDICINE

ASSISTANT PROFESSOR, tenure-track. The School of Marine Science, Virginia Institute of Marine Science, College of William and Mary, is seeking a Ph.D. shellfish biologist with experience in molluscan culture and research to begin the fall of 1989 as a Shellfish Biologist. Applicants are being invited to work as part of an academic, research, hatchery and industry program to revitalize the Virginia oyster industry through use of mariculture. Successful applicant will be expected to develop the research portion of the program. Women and minority scientists are encouraged to apply. Send three references, curriculum vitae and statement of current research interests by 13 January 1989 to: Dr. Roger Mann, Chairman, Shellfish Biologist Search Committee, School of Marine Science, College of William and Mary, Gloucester Point, VA 23602

ASSISTANT PROFESSOR

Applications are invited for a position at the level of assistant professor (tenure-track) in the Division of Interdisciplinary Studies, School of Allied Health. The position involves teaching and research and is open to any area of expertise. Applicants must be strongly motivated toward research and committed to teaching at the undergraduate level. Interested persons should submit curriculum vitae, a description of research interests and three references to: Search Committee, Interdisciplinary Studies, School of Allied Health, University of Texas Medical Branch, Galveston, TX 77550

Deadline: 15 January 1989. UTMB is an Equal Opportunity/ Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States.
ASSISTANT PROFESSOR at Presbyterian-related liberal arts women's college to teach biochemistry, general chemistry, introductory biology courses and courses in non-science majors. Involves supervising senior research and some work with gifted girls and adults. Submit résumé, letter of application, statement of teaching and research interests, and three letters of recommendation by 15 February 1989 to: Biochemistry Search Committee, Dean of the College, Mary Baldwin College, Staunton, VA 24401. Equal Employment Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR. (Tenure-track) position for person with Ph.D. and a broad background in oceanography and experience in recent areas of fossil radiolaria. The Marine Studies Program at the University of San Diego (USD) is a new "flagship" program at the University. The program offers a Master of Science degree in Marine Studies for those majoring in Marine Sciences. Wages, moving expenses, and a minimum of three letters of recommendation are required. Send résumé, including names and addresses of three references, and a two-page statement of research interests to: Chairperson, Marine Studies, 11-007, The Division of Arts and Science, University of San Diego, Alcala Park, San Diego, CA 92110. The University of San Diego is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—MOLECULAR BIOLOGY

The Division of Reproductive Endocrinology and the University of Maryland School of Medicine at Baltimore seek candidates for a full-time tenure-track faculty position at the assistant professor level. Starting date is August 1989. Minimum requirements for the position include a Ph.D. degree and no less than 2 years of postdoctoral experience. The successful applicant will be joining an expanding research unit concerned solely with the molecular and cellular endocrinology of the mammalian ovary. Applicants with experience in one or more of the following areas will be given priority: development of new animal models using modern molecular biological approaches to the study of ovarian physiology. Participation in the graduate and undergraduate teaching programs is welcome but not required. Aside from competitive start-up funds and moving expenses, the position guarantees salary, operational, and technical support for 4 years. Applications, including curriculum vitae should be sent to: Dr. Eli Y. Adashi, Division of Reproductive Endocrinology, 655 West Baltimore Street, Room 11-607, Breznier Research Building, Baltimore, MD 21201.

ASSISTANT PROFESSOR—MOLECULAR VIROLOGY

The Department of Ophthalmology, Baylor College of Medicine, seeks an innovative scientist to develop an independent research program on herpes virus infections of the eye. The position is a joint appointment with the Department of Molecular Virology. Applicants for this tenure-track position should have a Ph.D. with at least 2 years postdoctoral experience in molecular virology. Negotiable starting date. Send curriculum vitae, names of at least three references, and a statement of research interests to: Dr. K. R. Wilhelmson, Chairperson—Search Committee for Molecular Virologist Position, Department of Ophthalmology, Oullen Eye Institute, Baylor College of Medicine, One Baylor Plaza, (P.O. Box 600), Houston, TX 77230. Equal Opportunity Employer.
POSITIONS OPEN

ASSISTANT PROFESSOR
REPRODUCTIVE DEVELOPMENTAL
TOXICOLOGY

Tenure-track position available immediately. Candidate must have Ph.D. or other doctoral degree and thorough training, including some postdoctoral experience in reproductive and developmental toxicology. It is intended that the candidate join in expanding an existing research program investigating mechanistic and/or epidemiological aspects of reproductive and developmental toxicity. The University of Cincinnati College of Medicine has a strong tradition of research and research training in toxicology. The department has five faculty members who are actively involved in research training. They are seeking a full-time, tenure-track assistant professor with a research focus in reproductive and developmental toxicology. Applications are encouraged from candidates with a strong research background and a commitment to training the next generation of toxicologists. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.

The University of Cincinnati, College of Medicine, Department of Obstetrics and Gynecology, is accepting applications for a full-time, tenure-track assistant professor position in reproductive developmental toxicology. The successful candidate will have a strong research background and a commitment to training the next generation of toxicologists. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR
RESEARCH BIOCHEMISTRY

The University of Southern Maine Department of Chemistry is seeking a full-time, tenure-track assistant professor in research biochemistry. The successful candidate will have a strong research background and a commitment to training the next generation of biochemists. The University of Southern Maine is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

Assistant/Associate Professor

The University of Southern Maine Department of Chemistry is seeking a full-time, tenure-track assistant professor in research biochemistry. The successful candidate will have a strong research background and a commitment to training the next generation of biochemists. The University of Southern Maine is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR

The University of Southern Maine Department of Chemistry is seeking a full-time, tenure-track assistant professor in research biochemistry. The successful candidate will have a strong research background and a commitment to training the next generation of biochemists. The University of Southern Maine is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR

The University of Southern Maine Department of Chemistry is seeking a full-time, tenure-track assistant professor in research biochemistry. The successful candidate will have a strong research background and a commitment to training the next generation of biochemists. The University of Southern Maine is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

Assistant/Associate Professor

The University of Southern Maine Department of Chemistry is seeking a full-time, tenure-track assistant professor in research biochemistry. The successful candidate will have a strong research background and a commitment to training the next generation of biochemists. The University of Southern Maine is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

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POSITIONS OPEN

Assistant/Associate Professor

The University of Southern Maine Department of Chemistry is seeking a full-time, tenure-track assistant professor in research biochemistry. The successful candidate will have a strong research background and a commitment to training the next generation of biochemists. The University of Southern Maine is an Equal Opportunity/Affirmative Action Employer.
LABORATORY DIRECTOR RESEARCH LEADER

Appalachian Fruit Research Station
Kearneysville, West Virginia

The Agricultural Research Service (ARS) has an opening for a Laboratory Director in its Station located in the eastern panhandle of West Virginia (near Harpers Ferry). The Station has over $3M in programs aimed at improving fruit production, protection, harvesting, sorting, and maintenance of fruit quality in the Eastern U.S. It is housed in a modern building on 500 acres of land devoted to fruit crops. About 20 full-time researchers and 60 support personnel work at the Station. Approaches used include classical and molecular genetics, soil and weed science, horticulture, entomology, plant pathology, plant physiology, biochemistry, and agricultural engineering.

The Director is expected to lead, manage, and contribute to the research program and to provide oversight to the administrative and facility management staff. Therefore, candidates must have training and research accomplishments in one or more of the aforementioned areas of science and technology as well as demonstrated ability to work with people, manage resources, and represent the research facility to the public.

Must be a U.S. citizen, Ph.D, degree is highly desirable. Salary is commensurate with experience. GM-13- GM-15 (low $40's to high $50's). For information on application procedures, contact Alice MacNamara, USDA, ARS, P.O. Box 59, Beltsville, MD address by January 27, 1989.

