PERSONAL PLACEMENT

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing, no abbreviations. No deadline in ad must be at least 2 weeks after date of issue in which ad appears. Also, personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of sex, religion, age, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline any advertising.

LINE CLASSIFIED ADVERTISING DEADLINES:

Thursday, 10 a.m., 2 weeks prior to issue date (mailed on issue date), Monday, 1 p.m., deadline for display advertising, please contact Scharago Associates.

POSITIONS WANTED

40¢ per word, plus $4 for use of box number, per week, $10 minimum per week; Prepayment required. This rate is available to individuals seeking jobs. After 1 January 1990, the rate is 50¢ per word for use of box number, $15 minimum per week.

LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth): $40 per line, $10 per line, minimum charge $10, due 10 days prior to publication, or space available. 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 required for all other advertising.

TO ESTIMATE ad cost:

Structure ad copy on a separate page, on lines of 52 characters and spaces. Include any desired heading. Each line of heading, and extra line space, and all partial lines (including centered reply information) are counted as 12 characters. Characters located within the text are printed in boldface type and are only 52 characters per line. In ESTIMATING the cost, multiply total lines x $40. Prepayment only. For ads to appear after 1 January 1990, multiply total lines x $41. (This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and the final ad. Final space charges must allow for some degree of flexibility and/or adjustment.)

CANCELLATION POLICY:

NOTE: Ads cancelled after made Thursday, TWO weeks prior to issue date incur a 15% 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 1/6 page in size (30 lines) to:

SCIENCE Classified Advertising
1156 16th St., NW, Room 840
Washington, DC 20036
Telephone: 202-326-1500
Fax: 202-326-0216

Send copy for Fractional Display ads, 1/6 page and larger, and classified text to:
Scharago Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-270-1050
Fax: 212-382-3715

Blind ad replies should be addressed as follows:

Box (give number) SCIENCE
1333 H Street, NW
Washington, DC 20005

POSITIONS WANTED


Crystal Grower and Thin Films Preparationist. Considerable experience in the growth of inorganic crystals. Single crystals were grown to study their optical, magnetic, and superconductivity. thin films were prepared for superconducting studies and ion implantation. Thin film devices have been fabricated by photolithography and evaporation. Consistent experience in the ultrahigh vacuum. Also experienced in cryogenic techniques. L. H. Peirce, 914 Abbigael Drive, Tallahassee, FL 32303.

Medical Microbiologist, Ph.D. Seeks teaching position in Chicago area. Extensive experience teaching and research in bacteriology. New Science and Microbiology. Publications. Box 252, SCIENCE.

Ph.D., Pharmacology and Toxicology (1987). Experience in protein purification and characterization, several immunological techniques, in vivo and in vitro studies. HPLC, and GC. Three years of postdoctoral experience in molecular biology, including genomic and cDNA cloning, gene characterization, and DNA sequencing. Seeks research position in industry. Box 253, SCIENCE.

POSITIONS OPEN

AGRICULTURAL ENTOMOLOGIST

The Department of Entomology, University of California, Davis, announces a position in applied entomology (11 months plus 1 month paid vacation) at the ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR level. This position will be involved in undergraduate and graduate instruction and advising in entomology, supervise graduate students, and participate in the plant protection and pest management program courses. The appointee will develop research on the evaluation, manipulation, and enhancement of natural enemies of arthropod pests in vegetable and field cropping systems. Successful candidates will have a commitment to research and teaching potential essential. Letter of application, curriculum vitae, transcripts, reprints, a statement of research interests and career goals, and the names and addresses of three referees should be sent to: Michael P. Parrella, Chair of the Search Committee, Department of Entomology, University of California, Davis, CA 95616 by 9 February 1990. The University of California is an Affirmative Action/Equal Opportunity Employer.

The Department of Biological Sciences at the University of Alabama in Huntsville announces a full-time, tenure-earning teaching/research position in microbiology/immunology beginning Fall 1989; candidates to seek Ph.D. or Associate Professor able to teach undergraduate and graduate courses in microbiology, immunology, and for a position at the Ph.D. level additional required. Postdoctoral experience desirable. Salary competitive, based on qualifications and experience. Send letter of application, copies of publications, and names, addresses of three references to the recommendation to: Chairman, Microbiology Search Committee, The University of Alabama in Huntsville, Huntsville, AL 35899. Deadline for submission: 1 February 1990 or until suitable candidate is found. The University of Alabama is an Affirmative Action/Equal Opportunity Institution.

BIOLOGICAL SCIENCES, GAYME PHYSICIST.

The Reproductive Physiologist and Endocrinologist in the Department of Biological Sciences at Kent State University is seeking applications for a tenure-track position at the ASSISTANT PROFESSOR level to start August 1990. Research training and experience should be in the area of gamete physiology, preferably using mammalian models. The appointee will be expected to develop a strong research program complementary to ongoing research. The appointee will receive start-up extra-mural funding, and to participate in recruiting and advising graduate students. Instructional responsibilities include teaching assistant and level course in gamete physiology and an undergraduate physiology course. Applicants must have the Ph.D. or equivalent with postdoctoral experience, publications, and the potential for extramural funding. Salary is dependent upon qualifications and experience. The deadline for receipt of applications is 31 January 1990 and must include a letter of application, a resume, three letters of recommendation, and copies of all academic transcripts. Submit applications and supporting material to: Dr. Walter C. Adams, Professor Chair, Department of Biological Sciences Kent State University Kent, OH 44422.

ASSISTANT PROFESSOR. Applications are invited for a position at the tenure-track (tenure- track) in the Department of Chemistry at Stanford University, with primary research and teaching interests in the general area of inorganic chemistry. Applicants must have a Ph.D. and be strongly motivated to establish a research program and to have a commitment to teaching at the undergraduate and graduate level. In applying, please send curriculum vitae, list of publications, a brief statement of research interests (three pages or less), and, in addition, have three letters of recommendation sent to: Professor Harden M. McConnell, Chairman, Department of Chemistry, Stanford University, Stanford, CA 94305. Stanford is committed to Equal Opportunity through Affirmative Action in employment, and we are especially eager to identify minority persons and women with outstanding qualifications. Applications should be received by 19 January 1990.
POSITIONS OPEN

AGRICULTURAL ENTOMOLOGIST
COOPERATIVE EXTENSION SPECIALIST

The Department of Entomology, University of California, Davis, announces a career-track position in entomology (11 months plus 1 month paid vacation) at the assistant professor level (90% FTE) and as assistant entomologist level in the Agricultural Experiment Station (30%). Ph.D. in entomology emphasizing field IPM required; ability to effectively communicate orally and in research programs and research excellence necessary. Appointee expected to do original research and extend knowledge relative to insect management in currently used and potential alternative field or vegetable cropping systems. Activities must address needs of diverse ethnic and gender population groups. Letter of application, curriculum vitae, transcripts, reprints, names and addresses of three referees, and a brief statement of career goals should be sent to: Frank G. Zalom, Chair of the Search Committee, Department of Entomology, University of California, Davis, CA 95616 by 12 January 1990. The University of California is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, TENURE TRACK

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

ASSISTANT PROFESSOR
MICROBIOLOGY
LOUISIANA STATE UNIVERSITY

The Department of Microbiology has a tenure-track position available in 1990 for a candidate with a Ph.D. degree and at least 2 years of postdoctoral experience. We are seeking a candidate who uses molecular techniques to study important problems in either prokaryotic or eukaryotic microbiology. The successful candidate will have access to excellent facilities for the analysis and synthesis of macromolecules. Salary is competitive and commensurate with qualifications and experience. Review of applications will continue until a suitable candidate is found. Please submit: a letter stating present and future research efforts, and the names and addresses of three references to: Dr. M. D. Soccolovsky, Department of Microbiology, Louisiana State University, Baton Rouge, LA 70803-1715.

Louisiana State University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR
MOLECULAR/CELLLULAR NEUROBIOLOGY

The Department of Neurobiology and Physiology, Northwestern University, invites applications and nominations for a tenure-track faculty position at the rank of ASSISTANT PROFESSOR beginning fall 1990. Outstanding applicants working in any area of neuroscience will be considered. Candidates working in molecular or cellular neurobiology are particularly encouraged to apply. There are 21 faculty in the department with research interests in sensory neurobiology, neuromodulation, endocrinology, development, and plasticity. The department is a central component of the newly formed Institute for Neuroscience, consisting of over 70 faculty. Our department and the Department of Biochemistry, Molecular Biology, and Cell Biology form the life sciences curriculum at the Evanston campus. Applicants should have a Ph.D. or M.D. and have completed postdoctoral training. Curriculum vitae, list of publications, a description of current and future research, and three letters of recommendation should be sent to: Dr. Lawrence Pinto, Search Committee Chairman, Department of Neurobiology and Physiology, Northwestern University, 2153 Sheridan Road, Evanston, IL 60208.