ARS IS AN EQUAL OPPORTUNITY EMPLOYER. WOMEN AND MINORITIES ARE ENCOURAGED TO APPLY.

The Squibb Institute for Medical Research is recognized internationally as a leader in research & development of novel therapeutic agents for the treatment of cardiovascular & infectious diseases. We currently have an exceptional opportunity available for a Research Investigator to join our department of Pharmacology.

You will be responsible for research in the area of receptor pharmacology as it pertains to the therapeutic areas of cardiovascular disease.

Qualified candidates will have a Ph.D. with 3-5 years of post-doctoral research experience in biochemistry and/or pharmacology. Proficiency in experimental techniques relating to molecular characterization of pharmacological receptors (such as protein separation, purification & characterization) using a biotechnological approach is required.

For confidential consideration, please submit your resume to: The Squibb Institute For Medical Research, Human Resource Department 111, P.O. Box 4000, Princeton, NJ 08543. An equal opportunity employer.

U.S. Department of Energy
POSTGRADUATE RESEARCH PROGRAMS

Toxicology
Fossil Energy
Hazardous Wastes
Economics/
Energy Policy
Artificial Intelligence

• Research at national laboratories
• Stipends $19–35,000 depending on degree, program, research area
• Recent graduate degree
• U.S. citizens or PRAs eligible
• Information

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

CELLULAR AND MOLECULAR ENDOCRINOLOGY POSTDOCTORAL RESEARCH ASSOCIATE

To study control of hormone secretion at the single cell level by use of reverse hemolytic plaque assays in combination with recombinant DNA technologies and other molecular and microscopic techniques. Ongoing projects include: (i) Characterization of an extracellular mediator of prolactin action, (ii) ontogeny and functional interconversion of growth hormone and prolactin-secretory cells, (iii) differential regulation of hormone release from cells that simultaneously release both of these hormones, (iv) molecular heterogeneity of secreted prolactin, and (v) endocrine immune interactions. Salary is highly competitive and commensurate with experience. Background in cellular or molecular biology is desired, but not an absolute requirement. Please send curriculum vitae and names of three references to:

Dr. L. Stephen Frawley
Department of Anatomy and Cell Biology
Medical University of South Carolina
171 Ashley Avenue
Charleston, SC 29425
Telephone: 803-792-8526

CLINICAL PROJECT ASSOCIATE

Cedar-Sinai Medical Center has an exciting position available in the Department of Pediatrics. Position is responsible for the preparation and analysis of a diagnostic DNA laboratory for hemoglobinopathy disorders, prenatal diagnosis, identification of non-sympto- matic carriers, and correction of prenatal defects. Ph.D. or M.S. with 2 years of working experience in molecular biology; familiarity with Southern blotting a must.

Interested applicants should send résumé to:
Mark W. Schmitz
Cedar-Sinai Medical Center
Employment Services Department
Brown Building, 1st Floor
8700 Beverly Boulevard
Los Angeles, CA 90048

DEAN OF THE GRADUATE SCHOOL

The University of Akron invites applications and nominations for the position of Dean of the Graduate School. The post offers an unusual opportunity for an imaginative scholar committed to excellence in graduate education to guide the University in its continuing efforts to become a major institution of graduate education and research.

The University of Akron, the third largest state-assisted university in Ohio, has approximately 3000 full- and part-time graduate students enrolled in 37 master's and 14 doctoral degree programs. The Dean of the Graduate School will be responsible for upholding University policies in the areas of admissions, degree requirements, and faculty participation in graduate programs; for working with the academic departments to advance graduate education; for promoting graduate studies in the University and in the larger scholarly community; for increasing graduate student research, for minority recruitment, and for conveying the interests and needs of graduate faculty and students to the University's diverse constituencies. The appointment is available 1 July 1989, or as soon thereafter as possible.

Qualifications: The candidate should have a terminal degree in an appropriate field of scholarship; a record of distinction in research and publication; the ability to promote graduate education and research; prior administrative experience; and a commitment to excellence. The individual chosen will report directly to the Associate Vice President for Research and Graduate Studies.

Salary: Salary and rank are competitive and will be commensurate with qualifications and experience.

Application and nomination procedure: The deadline for applications and nominations is 20 January 1989. Each applicant should submit complete résumé including the names of at least five references. The search committee welcomes applications from women and minority candidates. Applications and nominations should be sent to Dean of the Graduate School Search Committee, Office of the Senior Vice President and Provost, The University of Akron, Akron, Ohio 44325.

The University of Akron is an Equal Education and Employment Institution.

DEAN OF SCIENCE

THE AMERICAN MUSEUM OF NATURAL HISTORY

The American Museum of Natural History invites applications and nominations for the position of Dean of Science. This is a vice presidential level position reporting to the President. The Dean will provide guidance and leadership to the curatorial staff; and will advise the President on all Museum-wide matters of direction of science at the Museum including such areas as staffing, budget allocation, equipment needs, collection management, and the role of the institution in research, exhibition and education. The Dean will be the chief spokesperson for the importance of the Museum's scientific efforts both internally and externally.

The American Museum intends to appoint a distinguished scientist to this position, ideally to begin 1 July 1989, and preferably from the collections-based fields now found at the Museum or from a closely allied field. The position is tenure-track and tenured in one of the Museum's scientific departments. Salary and benefits will be commensurate with the responsibilities for this position and competitive with leading colleges and universities.

Inquiries, applications with résumés, and nominations should be submitted by 15 February 1989 to:
Search Committee for Dean of Science
Office of the President
American Museum of Natural History
Central Park West at 79th Street
New York, NY 10024-5192

The American Museum is an Equal Opportunity Employer.

DIRECTOR CENTER FOR APPLIED ETHOLOGY AND HUMAN/ANIMAL INTERACTION

The School of Veterinary Medicine, Purdue University, invites applications for the Director, Center for Applied Ethology and Human/Animal Interaction. The successful candidate will be expected to develop a university-wide multidisciplinary teaching and research program in broad areas related to animal/human interactions, humane ethics, and animal welfare.

The position will be filled in the Department of Veterinary Pathobiology, Section of Epidemiology and Public Health, at the rank of associate or full professor depending on the individual's qualifications. Candidates should possess the D.V.M.M.M.D. and/or Ph.D. degree in the behavioral sciences, philosophy, epidemiology, ecology, or a related discipline. Demonstrated ability to collaborate with other scientists, compose successfully for extramural funds, and communicate with the public are required.

Please submit curriculum vitae, statement of career goals, and the names of at least five references to:
Dr. Larry Glickman, Head
School of Veterinary Medicine
Department of Pathobiology
Purdue University
West Lafayette, IN 47907

Final review of applications will begin February 1989. Purdue University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

DIRECTOR, BIOTECHNOLOGY SYNTHESIS FACILITY

The University of Utah Medical Center is developing an interdisciplinary facility for oligonucleo- tide synthesis, peptide synthesis, protein sequencing, and related biotechnological efforts. The University seeks an individual with a Ph.D. or M.D. in the fields of chemistry, biochemistry, or biology who will be responsible for establishing this facility. Salary is competitive.

Applications and nominations should be sent to Dr. David Stillman, Department of Cellular, Molecular and Biologic Medicine, University of Utah Medical Center, Salt Lake City, UT 84132.