Northwestern University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSORS OF MICROBIOLOGY, TENURE TRACK

The University of Illinois College of Medicine at Rockford seeks to add one or two tenure-track assistant professors of microbiology to its diversified Department of Biomedical Sciences. Responsibilities will be on excellence in research. Contribution to a team-taught course in medical pharmacology and/or medical microbiology is expected. Submit curriculum vitae, a short statement of research interests, and the names and addresses of three referees to: Dr. Raymond Quock, Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford, 1601 Parkview Ave., Rockford, IL 61107-1897. Applications will be reviewed starting 1 February 1990. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, MICROBIOLOGY

Applications are invited for a tenure-track position in immunology or microbial physiology/molecular genetics. Applicants must have a doctorate in microbiology or related field, and postdoctoral research experience. The successful candidate will develop a productive research program. Duties include directing M.S. and Ph.D. students, as well as teaching undergraduate and graduate courses. Salaries are competitive, and the names and addresses of three references to: Dr. George Pack, Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford, 1601 Parkview Ave., Rockford, IL 61107. Applications will be reviewed starting 1 January 1990. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, NEUROPHYSIOLOGY

Faculty position at an ASSISTANT PROFESSOR level available in the Neuroscience Research Unit of the Department of Psychiatry of the University of Vermont College of Medicine (UVM). Applications are invited from qualified Ph.D.'s with strong research credentials in either neurophysiology or patch-clamp techniques in cell culture systems related to mammalian CNS neurons. Salary commensurate with qualifications and experience. Send curriculum vitae, representative reprints, statement of future research goals, and the names and addresses of three referees to: R. H. Lenox, M.D., Director, Neuroscience Research Unit, Department of Psychiatry, University of Vermont College of Medicine, Burlington, VT 05405. Applications accepted until position filled. UVM is an Equal Opportunity/Affirmative Action Employer. Women and men are encouraged to apply.

DEPARTMENT OF ZOOLOGY
MIAMI UNIVERSITY

The Department of Zoology at Miami University intends to make one tenure-track ASSISTANT PROFESSOR appointment effective Fall 1990. A Ph.D. in zoology/biology is required. On the Oxford Campus, we are looking for: (i) a MOLECULAR BIOLOGIST trained in development biology and/or genetics; teaching duties include graduate and undergraduate courses in a new interdepartmental program in molecular biology and biotechnology; (ii) a DEVELOPMENTAL BIOLOGIST working at the cell or molecular level; teaching duties include a rotational basis an advanced specialty course in developmental biology and an introductory program, and comparative vertebrate anatomy. The successful applicants also are expected to develop an active research program and be able to seek external funding for it. On the Middletown Campus, we are seeking someone to teach courses offered in the first two years of our baccalaureate program, including comparative anatomy and animal physiology. Advancement will be dependent on a combination of teaching, service, and scholarly activities.

Application review will begin 22 January 1990. Applicants should specify the position in which they are interested, and send a résumé, transcripts of all academic work, a description of research and teaching interests, and three letters of reference to: R. G. Sherman, Department of Zoology, Miami University, Oxford, OH 45065.

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

RESEARCH SCIENTIST/SENIOR RESEARCH SCIENTIST

A$31,525–A$45,699

plus District Allowance of A$2,160 pa with dependants and A$1,170 pa without dependants

Centre for Arid Zone Research
Alice Springs NT
AUSTRALIA

FIELD: Erosion modelling for arid land

GENERAL: The Division of Wildlife and Ecology, in collaboration with other groups is developing a research program to support State and land management initiatives in Australia's arid and semi-arid rangelands.

The program has three components:
1. assessment of land degradation and the forecasting of degradation risk
2. development and evaluation of land management techniques to allow sustainable production and the restoration of previously degraded areas
3. creation and marketing of decision support systems to deliver research results to users through the RANGEPACK system which already has significant market penetration.

The Centre for Arid Zone Research will concentrate on the arid zone component of these topics but is also interested in support other groups through its expertise in remote sensing, modelling of processes at the landscape scale, and whole-property decision support systems. The Centre currently has 18 staff including 9 scientists working on a wide range of problems in arid zone ecology and land management.

DUTIES: Develop and calibrate physically-based distributed models of erosion and deposition at the landscape scale. Determine the effects of these processes on vegetation at different timescales. Provide linkages between these models and already-developed landscape-scale erosion forecasting models based on remote sensing data and signal processing techniques in the microBRAN image processing package.

QUALIFICATIONS: A Ph.D. or equivalent in physics, engineering, soil science or geomorphology. Good mathematical skills and ability to write software essential. Experience with remotely-sensing and/or hydrologic modelling desirable.

TENURE: Indefinite with Australian Government Superannuation benefits.

APPLICATIONS: Quoting reference no. PG66, relevant personal particulars including details of qualifications, experience, and the names of at least two professional referees should be forwarded to:

The Officer-in-Charge
CSIRO Centre for Arid Zone Research
PO Box 2111
ALICE SPRINGS
NT 0871
AUSTRALIA

by 31 January 1990.

ENQUIRIES: Dr. G. Pickup, telephone 6189 524 2555, fax 6189 52 9587.
ASSISTANT/ASSOCIATE PROFESSOR. The Hospital for Sick Children Research Institute wishes to recruit an individual with research interests in ion transport within the lung. Priority will be given to the applicant with an interest in second messenger control mechanism for sodium ion channels. Applicants should submit curriculum vitae, a brief statement of their research interests, selected reprints, and the names of three references to: Dr. David W. O'Brodovich, Chair, Department of Respiratory Physiology, Hospital for Sick Children, 555 University Avenue, Toronto, MSG 1X8, Canada. Deadline: 18 February 1990. Applications are invited from candidates specializing in cognitive development or cognitive or developmental psychology. Candidates must have a Ph.D. in psychology and show evidence of an active research program. Send curriculum vitae and letters of recommendation to: Professor T. M. Alloway, Associate Chair, Department of Psychology, Erindale Campus, University of Toronto, 200 College Street, Toronto, Ontario, Canada, L5L 1C6, before 1 February 1990. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. The University of Toronto encourages applications from qualified men and women, members of visible minorities, and persons with disabilities.

ASSISTANT PROFESSOR, BIOLOGICAL SCIENCES. The Molecular Biology Institute of the University of California at Los Angeles has an opening for a tenure-track assistant professor. The institute comprises 70 faculty members from six departments who use structural, biochemical, genetic, and molecular approaches to study fundamental biological processes. Applicants should have a Ph.D. in molecular biology or a closely related field, and two years of postdoctoral experience. Applicants should have a strong record of research in areas of research interest in any area of molecular, cellular, or developmental biology are encouraged to apply. Candidates with a record of excellent research in biology are encouraged to apply. Candidates with research interests in any area of molecular, cellular, or developmental biology are encouraged to apply. Candidates with a Ph.D. in molecular biology or a closely related field, and two years of postdoctoral experience. Applicants should have a strong record of research in areas of research interest. Send curriculum vitae, a one-page summary of research plans, and three letters of reference received before 1 February 1990 to:

The MBI Search Committee
Molecular Biology Institute
University of California
Los Angeles, CA 90095-1570
FAX: 213-206-7286
The University of California is an Equal Opportunity Employer. Applications from women and members of minority groups are encouraged.

ASSISTANT PROFESSOR, PATHOLOGY. The Department of Pathology and Laboratory Medicine at Brown University is seeking an experimental pathologist for a campus-based position as assistant professor of medical science. The successful candidate is expected to develop an independent research program, supported by external funds, involving the study of basic mechanisms of disease pathogenesis. Teaching duties involve participation in courses in general or systemic pathology to medical students and training and advising undergraduate and graduate students. Candidates should have an M.D. or Ph.D. in pathology or a closely related field, and a minimum of 2 years of postdoctoral or residency research training in pathology. Preference will be given to candidates with an M.D. degree with research experience in an area related to molecular pathology. Opportunities for the practice of pathology on a part-time basis are available through Brown University affiliated hospitals for suitable candidates. Send curriculum vitae, recent reprints, a description of career objectives and research plans, and three letters of reference to: Dr. Joan L. Hunter, Chair, Department of Pathology and Laboratory Medicine, Division of Biology and Medicine, Brown University, Providence, R.I. 02912. Brown University is an Equal Opportunity/Affirmative Action Employer. Applications are expected by 15 February 1990.

ASSISTANT PROFESSOR IN Residence. The Department of Biomedical Research faculty position available for well-trained investigator with Ph.D. in biochemistry, physiology, or related discipline to generate a research program in glucose and insulin metabolism. Experience in whole animal physiologic and metabolic studies as well as modern in vivo techniques of investigation are preferred. Opportunities to collaborate with other faculty in complementation and immune response studies exist. This position is at a junior faculty level, but associate professor appointments are possible if commensurate with research accomplishments and background. The primary appointment will be in the Department of Surgery with collaborative interactions and secondary appointments as appropriate. Closing date: 31 March 1990. Salary is commensurate with public scale. Send letter of inquiry and curriculum vitae to: Dr. Arnold R. Fish, Department of Medicine, University of California, San Diego, 92030. The University of California is an Equal Opportunity/Affirmative Action Employer.

OREGON Tenure-track position in Department of General and Oral Pathology. Applicants should have demonstrated expertise in histology, genet- ics laboratory, and oral histology. Minimum requirements include M.D. degree, postgraduate training in clinical medicine, certification by the Amer- ican Board of Internal Medicine in the subspecialty of oral and maxillofacial pathology, and experience in oral and maxillofacial surgery. Salary is a competitive annual salary scale. The University of Oregon encourages women and minorities to apply. Send letter of intent and curriculum vitae to: Dr. J. F. Aldridge, Department of Oral and Maxillofacial Surgery, University of Oregon Health Science University, 611 W. Campus Drive, Portland, OR 97201. The University of Oregon is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR. Gastroenterology faculty position. The University of Iowa, Department of Internal Medicine, invites applicants for a faculty posi- tion in the Division of Gastroenterology-Hepatology. Minimum requirements include M.D. degree, postgraduate training in clinical medicine, certification by the Amer- ican Board of Internal Medicine in the subspecialty of gastroenterology, and experience in endoscopic proce- dures, including ERCP. Established research experience in B-cell immunology and helper T cell/B cell interac- tions required. Research activities will be commensurate with the interest and the demonstrated ability of the applicant. The applicant will be expected to participate in teaching and clinical activities at the Department of Medicine. Salary is based on the academic level of entry and on the applicant's qualifications and responsibilities. Women, minorities, and those with research experience are especially encouraged to apply. Send curriculum vitae with bibliography to: Randall W. Jordison, Assistant to the Chairman, Department of Internal Medicine, University of Iowa College of Medicine, Room SE309 GH, Iowa City, IA 52242. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

ANALYTICAL CHEMIST needed to develop func- tional laboratory, providing support for biochemistry and microbiology research to biotechnology based prod- ucts. Require Ph.D. Degree in Analytical Chemistry, ability to perform research utilizing plant materials and metal spectrophotometry, with knowledge of modern instrumentation (HPLC, TLC, NMR, and mass spectrometry). Salary $40,000 per year. Job Order No. 3948932. Contact Utah Job Service, 1234 South Main Street, P.O. Box 11000, Salt Lake City, UT 84115. The University of Utah is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMICAL PHARMACOLOGIST. ASSISTANT PROFESSOR level position. Ph.D. in pharmacology, biochemistry, microbiology, or relat- ed area. Research involves the design and evaluation of new drugs, and a commitment to pursue fundamental pharmacologic questions. Send cur-riculum vitae, brief description of research interests, and names and addresses of three references to: Dr. J. M. Rein, Department of Pharmacology, University of Wisconsin, Madison, WI 53792. Position open.

ASSOCIATE PROFESSOR/PROFESSOR DEPARTMENTS OF OPHTHALMOLOGY AND OPHTHALMIC SURGERY UNIVERSITY OF WISCONSIN, MADISON

Senior level position available for individual with 10 to 20 years of experience and competence in clinical radiobiology and medical physics and broad background in radiology research. Design and analysis of animal experiments involving the interaction of cytostatic drugs, oxidizing and anti-oxidizing agents, and cytostatic radiation treatment; establishing and testing mathematical models to relate in vitro human and in vivo animal experimentation data to results of human radiotherapy clinical trials; developing imaging techniques; and teaching residents and graduate medical students. Send reference and statement of research interest, and names of three references to:

Timothy J. Kinsella, M.D.
Professor and Chairman
Department of Human Oncology
K4312 CSC, 600 Highland Avenue
Madison, WI 53792


CELL AND MOLECULAR BIOLOGY

The Department of Biological Sciences and the Center for Gene Structure and Function is recruiting for two positions for cell or molecular biologists as tenure-track faculty members. Appointment at any professional rank is possible, dependent upon the qualifications of the successful candidate. The successful candidate will be expected to establish an independent research program. Candidates should submit curriculum vitae, a statement of research interests, and names of three references to: Dr. Joseph S. Krakow, Chairman, Search Committee, Department of Biological Sci- ences, Bluffton College, Bluffton, OH 45817.

ECOLOGY AND FISHERIES

POSTDOCTORAL RESEARCH ASSOCIATE

Incumbent will manage research program on the population dynamics of the blue crab in Chesapeake Bay. Responsibilities include direction of field personnel and logistics, field and laboratory data management and analysis, report preparation and publication, and statisti- cal analysis of existing long-term data on blue crab abundance. Ph.D. required. UCSD program designed for more than 1 year with potential for ad- ditional grant funding. Experience desired in statistical analysis and modeling, particularly with complex, long- term fisheries or ecological data sets. This 12-month position as assistant research scientist has an annual salary of $26,000 and full benefits. Send letter of interest, curriculum vitae, and names and addresses of three references to: Dr. Ronald N. Lipcius, Chair, Postdoctoral Research Associate Search Committee, The College of William and Mary, Box 1414, 207 Science, Gloucester Point, VA 23062. Position is available immediately and will be filled no later than 1 February 1990. The College of William and Mary is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

SCIENCE, VOL. 246

1310
**Director General**

The position of Director General of the International Center for Living Aquatic Resources Management (ICLARM) has become immediately available as a result of the continuing illness of the previous incumbent.

ICLARM is a nonprofit, autonomous, nongovernmental, international center with headquarters in the Philippines. The goal of ICLARM is to assist tropical developing nations in wise management of aquatic and coastal resources and in aquaculture development for the benefit of small-scale producers and rural poor. The Center’s Program areas include aquaculture (principally low cost inland and coastal farming systems and genetics), capture fisheries management (stock assessment and modeling), coastal area management (planning, geographical information systems, socioeconomics) and information (global services and research) which interact in a multidisciplinary approach.

Qualifications: The major qualifications required are: 1) Ph.D. and background in one or more of ICLARM’s Program areas; 2) Ability to work with scientists, research institutions, fisheries agencies and other governmental and nongovernmental entities, national, regional and international; 3) Proven competence in managerial matters to ensure efficient operation of an international, multidisciplinary center; 4) Proven competence to deal effectively with fund-raising activities and donor organizations.

Duties and Responsibilities: The Director General will have full responsibility for the supervision and direction of the International Center for Living Aquatic Resources Management. Under the general supervision of the ICLARM Board of Trustees he or she will direct the planning and implementation of the research programs of the Center. Based at headquarters in Manila he or she will supervise directly the four Program Directors in the execution of ICLARM programs.

The Director General will assume responsibility for fund-raising on behalf of ICLARM and will maintain an effective relationship with donors and potential donors; take responsibility for public relations and maintenance of close communications with fisheries research and development organizations worldwide to ensure close cooperation between these groups and play a pivotal role in coordination of ICLARM research programs with those of other institutions. These functions require frequent travel.

Benefits and Allowances: Generous, equivalent to those provided by the International Agricultural Research Centers.

Applications: Applications should be addressed to Dr. James A. Storer, Chairman, ICLARM Search Committee, 15 Cleveland St., Brunswick, Maine 04011, U.S.A. to be received no later than 15 February 1990. Applications should include complete personal qualifications and experience, previous and present positions and salaries, and names, addresses and phone numbers of three personal references.

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**The University of Melbourne**

**Chair of Zoology**

The University of Melbourne invites applications for a new Chair of Zoology. The existing Chair in the Department is filled by Professor G.D. Campbell.

The appointee will be a distinguished Zoologist and be prepared to give academic leadership in the Department and biological sciences within the University. The Department of Zoology has well funded research groups in comparative, cardiovascular, respiratory and autonomic physiology, evolutionary biology, neuroethology and behaviour, and marine ecology.

It is anticipated that the appointee will serve as Head of the Department for a period of up to five years.

Salary: $A63,919 per annum. The University is currently examining the question of salary loadings and responsibility allowances.

Further information about the position, application procedure, superannuation, travel and removal expenses, housing assistance and conditions of appointment is available from the Registrar. All correspondence (marked “Confidential”) should be addressed to The Registrar, The University of Melbourne, Parkville, Victoria, 3052, Australia.

Telephone: (+613) 344 7528 Facsimile: (+613) 344 6897

Applications close on Friday 23 February, 1990.

The Council reserves to itself the right to make no appointment or to fill the Chair by invitation at any stage.

An equal opportunity employer.

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**NEUROSCIENCE DEPARTMENT**

**Roche Institute of Molecular Biology**

**Cellular/Molecular Neuroscientist, Assistant Professor Level**

The department currently has well developed interests in inter- and intracellular signalling mechanisms and gene expression/regulation in adult and developing nervous systems. Individual will be expected to establish an independent basic research program in one of these general areas of neuroscience. The Institute provides investigator salary and generous support for supplies, equipment and personnel. Applicants should submit resume and an outline of research by February 1st, 1990, to: Dr. John A. Connor, Head, Department of Neuroscience, Roche Institute of Molecular Biology, 340 Kingsland Street, Nutley, New Jersey 07110. We are an equal opportunity employer.