DIRECTOR, WISCONSIN REGIOAL PRIMATE CENTER

The University of Wisconsin-Madison announces a search for Director of the Wisconsin Regional Primate Center. The Director will be expected to lead development of strong research programs involving University Faculty and Staff and outstanding visiting researchers in important biomedical areas in which the non-human primate offers unique opportunities for metabolic, developmental, reproductive and behavioral research relevant to the health of man and other primates. The Director will also hold a tenured professorship in an appropriate academic department and will have the opportunity to continue his/her research and graduate student/postdoc- toral training. Applicants should have a curriculum vitae, a statement of research interests and names of three references no later than 1 February 1989. Starting date is flexible with September 1989 targeted but negotiable. Address APL Search Committee, c/o Dr. John E. Stork, Dr. William J. May, Chairman, APL Search Committee, 533 Bascom Hill, University of Wisconsin-Madison, Madison, WI 53706. The University is an Equal Opportunity/Affirmative Action Employer.

DIRECTORS—Small, rapidly growing start-up company in the areas of protein design and antibody engineering seeks key scientific contributors. Three positions are available for Laboratory Directors in protein modeling, molecular biology and molecular immunology/immunochemistry. Attractive geographic location. Excellent compensation and stock options. Please reply in strict confidence to: Box 198, SCIENCE.

ECOLOGIST/ASSISTANT PROFESSOR

An entry-level tenure-track position to begin August 1989. Ph.D. required. Teaching responsibilities include general biology, ecology, and upper-level courses in area of specialty. The development of an active research program and direction of graduate students is expected. The successful applicant will have the opportunity to interact with the departmental wildlife biology program, Hanscom Biological Station, and the Institute for Environmental Studies. Salary depends on Ph.D. degree and experience. The search is open to candidates with experience in field ecology, behavioral ecology, and restoration ecology. To: Dr. D. C. Wieler, Department of Biological Sciences, Murray State University, Murray, KY 42071. MSU is an Equal Opportunity/ Affirmative Action Educator. Minorities and women are encour- aged to apply.
Celss Research Analyst

Lockheed Engineering & Sciences Company, in support of the NASA Johnson Space Center at Houston, Texas, is performing conceptual design studies of Closed Ecological Life Support Systems (CELSS) to be used on future manned space exploration missions. These systems will provide the crew with food, water, air, and will process waste products.

Lockheed is developing a dynamic computer simulation of a CELSS to perform system level design studies. These studies will evaluate the expected performance of proposed system elements and aid in the definition of supporting research associated with CELSS development.

We are seeking applicants who can participate in the development of this simulation capability and use the simulation to perform scientific and engineering studies. To qualify, the applicant should have a knowledge of the state-of-the-art in physical/chemical and biological processing technology, the ability to define mathematical models of engineering systems, and an understanding of process control theory. A BS (MS or PhD preferred) in the physical or biological sciences or engineering and 3 years of applicable experience is required.

Send resume and inquiries to:

Lockheed Engineering & Sciences Company
2400 NASA Road One
Houston, Texas 77058
Attn: P.S. Jones (713) 483-5011
MC/C23

Formerly the Lockheed Engineering and Management Services Company.

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER
ECONOMIC GENETICS

A full-time research position for an ecological genetically
is available at the University of Georgia’s Savannah River Ecology Laboratory in Aiken, South Carolina. Candidate must have a Ph.D., publications in the open
literature and must be a U.S. citizen. Ability to develop
computer software, experience with vertebrates, knowl-
edge of mathematical procedures and experience with
laboratory techniques used to genetically analyze natural
populations required. Experience with graduate students
is desirable. Faculty appointment will be at the ASSIST-
ANT OR ASSOCIATE ECLOGIST level with salary
negotiable depending upon qualifications and experi-
ence. Send curriculum vitae, selected reprints and names,
addresses, and names of members of four references to:
Dr. Michael H. Smith, Director, Savannah River Ecology Laboratory, Drawer E, Aiken, SC 29802;
telephone: 803-728-2999. Applications will be accept-

ELECTRON MICROSCOPY
RESEARCH SPECIALIST

Full-time position available beginning January 1989
for an individual to be responsible for the day-to-day
operation and maintenance of our electron microscopy
facility. A sound knowledge of transmission and scan-
ning microscopy required. Also required: experience in
handling of biological samples and clinical pathology
specimens, preparative procedures (conventional and
cytopathology), fixation and embedding, ultra thin
sectioning, immunolabeling), and photographic tech-
niques. Applicant must be willing to collaborate with
a variety of laboratories and investigators. A master’s de-
gree in biology, biochemistry, or biophysics is preferred.
We offer an excellent salary and benefits package.
Qualified candidates send résumé or call: Personnel
Department.

ENVIRONMENTAL SCIENTIST: Position avail-
able in EPA’s Office of Radiation Programs in the area of
risk assessment. Candidate will develop and apply envi-
ronmental pathway models to estimate exposures, doses,
and risks due to radioactive isotopes in the environment.
Evidence of ability to mathematically model physical
processes plus basic knowledge of ionizing radiation and
the behavior of radioactive materials essential. Knowl-
edge of dispersion modeling, uncertainty analysis, and
radiobiology also desirable. Grade/salary dependent on
qualifications. Send curriculum vitae and three references
or SF-171 to: Dr. Jerome S. Psukh (ANR-461), EPA,
401 M Street, SW, Washington, DC 20460.

FACULTY POSITION

The Division of Gerontology and Geriatric Medicine at University of Alabama, Birmingham (UAB), invites applications for its Prodecuring Division Director to work with its teaching, research, and community service
programs. Must be well-qualified and experienced in
planning and conducting multidisciplinary research proj-
jects, working with advisory support groups, and
developing and teaching relevant courses for medical and
other health science professions students and trainees.
Apply to: Department of Medicine/Chairman’s Of-
lice, University of Alabama at Birmingham, UAB Station, Birmingham, AL 35294, Attention: J. Claude Bennett, M.D. An Equal Opportunity/Affirmative
Action Employer.

FISH BIOLOGY-
POSTDOCTORAL FELLOW AND
Ph.D. OPPORTUNITIES

Immediate: one postdoctoral fellow, two Ph.D.’s to participate in (i) mesocosm studies of size-selective
predation on larval fishes, (ii) experimental and oolitic
analyses of life history trait variation in larval fishes.
March 1989: one to two postdoctoral fellows, two
Ph.D.’s to participate in field and experimental analyses of
life history trait variation in larval fishes and its
population consequences.
Interested candidates should forward curriculum vitae, representative reprints, names and addresses, and telephone numbers of three referees, and clearly specify a firm date of availability.

Dr. W. C. Leggett
Department of Biology
McGill University
1205 Avenue Dr. Penfield
P.Q.-H3A 1B1

POSTDOCTORAL POSITIONS

TWO POSTDOCTORAL POSITIONS (M.D. OR Ph.D.) are available in the National Institutes of Arthritis, Musculoskeletal and Skin Diseases, National Institutes of Health, Public Health Service, to investigate gene
expression during repair of bone and cartilaginous tissues. Studies will evaluate mRNA expression for structural
and regulatory genes in models of normal or impaired healing, correlate observations with histological events, and
explore the effect of exogenous growth factor administration on the repair process. The applicant should have a
background in biochemistry, molecular biology, or orthopedic surgery. Salary is flexible. Salary is $20,000 to $50,744
annum depending on experience. Send curriculum vitae and three letters of reference to: Mark E. Bolander, M.D.,
Orthopaedic Research Unit, Bldg. 30, Rm. 414, 9000 Rockville Pike, Bethesda, MD 20892. US Citizenship required.

DEPARTMENT OF CHEMISTRY

SENIOR PROTEIN
BIOCHEMIST

The Department of Chemistry of Simon Fraser University anticipates authorization for a tenure-track position for a
Protein Biochemist at the rank of Associate Professor or
Professor to begin in 1989-90. Applicants are invited from biochemists with established and outstanding research programs in the areas of enzy-
ology or protein structure-function relationships. In
addition to maintenance of a strong research program the
appointee would be expected to contribute to the under-
graduate teaching program in Biochemistry.

In accordance with Canadian immigration requirements, this advertisement is directed initially to Canadian citizens
and permanent residents.

Applications are invited from biochemists with established
and outstanding research programs in the areas of enzy-
ology or protein structure-function relationships. In
addition to maintenance of a strong research program the
appointee would be expected to contribute to the under-
graduate teaching program in Biochemistry.

Applicants should supply a curriculum vitae to:

Prof. A.C. Delehanty, Chairman
Dept. of Chemistry
SIMON FRASER UNIVERSITY
Burnaby, British Columbia
V5A 1S6

Deadline for receipt of applications is March 31, 1989.
THE OHIO STATE UNIVERSITY
PLANT MOLECULAR BIOLOGY

Faculty Position

The Ohio State Biotechnology Center is searching for a person at the assistant or associate professor level with expertise in the area of regulation of gene expression relevant to plants, microbes and their interactions. This tenure track position, in conjunction with the Department of Botany, has its primary emphasis on research. Excellent laboratory facilities, start-up funds and infrastructural support are available for modern molecular biology work. The incumbent will have access to the Molecular, Cellular and Developmental Biology Program, an inter-departmental graduate program and there are good opportunities to interact with 36 faculty members active in the area of plant biotechnology. Salary will be commensurate with experience. Please send CV with one page statement of research objectives and names of three references by January 31, 1989 to the attention of Prof. D.P.S. Verma, Chairman, Search Committee, Biotechnology Center, Rightmire Hall, The Ohio State University, 1060 Carmack Road, Columbus, OH 43210-1002 U.S.A.

Equal Opportunity/Affirmative Action Employer.

NATIONAL UNIVERSITY OF SINGAPORE
DEPARTMENT OF ZOOLOGY

Applications are invited for teaching appointments in the Department of Zoology. Candidates should have a Ph.D. degree and who are able to teach in one or more of the following areas:
- Animal Behaviour particularly with research experience using the neurophysiological approach
- Immunology of aquatic animals
- Molecular Developmental Biology
- Biophysics particularly applications of computers/electronics in experimental biology

Gross annual emoluments range as follows:

<table>
<thead>
<tr>
<th>Position</th>
<th>Salary in S$</th>
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<tbody>
<tr>
<td>Lecturer</td>
<td>44,870 - 58,680</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td>53,160 - 94,090</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>82,430 - 113,530</td>
</tr>
</tbody>
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The commencing salary will depend on the candidate’s qualifications, experience and the level of appointment offered.

Applications and further information on terms and conditions of service may be obtained from:

The Director
Personnel Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511

Enquiries may also be sent through BITNET to: PERDEPT@NUSVM

BIOPHYSICIST

Monsanto Company’s Central Research Laboratories has an immediate opening for a Biophysicist in their New Technology Development Department. The successful candidate will join a world class group in the science of membranes, bioseparations, and controlled delivery.

Candidates should possess a Ph.D. in either Biophysics/Physical Biochemistry/ or Biophysical Chemistry or equivalent. A minimum of two years experience in materials, biocompatibility and protein interactions with polymers is desirable.

For consideration, please send resume and references to: Dr. Jay M.S. Henry, Sr. Fellow/ Director New Technology Development; Central Research Laboratories; MONSANTO COMPANY; Mail Zone U2E; 800 North Lindbergh Blvd., St. Louis, MO 63167. An Equal Opportunity Employer M/F/H/V.

Monsanto

Important Contributions To An Essential Effort.

If you’ve been looking for an organization where your contributions will make a strong and positive impact, may we suggest The MITRE Corporation. A not-for-profit organization providing expert systems engineering solutions to military and civil agencies of the U.S. Government, we are currently providing technical support to manage the nation’s hazardous waste problems for the EPA and to meet the mandates of the Defense Environment Restoration Act. These are the essential efforts that can make excellent use of your proven expertise.

Toxicologists

McLean, VA & San Antonio, TX

We currently have openings at our Washington Center and our San Antonio Site for professionals with high levels of skill and dedication to provide quality assurance of human health risk assessments performed by contractors on Air Force Installation Restoration Sites. Specific responsibilities include evaluating work plans for adequacy of approach; reviewing risk assessments for accuracy, completeness and validity of conclusions; and analyzing expect risk reductions. You will assist the Air Force in coordinating activities with EPA regional and state offices to ensure regulatory compliance. To qualify, you must have an advanced degree in Toxicology or related discipline, plus at least 3 years of experience in conducting chemical exposure and risk assessments, preferably at hazardous waste sites. Familiarity with CERCLA/SARA, the RI/FS process and EPA guidelines for conducting risk assessment at NPL sites is essential. Excellent communications skills a must.

**HUMAN IN VITRO FERTILIZATION**

EMBRYOLOGIST position available immediately to assist in maintaining a high and consistent pregnancy rate. Applicants with a B.S. or M.S. in biological sciences or related discipline, experience in reproductive physiologically, embryology, or endocrinology, and laboratory experience (issue transfer) are needed. We offer a competitive salary commensurate with experience and a comprehensive benefits package. Send resume with salary history and three references to: Search Committee, Department of Reproductive Biology, York, PA 17403.

**IMMUNOLOGIST**

The Department of Biology at Loyola University Chicago seeks an immunologist for a 9-month, tenure-track position at the level of assistant professor or equivalent, beginning August 1989. Ph.D. and postdoctoral experience required. The individual will develop an active research program, teach undergraduate and graduate students, and teach at graduate and undergraduate levels. Applicants should send curriculum vitae, statement of research interests, and list of at least three references to: Dr. Frederick H. H. E. Kendall, IVF Australia Program at United Hospitals, 406 Boston Post Road, Port Chester, NY 10573. An Equal Opportunity Employer.

**MICROBIAL GENETICIST**

A tenure-track assistant professorship is anticipated beginning August 1989. The Ph.D. is required with postdoctoral experience. The individual will be expected to teach undergraduate and graduate courses in microbial genetics (including laboratory) and to develop an active research program in microbial genetics. A commitment to excellence in teaching and research is required. Applicants should send curriculum vitae, statement of research experience, and names of three references to: Dr. Paul J. Wilson, Department of Biological Chemistry, University of California, Berkeley 94720. Applications should be received by February 1, 1989. An Equal Opportunity/Affirmative Action Employer.

**MEDICAL CHEMISTRY FACULTY POSITION—USING NMR SPECTROSCOPY**

The Department of Medicinal Chemistry, University of Minnesota invites applications for a tenure-track assistant professor position, beginning August 1989. Applicants should have a Ph.D. in medicinal chemistry or a related field, postdoctoral experience, and the desire to develop an active research program in the application of NMR spectroscopy to molecular biology and drug design. Teaching will be at both the undergraduate and graduate levels. Applicants should send curriculum vitae, a summary of their proposed research, and arrange to have three letters of recommendation sent to: Professor Robert Vincent, Department of Medicinal Chemistry, College of Pharmacy, University of Minnesota, Mail Code 410, 1340 University Ave. SE, Minneapolis, MN 55455. The deadline for receipt of applications is 15 February 1989. The University of Minnesota is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

**MEMBRANE BIOCHEMIST**

A tenure-track assistant professor position is available in the Department of Biochemistry, beginning August 1989. Duties are to develop an active research program in membrane biochemistry and, with core faculty, to teach undergraduate and graduate courses. Ph.D. and postdoctoral experience required. Salary range: $30,000 to $34,000 per 9 months. Send a statement of research and future research goals, curriculum vitae, and reprints, and have three letters of recommendation sent to: Dr. Robert J. Somlyo, Department of Pharmacology, University of Kansas, Lawrence, KS 66045. Closing date: 15 February 1989. Complete position description available upon request. Equal Employment Opportunity/Affirmative Action Employer.