Roche Institute of Molecular Biology

Hoffmann-La Roche Inc
VITAE, CIATE, specialty committee, nominations, recommendation level, dentists, Ph.D., expertise plankton, Division I512 productive itncreasing it to: DANA-FARBER and Harvard Medical School, and have...ofundergraduate data, and molecular pharmacology with a primary research interest in the molecular biology of gene regulation as it relates to the differentiation of mammalian somatic cells. He should be a distinguished investigator, and will become a member of the new Division of Cell and Molecular Biology at the DFCI. The successful candidate will be expected to carry out a strong basic science research program, and participate in the teaching of medical and graduate students in the fields of cell and molecular biology. Harvard University is committed to increasing the number of minority members among its faculty and particularly encourages applications from such candidates. Candidates should send curriculum vitae, statement of research interests, and names of three references to: David M. Livingston, M.D., Professor of Medicine, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. Harvard Medical School and Dana-Farber Cancer Institute are Affirmative Action/Equal Opportunity Employers.

POSITIONS OPEN

SCRIPPS INSTITUTION FOR BIOTECHNOLOGY AND MEDICINE

BIOLOGICAL OCEANOGRAPHY

Applications are invited for an ASSISTANT, ASSOCIATE, OR FULL PROFESSOR/CURATOR (tenure-track or tenured) position in marine planktonology; level and duties of California position will vary commensurate with qualifications and experience. At the time of appointment successful candidates must hold a Ph.D. in oceanography, and must have demonstrated excellence in independent research.

Qualifications include research and teaching interests in the ecology and evolution of planktonic organisms involving field and laboratory work, the utilization of plankton collections, and, preferably but not necessarily, expertise in the systematics and/o... wishes to be considered for the position must include a curriculum vitae, statement of research interests, and three letters of recommendation. Applicants must have a Ph.D. in a biological field. Send resume, salary requirements, and three letters of reference to: Dr. John Ahearn, Executive Director.

PROGRAM ADMINISTRATOR - PROGRAMS

Develop and maintain links between headquarters and the society's 520 local groups, primarily in North America. Essential qualifications include broad scientific education, a talent for helping the society's chapters and clubs exist, and the capacity to represent the society and to explain the society's mission and activities to both scientists and nonscientists. Applicants should have a Ph.D. in a technical field. Involves frequent travel. Send resume and salary requirements to: Dr. Evan Ferguson, Director of Programs.

PROGRAM ADMINISTRATOR - CHAPTE...letter to: Dr. Evan Ferguson, Director of Programs.

CLINICAL CHEMIST

Clinical Laboratory Sciences CANDIDATE AFFILIATE HEALTH PROFESSIONS UNIVERSITY OF WISCONSIN-MILWAUKEE

The Department of Health Sciences invites applications and nominations for a faculty position in the clinical laboratories program. Primary responsibilities include teaching clinical chemistry at the graduate and undergraduate levels of the program and establishing a productive research program. Previous teaching and research experience in clinical chemistry is highly desirable and applicants in clinical chemistry related specialties are preferred. Rank, tenure, and salary commensurate with experience and qualifications. Send curriculum vitae, statement of research interests, and names of three letters of recommendation to: Dr. John A. Ndon, Ph.D., MC (ASCP), Search and Screen Committee, University of Wisconsin-Milwaukee, Department of Health Sciences, P.O. Box 413, Milwaukee, WI 53201. Affirmative Action/Equal Opportunity Employer.

DANA-FARBER CANCER INSTITUTE

HARVARD MEDICAL SCHOOL

PROFESSOR OF BIOLOGICAL CHEMISTRY AND MOLECULAR PHARMACOLOGY

Dana-Farber Cancer Institute (DFCI) and Harvard Medical School are seeking a professor of biological chemistry and molecular pharmacology with a primary research interest in the molecular biology of gene regulation as it relates to the differentiation of mammalian somatic cells. He should be a distinguished investigator, and will become a member of the new Division of Cell and Molecular Biology at the DFCI. The successful candidate will be expected to carry out a strong basic science research program, and participate in the teaching of medical and graduate students in the fields of cell and molecular biology. Harvard University is committed to increasing the number of minority members among its faculty and particularly encourages applications from such candidates. Candidates should send curriculum vitae, statement of research interests, and names of three references to: David M. Livingston, M.D., Professor of Medicine, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. Harvard Medical School and Dana-Farber Cancer Institute are Affirmative Action/Equal Opportunity Employers.

SIGMA XI OPENINGS

DIRECTOR OF MEMBERSHIP

Sigma Xi seeks a scientist looking for a career shift. A new position has been created as director of membership, who will manage one of the four divisions at the society's headquarters. This position will be responsible for working with the membership committee to develop and implement strategies to attract and retain the society's 110,000 members, including analyzing trends and identifying problems and solutions. Applicants should have a Ph.D. in a technical field. Send resume and salary requirements to the attention of: Dr. John Ahearn, Executive Director.

PROGRAM ADMINISTRATOR - PROGRAMS

Develop and maintain links between headquarters and the society's 520 local groups, primarily in North America. Essential qualifications include broad scientific education, a talent for writing, and experience in writing and managing grant proposals. An advanced research degree is required. Some travel is involved. Send resume and salary requirements to: Dr. Evan Ferguson, Director of Programs.

PROGRAM ADMINISTRATOR - CHAPTE...letter to: Dr. Evan Ferguson, Director of Programs.

MARKEY DEVELOPMENT BIOLOGY PROGRAM

Applications are solicited for the DIRECTOR of the newly established Markey Developmental Biology Program at Northwestern University Medical School. The successful candidate should be an internationally recognized developmental biologist who can provide scientific leadership for the program. Candidates must qualify for a senior faculty appointment with tenure in the university. Core laboratories for the Markey Developmental Biology Program will be housed in the newly constructed Tarry Research and Education Center at Evanston, Illinois. Generous funds and additional junior faculty positions are available. Review of applications will begin after February 1990 and continue until June 1990. Send letter of qualifications and three letters of recommendation to: Dr. Geri Albrecht-Buehler, Ph.D., Chairman of Search Committee, Morton 4-656, 303 East Chicago Avenue, Chicago, IL 60611-3008. Northwestern University is an Equal Opportunity/Affirmative Action Educator and Employer. Employment verification required upon hire.

FACULTY POSITIONS

IN THE COMPLEX CARBOHYDRATE RESEARCH CENTER

The University of Georgia Complex Carbohydrate Research Center, consisting of seven research groups comprising 90 members (faculty, staff, and students), will add three tenure-track faculty. The CCRC, organized for collaborative and interdisciplinary research in carbohydrate science, has recently occupied a new 40,000-square-foot building. Appointments will normally be at ASSISTANT PROFESSOR level, but one senior professorship may be filled. The CCRC particularly seeks cell and molecular biologists, biochemists, and chemists with demonstrated research ability or an interest in this area. Persons will be expected to carry out research in collaboration with the directors of new or existing laboratories, including the study of carbohydrates of plants, animals, or microbes. Applications are being considered as received with the next major review on 15 January 1990. Send letter of application, proposed research, and three letters of reference to: Dr. Herbert Albersheim or Alan Darvill, Directors, Complex Carbohydrate Research Center, The University of Georgia, Athens, GA 30602. An Affirmative Action/Equal Opportunity Institution.

NATURAL PRODUCTS DIVISION

OF ORGANIC CHEMISTRY RESEARCH

NPI, an emerging specialty chemical company involved in the discovery and development of proprietary naturally derived compounds, is seeking an outstanding individual to serve as research director.

Requirements: Ph.D. chemist with at least 5 years of experience beyond the postdoctoral level to direct a team in the discovery of biologically active compounds as well as oversee the development of a product line based on known active molecules. In separated identification, modification, and characterization of compounds from natural sources. Desirable experience would include some knowledge of formulation and manufacturing as well as utilization of natural molecules in one or more segments of industry, such as agricultural chemicals, pharmaceutical products, or specialty chemicals.

Substantial opportunities for promotion exist as you become a senior member of a growing organization. Work will be performed in the corporate research laboratories in Salt Lake City, Utah. Please send résumé to: Director of Personnel

NPI 417 Dakota Way Salt Lake City, UT 84108

LOUISIANA STATE UNIVERSITY (LSU)

MEDICAL CENTER VICE CHANCELLOR AND FACULTY DEAN OF MEDICINE AND DEAN OF THE GRADUATE SCHOOL

As a member of the senior executive staff of LSU Medical Center, this full-time senior official reports directly to the chancellor. As vice chancellor and/or dean of the Graduate School, this position is responsible, in a broad sense, for providing professiona...lance and the academic affairs of all of the professional schools in the medical center.

As dean of the graduate school, this individual is responsible for the development and enhancement of policies and programs and the coordination and direction of all academic matters, including the curriculum, under the purview of the chairperson within the Gradu...e for the position must possess at least a doctoral degree in one of the basic health sciences; have a minimum of 5 years of academic administrative experience in a university health science center; demonstrate a strong commitment to academic excellence through their background and experience in original writing, research, and education of graduate students in the basic health sciences; and possess effective oral and written communication skills. Academic rank and salary commensurate with qualifications.

Nominations and applications, including curriculum vitae and the names of three references, should be forwarded not later than 1 February 1990 to: Dr. Jack H. Rawson, Search Committee Chairman 1100 Florida Avenue New Orleans, LA 70119

LSU Medical Center is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN BIOCHEMISTRY

Drew University. Tenure-track position at the ASSISTANT PROFESSOR level beginning fall 1990. Ph.D. required and some teaching experience preferred. Teaching responsibilities will include biochemistry, some organic and general chemistry courses, and supervision of undergraduate research. The successful candidate will value excellence in teaching and have a commitment to undergraduate research. Drew University is a highly selective, private university in the northern New Jersey with a well-equipped, ACS-accredited chemistry department. Send résumé, undergraduate and graduate transcripts, a short research proposal, and three letters of reference to: Dr. Peter Albersheim or Alan Darvill, Directors, Complex Carbohydrate Research Center, The University of Georgia, Athens, GA 30602. An Affirmative Action/Equal Opportunity Institution.

1512

SCIENCE, VOL. 246
Help Us Extend Childhood.

St. Jude's position as a world leader in the research and treatment of catastrophic diseases in children, results from the commitment of our staff and the courage of our young patients. You can make a difference in our continuing progress to better understand and treat these diseases as a Senior Research Technologist.

SENIOR RESEARCH TECHNOLOGIST

The qualified individual will maintain cultured human and animal cell lines and prepare membrane fractions from these cells for studies of membrane transport proteins. This individual will also use rapid sampling techniques and animal tissues to establish new insights into the physiological processes involved in these research areas.

Requirements include experience in cell culture, preparation of membrane fractions from cultured cells and animal tissues, and use of rapid sampling techniques for measurement of the membrane transport of small molecules. Requires a BS with experience or a Master's degree in Pharmacology, Biochemistry or Biology.

Our salaries are very competitive and our benefits program includes 3 weeks vacation, comprehensive health insurance, tuition assistance, life insurance, accidental death and dismemberment coverage, long-term disability insurance and a flexible spending account program.

To apply, please send your resume to: Jack Hilzheim, Tennessee Job Service, 1295 Poplar, Memphis, TN 38104. St. Jude is an affirmative action equal opportunity employer.

ST. JUDE CHILDREN'S RESEARCH HOSPITAL
DANNY THOMAS, Founder

DIRECTOR, CIVITAN INTERNATIONAL RESEARCH CENTER
A Mental Retardation/Developmental Disabilities Research Center at the University of Alabama at Birmingham

The University of Alabama at Birmingham (UAB), is seeking a dynamic leader to serve as the first Director of the Civitan International Research Center (CIRC). The CIRC will be dedicated to research related to mental retardation and developmental disabilities (MR/DD) and is being developed by UAB in partnership with Civitan International. Using a long-term, multimillion dollar commitment from Civitan International, UAB is constructing a 60,000 sqf research facility that will house relevant research programs and activities. The Director will have primary responsibility for this facility and will be provided with substantial operating funds for the augmentation of MR/DD research programs. The Center Director will report directly to the Vice President for Health Affairs and will also hold a faculty appointment in an appropriate academic and/or clinical department.

UAB is a research-oriented, urban university composed of a nationally recognized medical center with six health professions schools and hospital complex, eight comprehensive undergraduate and graduate programs in six additional schools covering the arts, sciences, and professions of business, education and engineering, and strong continuing education and community service activities. UAB faculty and staff exceed 12,500 and more than 14,000 students are enrolled in degree programs. Extramural grant and contract support of over $100 million is one component of an annual budget which exceeds $550 million.

UAB provides a world-class research environment characterized by interdisciplinary/interdepartmental interactions that have led to the formation of a number of very strong research centers. It is anticipated that the CIRC will foster such interactions, building upon existing strengths of departments throughout the University, including the patient care and health professionals training programs of the Sparks Center for Developmental and Learning Disorders, while, at the same time, expanding our expertise in MR/DD research through new faculty appointments. Since we are seeking an individual to be the first Director of the Civitan International Research Center, the successful candidate will be uniquely positioned to build a new Center and to influence the long-term direction and growth of basic and clinical MR/DD research in the University. The candidate should possess a terminal degree, preferably a M.D. and/or Ph.D., and relevant administrative experience.

Screening of candidates will begin immediately and the search will continue until a suitable candidate is selected. Those interested are encouraged to submit their materials at the earliest possible date. We anticipate filling this position by June 1, 1990.

Applications should include a complete resume and the names and addresses of at least five references. Nominations are encouraged. Applications and nominations should be sent to:

Terry L. Hickey, Ph.D.
Assistant Vice President for Health Affairs
Dean and Co-Director of the Graduate School
102 Mortimer Jordan Hall
University of Alabama at Birmingham
University Station
Birmingham, AL 35294

Affirmative Action, Equal Opportunity Employer

13 DECEMBER 1989
THE JOHNS HOPKINS UNIVERSITY

The Thomas C. Jenkins Department of Biophysics seeks candidates for a FACULTY POSITION in the area of structural and functional development of macromolecules. The candidate should have a strong biophysical perspective in the solution of structure-function relationships of fundamental biological problems. The rank for this tenure-track position is open. Please send by 1 February 1990, a letter of application, statement of research interests, and names of references to: Professor Warner E. Love, Search Committee Chair, 101 East Thirty-Third Street, New York, NY 10021.

The Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21218. The Johns Hopkins University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS IN BIOLOGY

The Biology Department invites applications from qualified candidates for two tenure-track positions at the ASSISTANT PROFESSOR level. A Ph.D. and a commitment to teaching undergraduate students are required for both positions. Candidates will be expected to develop an active research program involving students. Oceanographic research is being conducted at a masters-level graduate program in marine biology.

DEVELOPMENTAL BIOLOGIST. Research interests should be in modern developmental biology. Some preference may be shown for candidates who use marine organisms as models in their research. Candidates should be able to teach undergraduate courses in comparative embryology, general biology, and developmental biology.

COMPARATIVE ANATOMIST. Research interests should be in an area of evolutionary biology or comparative anatomy of some group of marine vertebrates. Candidate must be able to teach undergraduate courses in comparative vertebrate anatomy, general biology, and human anatomy.

Send curriculum vitae, statement of teaching and research interests, and the names of three persons we might contact as references to:

Dr. James W. Smiley, Chair
Department of Biology
College of Charleston
Charleston, SC 29424

Applications will be accepted until 1 January 1990.
The College of Charleston is an Equal Opportunity Employer.

FACULTY POSITION IN NEUROBIOLOGY NEUROBIOLOGY RESEARCH CENTER (NRC)
UNIVERSITY OF ALABAMA AT BIRMINGHAM (UAB)

Due to continued expansion of the NRC in the UAB School of Medicine, a new tenure-track position in molecular neurobiology is available. The appointment will be at the ASSISTANT OR ASSOCIATE PROFESSOR level, commensurate with experience. The successful candidate will be expected to conduct an active, externally funded research program related to aspects of synaptic function including normal transmission, plasticity, or development. Particular consideration will be given to individuals using contemporary tools that afford comprehensive gene expression and genetic analysis. The appointment is on a 12-month basis and includes nationally competitive salary, recently renovated space, and start-up funds. The NRC is currently composed of 16 faculty members with actively funded research programs in synaptic transmission, neuroendocrinology, peptide modulation of neural plasticity, neurobiotransmission, and neuron/glia interaction in development and regeneration. Access to shared facilities, including a premier neuroreconstruction facility and the ultrastructural analysis and microdissection facilities, is available. Approximately 75 graduate and undergraduate students are currently being trained in the NRC. The laboratory is located in an economically favorable and culturally vibrant community.

Candidates should send curriculum vitae and statement of research interest and have three letters of reference sent by 20 January 1990 to: Michael J. Friedlander, Director, Neurobiology Research Center, University of Alabama at Birmingham, Birmingham, AL 35294. UAB is an Affirmative Action/Equal Opportunity Employer.

NEUROBIOLOGY FACULTY POSITION

The Sanders-Brown Center on Aging at the University of Kentucky invites applications for two tenure-track faculty appointments. The Center is an interdisciplinary neurobiology department, focusing on fundamental biological research related to human aging. Successful candidates will have a faculty appointment in the Department of Anatomy of the University. Appointees will be expected to develop their own research programs and be willing to participate in the training of graduate students. The Sanders-Brown Center is one of the NIA-funded Alzheimer's disease research centers. A letter of interest, recent curriculum vitae, and names of three references should be submitted to: Dr. Donald A. Burleson, Director, Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY 40536. The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.

TWO FACULTY POSITIONS IN OCEANOGRAPHY

The University of Maine has just established a graduate Department of Oceanography, and seeks:

(i) A CHAIRPERSON to guide its development. The Department will be established in three years. Applicants, though preference may be given to persons in physical, chemical, or fisheries oceanography.

(ii) AN ASSISTANT OR ASSOCIATE PROFESSOR in these same fields. Areas of focus for the department will include estuarine-shelf processes, paleoceanography, fisheries oceanography, and benthic processes. Applicants will be expected to develop an active research program, which will be supported by outside funding. Review of applications will begin 7 January 1990, and continue until positions are filled. Send letters of application, curriculum vitae, and names of three references to: Dr. L. Mayer, Department of Oceanography, University of Maine, Orono, ME 04469. Telephone inquiries can be directed to: 207-581-1437 or 207-563-3146.