**MOLecULAR BIOLOGIST**

The University of Richmond invites applications for a tenure-track position in biology at the assistant professor level. The primary teaching responsibility will be to coordinate and teach a core undergraduate course in cell biology and, possibly, to teach an undergraduate core course in molecular genetics. In addition, the appointee will be expected to develop advanced undergraduate and graduate courses in molecular biology. Preference will be given to those who will develop an active research program in molecular biology involving undergraduate students. Candidates must have the Ph.D. degree in molecular biology or biochemistry, and postdoctoral experience is desirable. Submit résumé, undergraduate and graduate transcripts, and names of names of three references by 17 February 1989. Microbiology Search Committee, Department of Botany and Microbiology, University of Richmond, Richmond, Virginia 23173. An Equal Opportunity/Affirmative Action Employer.

**MOLECULAR BIOLOGIST**

The Department of Biomedical Research and the Division of Cardiology at St. Elizabeth’s Hospital of Boston, Tufts University School of Medicine, is seeking two full-time staff members with expertise in molecular biology. The applicant must have established research productivity. Both Ph.D. or M.D. candidates are eligible. For M.D. candidates, research programs are available to participate in patient care and teaching. In addition to development of his or her own research area, the applicant will have the opportunity to participate in interdisciplinary collaborative studies as well as in a postgraduate research training program. Academic appointment is at the level of assistant or associate professor, depending on qualifications.

The Department of Biomedical Research is currently comprised of basic and clinical scientists with expertise in the fields of molecular biology, biochemistry, physiology, and endocrinology. The successful applicant will be expected to make a significant contribution to the growth of the division, and to participate in the training of graduate and postgraduate students and residents. Applicants should send curriculum vitae, summary of their academic goals and professional goals to: Jeffrey M. Isner, M.D., Director, Cardiovascular Research Center, St. Elizabeth’s Hospital of Boston, 736 University Avenue, Boston, MA 02115. An Equal Opportunity Employer.

**MOLECULAR BIOLOGIST**

Jacksonville State University invites applications for an assistant/associate professor tenure-track position beginning August 1989. The successful candidate will develop a program of research and teaching in molecular biology and will assist in the general biology program. Ph.D. or M.D. is required. Send curriculum vitae, a statement of teaching and research interest, and three letters of recommendation to: Dr. V. T. Hill, Jacksonville State University, Jacksonville, AL 36265. Jacksonville State University is an Equal Opportunity/Affirmative Action Employer.

**MOLECULAR BIOLOGY/BIOCHEMISTRY**

Two tenure-track ASSISTANT PROFESSOR positions in the interdisciplinary department beginning September 1989 to teach in the following areas: molecular biology, microbial genetics, microbiology, or applied microbiology. Ph.D. or equivalent required. Send a letter of application and curriculum vitae and names of three references by 1 February 1989 to: Biological Sciences Program at University of Michigan-Dearborn, Dearborn, MI 48128—1491. Review of applications will begin 1 February 1989. The University of Michigan—Dearborn is an Equal Opportunity/Affirmative Action Employer.

**MOLECULAR NEUROBIOLOGIST/PEPTIDE CHEMIST**

A faculty position is available in the Division of Endocrinology at Rhode Island Hospital for a research scientist (Ph.D.) with experience in molecular and biological sciences, or in chemical or synthetic peptide chemistry, to work on the design, synthesis, and testing of bioactive peptides as bioactive and/or antinflammatory precursors using pulse-chase techniques to join an active, well-equipped laboratory in neuroendocrine peptide biology and physiology. A track record of research accomplishments, research management skills, and potential for funding are essential. The successful candidate should have the potential for obtaining supporting independent research grants. The successful candidate will have a Ph.D., postdoctoral experience, and a track record of accomplishment in research and teaching and be expected to work in the division of Endocrinology and the Division of Medicine. Applicants should send curriculum vitae and names of three references to: Professor I. L. Scharschmidt, Division of Endocrinology, Rhode Island Hospital, Providence, RI 02903. An Equal Opportunity/Affirmative Action Employer.

**MOLECULAR SYSTEMS POSITIONS SMITHSONIAN INSTITUTION**

The National Museum of Natural History, Smithsonian Institution, is seeking two positions in the new Laboratory of Molecular Systematics and one of the following departments: Botany, Invertebrate Zoology, Vertebrate Zoology, Entomology, Anthropology or Paleobiology. For one of the two positions, priority will be given to candidates working on the systematics of higher plants. The duties of the incumbents are to develop independent research programs in one of the above disciplines, maintain strong ties to their department and interact with other scientists and staff of the Laboratory to promote an atmosphere of excellence. Tenure-track or non-tenure-track positions and research support are provided. Preferred applicants will have a Ph.D., postdoctoral experience, a strong record of research in systematics or evolution, and demonstrated expertise in a variety of molecular genetic methods relevant to the extraction of comparative information from nucleic acids and proteins. The Laboratory is located at the Smithsonian Institution’s Museum Support Center in Suitland, Maryland. Salary and grade levels will be commensurate with experience and qualifications. Applications should be submitted by 31 January 1989. Submit curriculum vitae, federal application form (SF-171), selected publications, and telephone numbers of three references to: Office of Personnel Administration, (Attention: Michael Araghtbarg MPA #7-1001), National Museum of Natural History, Building Room 1165, Jefferson Drive S.W., Washington, D.C. 20560. The Smithsonian Institution is an Equal Employment Opportunity Employer.
POSTDOCTORAL RESEARCH ASSOCIATE
HST OBSERVATIONS AND DATA ANALYSIS

The Laboratory for Atmospheric and Space Physics of the University of Colorado invites applications for the position of Research Associate. We anticipate an opening beginning in the fall of 1989 for participation in observations and data analysis for the Hubble Space Telescope (HST). The undersigned is the Principal Investigator for the Goddard High Resolution Spectrograph (GHRS) and the activities deal with the ultraviolet spectroscopy of comets and GHRS Team Projects covering a wide range of astrophysics. LASP facilities include the data analysis and operations control center for the Solar Mesosphere Explorer mission; a development node of the Planetary Data System; a complete space instrument design, fabrication, test and calibration facility; and modern computer facilities. In addition, there is an ongoing sounding rocket program, and payloads for shuttle-launched missions are being developed. The Laboratory is an Institute of the University's Graduate School and has close ties with the Departments of Astrophysical, Planetary and Atmospheric Sciences and of Aerospace Engineering Sciences.

A doctorate in an appropriate discipline is required; salary will be in accord with experience. Send letters of application with an up-to-date resume and the names of two references to:

Dr. John C. Brandt, PI-GHRS
LASP/University of Colorado
Campus Box 392
Boulder, CO 80309-0392

Applications will be accepted until February 1, 1989. The University of Colorado has a strong institutional commitment to the principle of diversity in all areas. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, members of ethnic minorities and disabled individuals.

BUILDING A NEW LAB?

LET THE SCIENCE FREE PRODUCT INFORMATION SERVICE PUT YOU IN TOUCH WITH THE VENDORS WHOSE PRODUCTS YOU WILL NEED.

SIMPLY WRITE US A LETTER STATING THE SPECIFICS ABOUT YOUR PROPOSED LAB AND WE WILL DO THE REST.

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SCIENCE MAGAZINE
NEW LAB SERVICE DEPT.
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NEW YORK, N.Y. 10036

RESEARCH ASSOCIATE
CARDIOVASCULAR PHARMACOLOGY

The Squibb Institute For Medical Research is recognized internationally as a leader in research & development of novel therapeutic agents for the treatment of cardiovascular & infectious diseases. We currently have an exceptional opportunity available for a Research Associate to join our Department of Pharmacology with an emphasis on hypertension and myocardial ischemia.