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

FACULTY POSITIONS, PHARMACOLOGY

Full-time, tenure-track appointments at the rank of ASSISTANT PROFESSOR are available at the newly reorganized Department of Pharmacology at the Louisiana State University Medical Center (LSUMC), New Orleans. Applicants should have a Ph.D. with a minimum of 2 years of postdoctoral experience. Under special circumstances appointments at the level of associate professor will be considered. Establishment of an independent research program funded by extramural support is expected, as is participation in the educational program of the department. Candidates with research interests in respiratory, cardiovascular, or CNS control over cardiovascular, respiratory, renal, or GI function are especially encouraged. Applicants should send curriculum vitae, a statement of future research directions, and the names, addresses, and telephone numbers of three references to: Dr. J. M. Moerschlechner, Chair, Pharmacology, LSUMC Medical Center, 1901 Perdido Street, New Orleans, LA 70112-1393. LSUMC is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF PITTSBURGH DEPARTMENT OF BIOLOGICAL SCIENCES FACULTY POSITION

The Department of Biological Sciences of the University of Pittsburgh is seeking a tenure-track ASSISTANT PROFESSOR with research expertise in temperature, development, or cellular biology. The person hired will be expected to obtain extramural research support. The faculty member would direct graduate research and teach in the undergraduate and graduate programs of the department, which will be offering a major in ecology and evolution. The successful candidate will be expected to participate in the summer teaching/research program offered to the University of Pittsburgh. Deadline for submission is 15 February 1990, for a starting date of 1 September 1990. Applicants should submit curriculum vitae, names, addresses, and phone numbers of three persons who can supply letters of recommendation to: Dr. Kenneth W. Caughey, Chair of the Search Committee, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA 15260. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer. Applications from minority and women candidates are especially encouraged.

POSITIONS OPEN

The University of Iowa's College of Dentistry is presently conducting a search to fill a full-time FACULTY POSITION in the Division of Oral Biology and Cell and Developmental Biology. Applicants must have a Ph.D. and research accomplishments that can augment the activities of the Division. This is a full-time, tenure-track position involving the study of normal and abnormal tissue differentiation, growth, and development. The primary laboratory-based research is conducted at the molecular and cellular levels. The successful candidate will have a research program involving molecular approaches to the biosynthesis of extracellular matrices and the roles of matrix metalloproteinases. Successful candidates will be expected to develop research programs of high quality and to teach undergraduate and graduate students. Faculty appointments will be made at the rank of ASSISTANT PROFESSOR or higher, depending on qualifications. Interested applicants should submit a letter of application, a curriculum vitae, and the names of three references to: Dr. Richard Z. Dowski, Director, Oral Biology and Cell and Developmental Biology, Department of Dental Biology, College of Dentistry, University of Iowa, Iowa City, IA 52242. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) DEPARTMENT OF BIOLOGY FACULTY POSITIONS IN GENETICS AND DEVELOPMENT

Candidates are sought for two tenure-track positions at the level of ASSISTANT PROFESSOR. Candidates should have a Ph.D. in molecular biology or genetics and 3 years of postdoctoral experience. Of this position include an active research program and participation in the teaching program of the department. Applicants should send curriculum vitae and a summary of research accomplishments. Applications and letters should be sent to:

Chairman
Genetics and Developmental Science Search Committee
MIT's Department of Biology
77 Massachusetts Avenue
Cambridge, MA 02139

MIT is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION AT RESEARCH INSTRUCTOR LEVEL

The Division of Nephrology of the University of Alabama at Birmingham (UAB) is seeking applications for a full-time, tenure-track position at the research instructor level. Successful candidates will have a Ph.D. in molecular biology and at least 3 years of postdoctoral experience. A strong commitment to the development of gene therapy using retroviral vectors and other gene transfer methods and the development of an individual research program is expected. The successful candidate will be expected to develop additional research programs. The successful candidate will have a research program involving molecular biotechnology, and transplantation biology. The Department of Surgery has a long-term commitment to the development of basic research necessary to support large clinical multiorgan transplantation program and substantial research support, laboratory space, and salary available to the appropriate qualified candidate.

Applications will be accepted until the position is filled. Candidates should submit curriculum vitae, research plans, and the names of three references to:

Dr. Donald A. Burleson
Director, Transplantation Biology
Department of Surgery
Cedars-Sinai Medical Center
7700 Beverly Boulevard
Los Angeles, CA 90048

UNIVERSITY OF ALABAMA AT BIRMINGHAM (UAB)

The Transplantation Biology Research Laboratory in the Department of Surgery, Cedars-Sinai Medical Center, is seeking applicants for a full-time position at the RESEARCH ASSISTANT level. The applicants should have a Ph.D., M.D., D.V.M., or equivalent degree with postdoctoral experience in molecular biology and/or immunology. This is a full-time research position that will consist of significant collaborative interaction with other faculty members in the development of an individual research program. The successful candidate will be expected to participate in the summer teaching/research program offered to the University of Alabama. Deadline for submission is 15 February 1990, for a starting date of 1 September 1990. Applications should be submitted to: Dr. Kenneth W. Caughey, Chair of the Search Committee, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA 15260. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer. Applications from minority and women candidates are especially encouraged.

JUNIOR FACULTY POSITION MOLECULAR BIOLOGY TRANSPLANTATION

The Transplantation Biology Research Laboratory in the Department of Surgery, Cedars-Sinai Medical Center, is seeking applicants for a full-time position at the RESEARCH ASSISTANT level. The applicants should have a Ph.D., M.D., D.V.M., or equivalent degree with postdoctoral experience in molecular biology and/or immunology. This is a full-time research position that will consist of significant collaborative interaction with other faculty members in the development of an individual research program. The successful candidate will be expected to participate in the summer teaching/research program offered to the University of Alabama. Deadline for submission is 15 February 1990, for a starting date of 1 September 1990. Applications should be submitted to: Dr. Kenneth W. Caughey, Chair of the Search Committee, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA 15260. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer. Applications from minority and women candidates are especially encouraged.
HEART RESEARCH
The University of Tromsø has an immediate opening for a Professor of Physiology until January 1, 1993, with possibility of extension. The position is attached to the Department of Medical Physiology which concentrates its activity on experimental heart research. This includes studies of cardiac electrophysiology and pharmacology, heart failure, arrhythmias, and antiarrhythmic drugs, hemodynamics, ischemia and reperfusion, and hypothermia. The Department is equipped for in vitro studies of isolated heart cells and heart tissues, as well as in vivo studies of anesthetized dogs and other animals. Applicants are expected to strengthen this research, and must therefore possess research experience and supervising ability in experimental heart research. Lectures may be held in English, but as the position also entails administrative work, the successful applicant is expected to learn Norwegian.

The Department of Medical Physiology has 2 professors, 2 assistant professors plus research fellows (approx. 10) and technical support staff (approx. 6).

The gross salary is at present NOK 276,792 per year. Applications including a complete c.v. and list of publications should be sent in 5 copies together with the relevant certificates to: The University of Tromsø, The University Director, Breivika, N-9000 TROMSØ, NORWAY.


Full directives for application and further information about the professorship can be obtained at the University at the aforementioned address, or from Professor Helge Refsum. Institute of Medical Biology, University of Tromsø, Teonbygget, N-9000 Tromsø, NORWAY. Tel. 47 83-44693.

POSITION AVAILABLE IN CYTOGENETICS
Department of Laboratory Medicine and Pathology
University of Minnesota

Applications are being accepted for a continuing position in the field of cyto genetics in the Department of Laboratory Medicine and Pathology (with a joint appointment in the Institute of Human Genetics) at the University of Minnesota.

Candidates being considered at the Assistant Professor (tenure track) level will have an M.D. or Ph.D. in genetics or a closely-related discipline and will be board certified or board eligible in Clinical Cytogenetics. Candidates must have a minimum of two years experience in a clinical cytogenetics laboratory. Demonstration of research productivity is necessary with evidence of publications in peer-reviewed journals.

Candidates being considered at the Associate Professor (tenured) or Professor (tenured) level will have an M.D. or Ph.D. in genetics or a closely-related discipline and will be board certified or board eligible in Clinical Cytogenetics. Associate Professor candidates must also have a minimum of five years of professional experience beyond the degree, professional distinction in research and writing, and demonstrated effectiveness in teaching and advising. The Professor candidates must also have a minimum of eight years of professional experience beyond the degree, a national reputation in research and writing, and demonstrated effectiveness in teaching and advising.

Responsibilities will include teaching cyto genetics to residents, postdoctoral fellows, graduate students, medical students, and technologists. The incumbent in this position will be expected to develop an independent research program in cytogenetics and/or related discipline. This position assumes partial responsibility for daily operation of the laboratory with emphasis on prenatal diagnosis and related studies (including chorionic villus amniotic fluid, skin fibroblast and peripheral blood specimens as indicated); supervise tissue culture, slide making, choromosomal banding and analysis; interpret and report results of cytogenetic analyses; coordinate send-out of specimens for other biochemical and molecular biologic assays.

Applicants should send a current curriculum vitae and three letters of recommendation to:
Cytogenetics Search Committee
University of Minnesota
Department of Laboratory Medicine and Pathology
Box 198 UMHU, 420 Delaware Street SE
Minneapolis, MN 55455

Deadline for receipt of applications is January 15, 1990. The University of Minnesota is an equal opportunity educator and employer and invites and encourages applications from women and minorities.

IMMUNEX RESEARCH AND DEVELOPMENT CORPORATION, a Seattle-based biopharmaceutical company committed to research and development for treating diseases related to malfunction in the immune system, is currently recruiting for:

Staff Scientists and Postdoctoral Fellows
With experience in the following areas:

Process Development/Biochemical Engineering

Successful candidates will work on purification, scale-up, and refolding of recombinant proteins expressed in microbial and mammalian cell hosts. Additional positions are available for work on protein characterization and formulation. A background in biochemical engineering, biochemistry or protein chemistry is preferred.

Experimental Hematology
Staff Scientist needed to contribute to experimental hematology program. Researcher needed for development of in vitro and in vivo models of hematopoiesis. Particular emphasis will be placed on the establishment of assays having the capacity to detect novel hematopoietic growth factors.

Immunology

Scientific researcher needed with expertise in culturing of monocytes/macrophages and assessment of their activation. Expertise in dealing with human cells a plus; experience with cytokines desired.

Immunex Research and Development Corporation offers excellent opportunities for career development as well as competitive salaries and an excellent benefits package. For consideration, please submit C.V., names of three references, and list of publications to: Immunex Research and Development Corporation, Human Resources Director, 51 University Street, Seattle, WA 98101. EOE.
Faculty Positions

The Department of Biological Sciences, St. John's University, New York, seeks energetic candidates for two tenure-track positions with expertise in molecular, cell, developmental biology or developmental neurobiology. Rank and salary are open and depend on qualifications. Postdoctoral experience and evidence of good research productivity are required. Successful applicants will be expected to conduct an externally funded research program and to teach a course in their specialties in the doctoral program. Candidates should submit curriculum vitae with a list of publications, a brief statement of research interests, and names of at least three references by 1 January 1990, to: Dr. Richard Lockshin, Chair, Department of Biological Sciences, St. John's University, Jamaica, NY 11439. An Equal Opportunity Employer — M/F.

Our client, an exciting, stable medical device manufacturer located in the Sunbelt, is recruiting for the following positions in medical development:

Senior Scientist—Biochemist

This individual will be responsible for planning, conducting and evaluating research and development of biological materials and materials processes. Other job functions include establishing a scientific understanding of treatment processes for biological materials and developing characterization test methods. The qualified applicant will possess a Ph.D. in Biochemistry with a minimum of two years experience in collagen chemistry and tissue characterization methods. Excellent written communication skills and demonstrated problem solving skills are required.

Our client offers an excellent compensation package, commensurate with experience, and a fringe benefit program. Please submit your resume with salary history to: Confidential Reply Service, Dept. 52, Anderson Fischel Thompson, 2950 North Loop West, Suite 236, Houston, TX 77092. All replies will be forwarded to our client unopen.

No phone calls please. Our client is an equal opportunity employer.

Confidential Reply Service
Anderson Fischel Thompson

Positions Open

Faculty Positions: Summer 1990

The School for Field Studies announces teaching opportunities for one tenure-track, fall 1990. Responsibilities include undergraduate courses in ecology, evolution, and general biology. The candidate will be expected to develop a field research program. Send curriculum vitae, transcripts, and three letters of reference to: D. St. John, School for Field Studies, 470 First Street, NE, Washington, DC 20002. Equal opportunity employer.

Tropical Ecologist: cloud forest ecosystem, Costa Rica

Primate Ecologist: primate behavior, Mexico.

Successful cell biologist, Dr. Fischel, qualified through postdoctoral experience, offers an exciting opportunity to: Our client offers an excellent package, a favorable work environment, and a stimulating research atmosphere. Undergraduate and graduate students will be involved in the Ph.D. program. A.D. is expected to begin Spring 1990. Applicants should send letter of intent, curriculum vitae, and names of three references by 15 January 1990 to: Dr. H. Smith, Department of Biology, Texas A&M University, College Station, TX 77843-2213. A.D. is an equal opportunity employer.

Freshwater Biologist

The Department of Biology at The University of Mississippi invites applications for two tenure-track faculty positions in its expanding Freshwater Biology Program. The incumbents will conduct extramurally funded research using an University of Mississippi Biological Field Station (a 500-acre facility including over 140 artificial ponds, streams, and wetlands), teach in the undergraduate and graduate curricula, and continue their research in freshwater ecosystems. Experience teaching and publications in appropriate field are required.

Benthic Invertebrate Ecologist

Will conduct basic and applied research using benthic invertebrates in artificial and natural ponds, streams, and wetlands. Teaching responsibilities may include invertebrate biology, aquatic biology, ecology, general biology. Experience in ecology, physiology, and/or toxicology is appropriate.

Environmental Aquatic Microbiologist

Will conduct basic and applied microbiological research in freshwater systems. Responsibilities may include applied microbiology, general microbiology, microbial ecology, or general biology. Experience in microbiology of aquatic systems and microbial ecology is appropriate.

It is anticipated that the positions will be filled at the Assistant Professor level beginning in August 1990. Successful candidates will be expected to carry an appropriate load of teaching, research, and service assignments. Application should be submitted in writing before January 7, 1990 to: Dr. J. Schaefer, Department of Biology, University of Mississippi, MS 38677. Deadline for applications is January 7, 1990, or until filled.

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

Mass Spectroscopist

Rice University Department of Biochemistry announces the availability of a Ph.D. level position of a Mass Spectroscopist to operate GC-MS units and to participate in research on steroid biosynthesis, steroid metabolism, and the chemistry of complex lipids. Salary dependent on qualifications and experience. Position available immediately. Interested persons should send resumé and names of three references to: Dr. J. S. Rice University Department of Biochemistry, 6101 Main Street, P.O. Box 1892, Houston, TX 77251. Rice University is an Equal Opportunity/Affirmative Action Employer.

Microbiologist

The Department of Biology at Southwest Missouri State University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level beginning fall 1990. The individual must possess a Ph.D. and will be expected to develop an introductory course in microbiology and courses related to microbial physiology, and develop a strong research program. Send curriculum vitae, statement of research objectives, and names of three references by 2 February 1990 to: Dr. J. S. Rice University Department of Biochemistry, 6101 Main Street, P.O. Box 1892, Houston, TX 77251. Rice University is an Equal Opportunity/Affirmative Action Employer.

Positions Open

Community Ecologist

Assistant Professor, Ph.D. required, full-time, tenure-track, fall 1990. Responsibilities include teaching, advising, and continuing graduate courses in ecology, evolution, and general biology. The candidate will be expected to develop a field research program. Send curriculum vitae, transcripts, and three letters of reference to: Dr. A. Smith, Department of Biology, Gustavus Adolphus College, St. Peter, MN 56082 by 25 January 1990. A.D. is an equal opportunity employer.

Freshwater Biologist

The Department of Biology at The University of Mississippi invites applications for two tenure-track faculty positions in its expanding Freshwater Biology Program. The incumbents will conduct extramurally funded research using an University of Mississippi Biological Field Station (a 500-acre facility including over 140 artificial ponds, streams, and wetlands), teach in the undergraduate and graduate curricula, and continue their research in freshwater ecosystems. Experience teaching and publications in appropriate field are required.

Benthic Invertebrate Ecologist

Will conduct basic and applied research using benthic invertebrates in artificial and natural ponds, streams, and wetlands. Teaching responsibilities may include invertebrate biology, aquatic biology, ecology, general biology. Experience in ecology, physiology, and/or toxicology is appropriate.

Environmental Aquatic Microbiologist

Will conduct basic and applied microbiological research in freshwater systems. Responsibilities may include applied microbiology, general microbiology, microbial ecology, or general biology. Experience in microbiology of aquatic systems and microbial ecology is appropriate.

It is anticipated that the positions will be filled at the Assistant Professor level beginning in August 1990. Successful candidates will be expected to carry an appropriate load of teaching, research, and service assignments. Application should be submitted in writing before January 7, 1990 to: Dr. J. S. Rice University Department of Biochemistry, 6101 Main Street, P.O. Box 1892, Houston, TX 77251. Rice University is an Equal Opportunity/Affirmative Action Employer.

Mass Spectroscopist

Rice University Department of Biochemistry announces the availability of a Ph.D. level position of a Mass Spectroscopist to operate GC-MS units and to participate in research on steroid biosynthesis, steroid metabolism, and the chemistry of complex lipids. Salary dependent on qualifications and experience. Position available immediately. Interested persons should send resumé and names of three references to: Dr. J. S. Rice University Department of Biochemistry, 6101 Main Street, P.O. Box 1892, Houston, TX 77251. Rice University is an Equal Opportunity/Affirmative Action Employer.