You will conduct research in a laboratory focused on the membrane and molecular mechanisms of excitation and contraction in smooth and cardiac muscles. This involves the study of cation channel function, the use of in vitro techniques for determining mechanical activity in muscle, the biochemical analysis of various muscle proteins and enzymes, and the fluorometric analysis of cation movements. Responsibilities also include some animal handling, operation of standard laboratory equipment, and the collection, analysis, and presentation of data.

Qualified candidates will have a B.S. in Biology or equivalent with a minimum of 3 years relevant laboratory experience.

For confidential consideration, please submit your resume to: The Squibb Institute For Medical Research Human Resource Department 146, P.O. Box 4000, Princeton, NJ 08543. An equal opportunity employer.

SUMMER 1989
TEN ENVIRONMENTAL SCIENCE AND ENGINEERING FELLOWSHIPS

Applications Invited

The American Association for the Advancement of Science (AAAS) invites applications for ten Environmental Science and Engineering Fellowships available for summer 1989. The Fellows will work closely with the Environmental Protection Agency (EPA), Office of Research and Development, and other program offices, in Washington, DC, and assist in identifying and assessing the significance of long-range environmental problems and opportunities. The ten-week appointments are scheduled for 5 June through 11 August 1989. The awards will be announced prior to the end of April 1989.

Postdoctoral to mid-career scientists, engineers, and other appropriate professionals are encouraged to apply. Candidates may be from the physical, biological, or behavioral sciences, or any field of engineering or other relevant professional fields. They are expected to be critical thinkers, articulate, adaptable, and able to work with a variety of people from different professional backgrounds.

The 1989 Environmental Fellows will receive a taxable stipend of $750 per week and a nominal additional amount for temporary relocation expenses and travel in connection with the fellowships.

A detailed, future-oriented research project will be conducted by each Fellow, which is of mutual interest to him or herself and the EPA. A project report will be submitted at the completion of the summer’s work. Typical areas of research interest within EPA include: environmental risk assessment; biological pesticides; acid deposition; mobile source air pollution; oxidants, gases and particles; municipal waste water and spills; drinking water; hazardous waste; chemical testing and assessment; pesticides; radiation; and energy.

For further information and specific application requirements contact:

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

Deadline for applications is 1 March 1989
PLANT MOLECULAR BIOLOGIST
MCGILL UNIVERSITY

The Department of Biology invites applications for a tenure-track position in plant molecular biology. The successful candidate will be expected to develop a research program and to contribute to graduate and undergraduate teaching. The department has excellent facilities for plant growth and tissue culture.

The starting date will be on or before 1 September 1989. Rank and salary will be commensurate with experience.

Send curriculum vitae, statement of research interest, representative reprints, and three letters of reference to:

Dr. Basir Mukherjee, Chairman,
Department of Biology
McGill University, 1205 Avenue Docteur Penfield
Montreal, Quebec, Canada H3A 1B1

Deadline for applications 15 February 1989.

U.S. DEPARTMENT OF AGRICULTURE (USDA), AGRICULTURE RESEARCH SERVICE (ARS)

POSTDOCTORAL BIOCHEMIST/MOLECULAR BIOLOGIST, Gainesville, Florida. Two-year appointment. Education and/or experience in recombinant DNA techniques and isolation cloning, and evaluation of relevant DNA preferred. Ph.D. must have been received within past 3 years. Salary: commensurate with experience ($27,716 to $33,218). For more information, contact: Dr. D. A. Carlson at 904-794-0092. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study regulation of eukaryotic gene expression in primary hepatocytes and normal and transformed hepa
tocyte cell lines. Experience in molecular biology preferred. Send curriculum vitae, brief description of Ph.D. research, and names and addresses of three references to: Dr. H. C. Joos, Department of Microbiology and Immunology, The Pennsylvania State University College of Medicine, Hershey, PA 17033. An Equal Opportunity/Affirmative Action Employer.

PHYSICS Division of the National Institute of Standards and Technology, NIST, Gaithersburg, Maryland. The Division of Physics invites qualified candidates to apply for a postdoctoral research position in the area of x-ray holography and diffraction. The Division of Physics is one of the laboratories of the National Institute of Standards and Technology, which is an agency of the U.S. Department of Commerce. The Division participates in national and international research and development programs in theoretical and physical sciences and engineering, including basic research, applied research, and standards development. The Division's research focuses on areas of basic scientific interest and utility to the Nation. The research areas of the Division are atomic, molecular, and optical physics, neutron physics, occasionally nuclear physics, and biophysics.

Salary: $30,000 per year. M.I.T. is a non-smoking environment.

Interested candidates should send two copies of both resume and cover letter referencing Job #88-242 to: Dr. Ethan R. Singer, c/o M.I.T. Personnel Office, 400 Main Street (Bldg. E19-239), Cambridge, MA 02139.

M.I.T. IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

The newly created Department of Ecology invites applications for a POSITION IN ECOLOGY, behavioral ecology, physiological ecology, population genetics or evolutionary biology. Our research projects aim at combining theoretical and empirical as well as ultimate and proximate approaches to the study of adaptation. The animals under study are mainly amphibians and birds, but other vertebrate taxa are not excluded.

Applicants must possess a Ph.D., some postdoctoral experience is also desirable. The successful candidate is expected to participate in ongoing research and teaching programmes and to develop his/her own programme. The position is available from January 20th 1989 for a period of three years. If you are interested, please, send me your application with curriculum vitae, list of publications, summary of research goals and letter(s) of reference.

Prof. Dr. Heinz-Ulrich Reyner
Zoologisches Institut
der Universität Zürich
Winterhurterstrasse 190
CH-8057 Zürich
Schweiz
SCIENCE has 153,192* good reasons for being number one.

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The pre-eminence of SCIENCE as the definitive life science journal starts with our circulation, a full 435% greater than our nearest rival! But that's only one reason for our supremacy. SCIENCE reaches more doctoral scientists, more NIH/Hughes Institute grant recipients, more U.S. science policy leaders than any other publication. For working scientists who must keep in touch with the life sciences universe, there is no choice but to read SCIENCE. For businesses with products or services to sell them, there is no choice but to advertise in SCIENCE.

*ABC Audit, 6/88  †BPA Audit, 12/87

SCHERAGO ASSOCIATES, INC.
1515 Broadway, New York, N.Y. 10036 • (212) 730-1050
POSTDOCTORAL POSITION

POSTDOCTORAL POSITION: The Dana-Farber Cancer Institute is seeking to fill one research position at the postdoctoral level. The candidate will be responsible for T-cell products that regulate the immune response in collaboration with other laboratory investigators. A joint appointment in the appropriate department of Harvard Medical School. Send curriculum vitae and names of two references to: Dr. Harvey Cantor, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. An Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available immediately to study membrane transport and mechanisms of proteolysis in muscle and cells. The applicant should be familiar with protein pharmacology, and cell culture techniques. The position is to study the influence of abundances in cation transport and intracellular ions on protein. Send resume and three reference letters: William E. Mitch, M.D., Director, Renal Division, Emory University School of Medicine, Atlanta, GA 30322. Emory University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to join a research team working on molecular approaches to study viral diseases. Experience in biochemistry, molecular biology or cell biology required. Salary will be commensurate with experience and qualifications. Excellent fringe benefits. Send curriculum vitae, a brief summary of research interests, and three letters of reference to: Dr. Beatrice G. T. Pogo, Box 1061, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029–6574. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

UNIVERSITY OF CALIFORNIA, IRVINE

An opening is available immediately to study the cellular mechanisms of reinforcement and memory. Faculty, scientific environment, and funding for these studies are excellent. Applicants with backgrounds in neuropharmacology or neuropharmacology will have an ideal opportunity to pursue their work and to identify new research directions. Send curriculum vitae and references to: Dr. Larry Stein, Department of Pharmacology, University of California, Irvine, CA 92717. Telephone: 714-556–6771. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN MOYCOBACTERIOLOGY RESEARCH

Applications from qualified scientists are invited for three NIH-funded Postdoctoral Fellowships in mycobacteriology in the Mycobacteriology Research Center. These positions involve studies of immunopathology or experimental chemotherapy of mycobacterial diseases. A doctoral degree in microbiology, immunology or pharmacology, preferably with experience in mycobacterial pathogens, is required. Interested candidates should submit the curriculum vitae, along with names of three references, to: Dr. Pattanapong R. J. Gangadharan, Director, Mycobacteriology Research, National Jewish Center for Immunology and Respiratory Medicine, 1400 Jackson Street, Denver, CO 80206. Deadline for applications is 15 January 1989.

POSTDOCTORAL RESEARCH POSITION

Applications are invited for a postdoctoral position to study a novel system of regulation of gene expression and DNA replication by silicon in a lower eukaryote, by analysis of gene banks. Created yeast genes have been used successfully to identify diatom genes of similar function and at least one yeast mutation leu 2– has been complemented using cloned diatom DNA sequences. Background in molecular biology. Proximity in recombinant DNA techniques: cDNA cloning, analysis of gene banks, vector construction, Southern and Northern blotting, and DNA sequencing are required. Send curriculum vitae and names of three references to: Dr. Jonathan B. Cohen, Department of Anatomy and Neurobiology, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110. Equal Opportunity/Affirmative Action Employer.
POSTDOCTORAL RESEARCH on the Effect of Mutations at an Enzyme Active Site on Function. A position is available for a candidate with research experience in enzymology or biophysical chemistry to join a research group active in this area (see J. Biol. Chem. 263, 9187 (1988)). Training will be provided in methods for studying ligand binding, conformational equilibria and catalysis, include methods for the study of transient properties. Starting salary: $22,000 or higher depending on relevant experience. To apply send curriculum vitae and three references to: Dr. R. L. Blakley, Department of Biochemical and Clinical Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101. An Equal Opportunity Employer.

TWO POSTDOCTORATE POSITIONS are available at Bay Area non-profit research Institute. MOLECULAR BIOLOGIST: This position requires a person experienced in cDNA cloning and related techniques to participate in study of the molecular biology of antigenic variation in bacteria, aimed at immunologists. IMMUNO BIOLOGIST: To conduct research in breast cancer antigens and immunotherapy with monoclonal antibodies. Applicant with experience in serum immunology, pharmacology, and/or radiobiology is being sought. Available 1 January 1989. Salary ranges from $25,000 to $32,000, based on experience. To apply, forward CV and letters of recommendation to: Professor H. L. Cerami, M.D., Ph.D./Jerry A. Peterson, Ph.D., John Muir Cancer and Aging Research Institute, 2055 North Broadway, Walnut Creek, CA 94596. Telephone: 415-942-1167.

PROFESSOR AND CHAIRPERSON DEPARTMENT OF PHYSIOLOGY ST. LOUIS UNIVERSITY SCHOOL OF MEDICINE

The St. Louis University School of Medicine invites applications for the position of Professor and Chairperson of the Department of Physiology, St. Louis University School of Medicine. We are particularly looking for a scientist with an outstanding record of accomplishment in research and a commitment to medical, allied health professions and graduate education. Curriculum vitae and names and addresses of three references should be submitted to:

Dr. Thomas C. Westfall
Chairman, Search Committee for Physiology
Department of Pharmacology
St. Louis University School of Medicine
1402 South Grand Boulevard
St. Louis, MO 63104

Application deadline is 15 March 1989. St. Louis University is an Equal Opportunity Employer. M/F/V/H.

The Harvard Medical School and the Massachusetts General Hospital are an outstanding scientific (M.D. and/or Ph.D.) to fill a new tenured PROFESSORSHIP in the area of tumor biology. The individual’s laboratories will be located at the recently developed Cancer Center of the Massachusetts General Hospital in Charlestown with over $5,000 square feet of research space. A major role will be to help guide the direction of the basic research effort of the Cancer Center and to be involved in training postdoctoral as well as graduate students. The individual selected will play a key role in the recruitment of faculty and hire, and will ensure the scientific excellence of the ongoing research. The individual selected will share, to a greater or lesser extent, in the administrative aspects of the Cancer Center and participate in the teaching activities of the Harvard Medical School department with which he or she will be affiliated. Salary and space negotiable.

Applicants should be forwarded to: Dr. Kurt J. Isselbacher, Chair, ad hoc Committee for Tumor Biology, Massachusetts General Hospital, Boston, MA 02114 and 10380 (1988). Inquiries are cordially invited of Equal Opportunity/Affirmative Action Employers.

RESEARCH ASSOCIATE and POSTDOCTORAL FELLOW

(Two positions) Quantification of recombinant DNA methods. Salary commensurate with qualifications. Send inquiries and curriculum vitae to: Office of Personnel, Code 2037, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02118. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH on the Effect of Mutations at an Enzyme Active Site on Function. A position is available for a candidate with research experience in enzymology or biophysical chemistry to join a research group active in this area (see J. Biol. Chem. 263, 9187 (1988)). Training will be provided in methods for studying ligand binding, conformational equilibria and catalysis, include methods for the study of transient properties. Starting salary: $22,000 or higher depending on relevant experience. To apply send curriculum vitae and three references to: Dr. R. L. Blakley, Department of Biochemical and Clinical Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101. An Equal Opportunity Employer.

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PROFESSOR AND CHAIRPERSON DEPARTMENT OF PHYSIOLOGY ST. LOUIS UNIVERSITY SCHOOL OF MEDICINE

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Dr. Thomas C. Westfall
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1402 South Grand Boulevard
St. Louis, MO 63104

Application deadline is 15 March 1989. St. Louis University is an Equal Opportunity Employer. M/F/V/H.

The Harvard Medical School and the Massachusetts General Hospital are an outstanding scientific (M.D. and/or Ph.D.) to fill a new tenured PROFESSORSHIP in the area of tumor biology. The individual’s laboratories will be located at the recently developed Cancer Center of the Massachusetts General Hospital in Charlestown with over $5,000 square feet of research space. A major role will be to help guide the direction of the basic research effort of the Cancer Center and to be involved in training postdoctoral as well as graduate students. The individual selected will play a key role in the recruitment of faculty and hire, and will ensure the scientific excellence of the ongoing research. The individual selected will share, to a greater or lesser extent, in the administrative aspects of the Cancer Center and participate in the teaching activities of the Harvard Medical School department with which he or she will be affiliated. Salary and space negotiable.

Applicants should be forwarded to: Dr. Kurt J. Isselbacher, Chair, ad hoc Committee for Tumor Biology, Massachusetts General Hospital, Boston, MA 02114 and 10380 (1988). Inquiries are cordially invited of Equal Opportunity/Affirmative Action Employers.

RESEARCH ASSOCIATE and POSTDOCTORAL FELLOW

(Two positions) Quantification of recombinant DNA methods. Salary commensurate with qualifications. Send inquiries and curriculum vitae to: Office of Personnel, Code 2037, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02118. An Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

SENIOR FACULTY POSITION IN ENVIRONMENTAL SCIENCES, University of California, Los Angeles. Faculty Position in Environmental Science and Engineering (ESE), School of Public Health. Upper level tenure-track appointment in the Interdepartmental Environmental Engineering Program and, jointly, in the Division of Environmental and Occupational Health Sciences. The candidate should have the potential to be director of the ESE program. Research and teaching in an environmentally pertinent area of biology, microbiology, chemistry, or biochemistry, as broadly defined. The ESE Program emphasizes the relationship between science and public policy, so a demonstrated interest in this relationship plus an outstanding record of research in a specialized area is required. Opportunity to apply for the M.S. and Ph.D. training programs of the Division and for interaction with engineers and basic scientists from other departments as biology, microbiology, biological chemistry, chemistry, engineering, earth sciences, etc. Send curriculum vitae, statement of research and teaching goals, and names of three references by 15 March 1989 to: Robert A. Mah, Chair, ESE Search Committee, School of Public Health, UCLA, Los Angeles, CA 90024. UCLA is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

SHELLFISH DISEASE RESEARCH SCIENTIST

Maryland Department of Natural Resources has three positions in research on oyster health in Oxford, Maryland. Emphasis on diagnostic tests and disease processes. Send résumé and references to: Dr. George E. Kroeze, Director, Cooperative Oxford Laboratory, South Morris Street, Oxford, MD 21654.

INTERNSHIPS

NASA PLANETARY BIOLOGY INTERNSHIPS. At NASA’s Kennedy Space Center, Cape Canaveral, Florida, opportunities are available for college undergraduates to participate in NASA’s planetary biology research program. NASA is interested in recruiting students who are majoring in biology, biology-related sciences, or engineering. Students will work with NASA scientists on research projects. Opportunities are available to work at the Center for Photosynthetic Biology Research from July 14 to September 14. Interested students should contact: NASA, M.S. 270, Code 366, Kennedy Space Center, Cape Canaveral, Florida 32925. Telephone: 305-864-3919.

FELLOWSHIPS

CANCER RESEARCH POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY, ENDOCRINOLOGY, IMMUNOLOGY, AND TUMOR BIOLOGY

The University of Rochester Cancer Center invites applications for postdoctoral positions in our research training program for 2 years beginning in 1989. The program is conducted in an integrated research and clinical setting and provides laboratory research training in a specific area of cancer research as well as a comprehensive exposure to the biology and biochemistry of cancer. Projects involve molecular cloning and structural analysis of genes encoding regulatory proteins, the role of oncogenes in carcinogenesis and the molecular biology of carcinogenic-activating drug metabolizing enzymes, molecular mechanisms of hormonal and nutritional regulation of the expression of specific proteins, characterization of tumor antigens and applications of hybridoma technology, the design and synthesis of new agents to increase cytotoxic drug selectivity, and the evaluation of heterogeneous cell populations in tumors and their influence on responses to therapy. Please send résumé and three letters of recommendation to: Dr. Edgar Henshaw, University of Rochester Cancer Center, 601 Elmwood Avenue, Box 704, Rochester, NY 14642. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS NOMINATIONS AND APPLICATIONS NOW BEING ACCEPTED FOR THE MCMASTER INSTITUTE JUNIOR FELLOWS PROGRAM

The McMaster Institute and the Center for Photochemical Sciences at Bowing Green State University are accepting applications for a full-fellowship program for Ph.D. study in the photochemical sciences. Successful Fellows will be selected from a pool of undergraduate students wishing to pursue doctoral studies in the photochemical sciences at the University. Potential applicants with undergraduate degree in physics, physical chemistry, and related areas must be nominated by faculty members from their undergraduate institutions. For further information on the program and its eligibility requirements, contact: Dr. D. C. Neckers, Center for Photochemical Sciences, Bowling Green State University, Bowling Green, OH 43403 Telephone: 419-372-2031

GRADUATE FELLOWSHIPS CENTER FOR THE STUDY OF EVOLUTION (CSEO) AND THE ORIGIN OF LIFE

CSEO, invites applications for three first-year predoc toral fellowships for 1989-1990. Stipends are each $9137 for 9 months with no teaching or other duties. Fellows are included in a select group of former Fellows and other graduate students invited to interact with Center faculty in a weekly dinner/seminar/discussion series. Applicants should be planning to carry out thesis research under the supervision of a CSEO faculty member and in a subject area relating to evolution, broadly construed—of the solar system, of Earth, of the environment, of, of humans. Areas of particular interest for 1989-1990 include: (i) the origin of life; (ii) biochemical phylogeny; (iii) Precambrian biotic-environmental evolution; and (iv) the interface between molecular biology and the fossil record. Faculty are members of the UCLA Departments of Anthropology, Astronomy, Atmospheric Sciences, Biology, Chemistry and Biochemistry, Earth and Space Science, Geography, and Microbiology; the School of Medicine (Anatomy; Microbiology and Immunology; Physiology); Psychology; Radiology; and the School of Public Health. Fellowship applicants must apply by 31 March 1989, both to an appropriate academic department and to CSEO. Application forms and a list of CSEO members, contact:

CSEO Fellows Committee
Geology Building, Room 5687
University of California, Los Angeles
Los Angeles, CA 90024-1567
Telephone: 213-825-1170

FELLOWSHIPS

HUDSON RIVER FOUNDATION FELLOWSHIPS

DOCTORAL FELLOWSHIPS sponsor doctoral research on topics of environmental, ecological, and public health concern to the Hudson River estuary. The Fellowships provide a stipend of $11,000, plus $1,000 in travel and supplies. Applications must be received by 31 March 1989.

TIBOR T. POLGAR FELLOWSHIPS support undergraduate and graduate students doing research related to the chemical, physical, and biological, and public policy aspects of the Hudson River estuary. Summer salaries of $3500 and limited research funds will be provided. Submitting professors will receive a $250 stipend. Proposals must be submitted by 31 March 1989. Information on how to apply for either fellowship may be obtained by contacting the Foundation.

TRAINING PROGRAMS

PRE- AND POSTDOCTORAL TRAINING IN NEUROBIOLOGY

The Department of Physiology and Neurobiology at the University of Connecticut, through an NIH training grant, is offering pre- and postdoctoral training in neurobiology. Areas of specialization and laboratories include: Molecular Neurobiology, Jonathan Covault; Developmental and Cellular Neurobiology, Lynn Landneser and Guillermo Pilar; Auditory Physiology, Andrew Moiseff; Physiology of Movement, William Chapelle; Neurotoxicology, Robert Gallo; and Biological Rhythms and Reproductive Behavior, Bruce Goldman. Send curriculum vitae and names of three references to: Lynn Landnesser, University of Connecticut, Box U-42, 75 North Eagleville Road, Storrs, CT 06268. Affirmative Action/Equal Opportunity Employer.

PRE- AND POSTDOCTORAL TRAINING IN TOXICOLOGY—Pre- and postdoctoral trainee positions, supported by the National Institute of Environmental Health Sciences (NIEHS), are available at Oregon State University through the Toxicology Program and the Environmental Health Sciences Center. Trainees will engage in research with emphasis on basic mechanisms for toxicity of environmental agents. Fellowships are available on a competitive basis to applicants (U.S. citizens and permanent residents only) with training in chemistry, biochemistry, pharmacology, or the biological sciences. To apply for a NIEHS Training Fellowship, send current curriculum vitae, academic records, and three letters of reference to: Donald R. Buhler, Ph.D., Chairman, Toxicology Program, Environmental Health Sciences Center, Oregon State University, Weniger Hall 317, Corvalis, OR 97331–6054 (Telephone: 503-754-2363). Closing date is 1 March 1989. OSU is an Equal Opportunity/Affirmative Action Employer and complies with Section 504 of the Rehabilitation Act of 1973.

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