Microbiologist

The Department of Biology at Southwest Missouri State University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level beginning fall 1990. The individual must possess a Ph.D. and will be expected to develop an introductory course in microbiology and courses related to microbial physiology, and develop a strong research program. Send curriculum vitae, statement of research objectives, and names of three references by 2 February 1990 to: Dr. J. S. Rice University Department of Biochemistry, 6101 Main Street, P.O. Box 1892, Houston, TX 77251. Rice University is an Equal Opportunity/Affirmative Action Employer.
Research Professionals in Biotechnology

ImmuNoGen is a rapidly growing biotechnology company dedicated to the development of immunotoxins and other cancer therapeutics. We are seeking talented scientists to join us in exploring new approaches to human disease. Research positions are available at Ph.D., M.S. and B.S. levels in our expanding research programs. Candidates should enjoy taking the initiative in solving scientific problems to achieve near- and long-term goals.

STAFF SCIENTISTS IN BIOCHEMISTRY

Candidates should have a Ph.D. in Biochemistry or related disciplines, with a strong research background in biochemistry. People with a proven record of realizing ideas through developing independent research projects, such as group leaders or junior faculty, would be strong candidates.

STAFF SCIENTISTS IN CELL BIOLOGY

Candidates should hold a Ph.D. in cell biology, immunology or related disciplines and have a strong research background and publication record in mammalian cell biology.

STAFF SCIENTIST IN MOLECULAR BIOLOGY

Our newly established molecular biology laboratory is developing a research program to include among other projects cloning, characterization and expression of cell surface antigens, construction, mutagenesis and expression of chimeric proteins. Qualified candidates should possess a Ph.D. in molecular biology and have a strong background in molecular cloning methods, cDNA library construction and screening, and DNA sequencing.

RESEARCH ASSOCIATES

A number of opportunities exist for associate scientists at the B.S. and M.S. level in cell biology, molecular biology, biochemistry and organic chemistry. Research areas include characterization and study of human cell lines, in vitro evaluation of immunotherapies for cancer and other diseases, DNA cloning and sequencing, drug synthesis and immunoconjugate construction.

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

Please send a detailed resume including three references and a statement describing your scientific interests and career goals. All responses will be acknowledged. Reply to: Jeanne Horgan, Personnel Department, ImmuNoGen, Inc., 148 Sidney Street, Cambridge, MA 02139.

IMMUENOGEN, INC.

An Equal Opportunity Employer
Now you can see your ad in *Science* four days after submission.
MOLECULAR GENETICIST
The Department of Molecular Genetics of The Ohio State University is initiating a search for one or more talented molecular geneticists for tenure track Assistant Professor positions. We are particularly interested in applicants with research interests in molecular genetic studies of major topics in cell and developmental biology using experimental systems such as yeast, Drosophila, Caenorhabditis, Mus and Arabidopsis. However, highly qualified applicants with other research specialties within the broader mandate of our unit will also be considered seriously. A highly competitive recruiting package is available, including an attractive (hard money) salary, generous laboratory space, ample funds for equipment purchase and funds for initial operating expenses. Women and members of minority groups are encouraged to apply.

Applications should include a detailed curriculum vitae, a description of research experience, a statement of the nature of the planned independent research program, and the names, addresses and telephone number of each of four scientists who have agreed to serve as references. Applications will be accepted until suitable candidates are hired but recruiting is scheduled to begin in earnest by March, 1990.

Information about our Department can be obtained by calling our offices at 614-292-8084.

Application materials should be sent to: Molecular Genetics Search, Department of Molecular Genetics, The Ohio State University, 484 W. 12th Avenue, Columbus, Ohio 43210

The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

FULL PROFESSOR VISION RESEARCH
Applications and nominations are invited for a tenureed research position at the level of Professor in the Eye Research Institute of Oakland University. The candidate must be an established investigator with Ph.D., M.D. or equivalent, a minimum 10 years experience in independent research, a strong publication record and, where appropriate, proven ability to secure continuous external grant support. We are particularly interested in established scientists in molecular biology or immunology who have, or will make, a strong commitment to vision research. Investigators in other areas of biomedical sciences who will make the same commitment will also be considered.

Opportunities exist for collaboration with current faculty who are engaged in research in the biochemistry, physiology and molecular biology of the cornea, lens, retina and intraocular fluids. In addition, collaboration on clinical research projects is also possible with faculty and residents of the affiliated Department of Ophthalmology of a major area hospital.

The Eye Research Institute is an independent academic unit of Oakland University, a state supported institution situated on a 1400 acre campus, 25 miles north of Detroit, with an enrollment of 12,300 students in baccalaureate and doctoral programs.

Applications should send a curriculum vitae, 3 to 5 reprints and the names of three references by February 16, 1990 to: Dr. M. V. Riley, Chair, Search Committee, Eye Research Institute, Oakland University, Rochester, MI 48309.

An Equal Opportunity/Affirmative Action Employer

SIMON FRASER UNIVERSITY BIOCHEMIST
Protein Structure/Function & Enzymology Rank Open
The Institute of Molecular Biology and Biochemistry at Simon Fraser University is expected to occupy a new $20.6 million research/teaching facility in mid 1992. As a major participant in this initiative, the Department of Chemistry is seeking applicants from outstanding scientists at all ranks for a tenure track position (rank open). The successful candidate will be expected to establish a productive research program in an area of protein structure and function or enzymology. Applications should include a curriculum vitae, an outline of current research interests and reprints of recent publications.

Applicants should send a letter of support, from at least three referees to be sent directly to:

Prof. A.C. Gehlelelagh, Department of Chemistry/Biochemistry Simon Fraser University Burnaby, British Columbia Canada, V5A 1S6

The closing date for this competition is April 30, 1990. In accordance with Canadian immigration practice, priority will be given to Canadian citizens and landed immigrants.

Simon Fraser University offers equal employment opportunities to qualified applicants.

FULL PROFESSOR VISION RESEARCH
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DIRECTOR
BIOTECHNOLOGY INSTITUTE FOR TECHNOLOGY TRANSFER
University of Florida, Gainesville, FL

The University of Florida is seeking an outstanding leader and scholar to direct the Biotechnology Institute for Technology Transfer at the University of Florida Research and Technology Park. The University is a comprehensive research institution with over $161 million in annual research funding and more than 300 faculty actively involved in biotechnology research. The Director of the Biotechnology Institute reports directly to the Vice President for Research and has the mandate to facilitate and oversee emerging biotechnology companies at the Research Park and to lead in biotechnology transfer from the University to industry. Major responsibilities include identifying commercially significant research at the University; establishing partnerships with industry to develop commercially valuable biotechnology discoveries; marketing biotechnology patents and discoveries to commercial firms; providing and managing Research Park facilities which join the University to industry in order to develop commercially viable products.

Applicants must have demonstrated experience in successful technology transfer; a background in successful administrative leadership; Ph.D. preferred or post baccalaureate degree with research experience; scientific proficiency in biotechnology essential; demonstrated ability to negotiate and obtain funding at the highest administrative levels of business, industry and government; sensitivity toward and ability to work with diverse groups; commitment to affirmative action and equal opportunity. Salary will be commensurate with the experience and qualifications of the individual candidate.

Applicants must submit a letter of application that addresses each of the responsibilities of the position, a current curriculum vitae, and the names, addresses and telephone numbers of three references. Nominations and applications should be sent to: Ms. Roxanna Bruce, Office of the Vice President for Research, 223 Grinter Hall, University of Florida, Gainesville, FL 32611-3037. Deadline: for Receipt of completed applications: February 1, 1990. The University of Florida is an Equal Employment Opportunity/ Affirmative Action Employer.
MARINE CENTER DIRECTOR

The Louisiana Universities Marine Consortium, an organization of Louisiana's public universities, invites applications and nominations for the position of DIRECTOR of the Louisiana Universities Marine Center. Duties for the position include guiding research and education programs and administrative operations of the Marine Center in Cocodrie, Louisiana, and two field stations. The Marine Center Director will report to the Chancellor of the University and will also serve as the Consortium's Associate Director. The successful candidate is encouraged to maintain a program of independent research dealing with some aspect of the coastal marine environment, and an appointment to the faculty of one or more member universities is expected. The Marine Center contains 30,000 square feet of research laboratories and associated facilities, including 12,000 square feet of laboratory space, a large marine animal research tank, a marine biology teaching laboratory, and a 100-ton research diving facility.

The University of Louisiana at New Orleans, in the southeast corner of Louisiana, offers undergraduate and graduate programs in marine science, oceanography, and a variety of other fields. Applicants are encouraged to familiarize themselves with the University by visiting the website http://www.Uno.edu. Applications should include a letter of interest, a curriculum vitae, and three letters of reference. Women and minorities are encouraged to apply. The position is available August 1, 1990. To be considered, applications should reach the University before January 31, 1990. For further information, contact Dr. Donald F. Boesch, Chair, Marine Center Search Committee, Marine Center, University of New Orleans, New Orleans, LA 70122-3099. The University of Louisiana at New Orleans is an Equal Opportunity/Affirmative Action Employer.

UM

The University of Manitoba Faculty of Science

MOLECULAR BIOLOGIST

The Department of Zoology, University of Manitoba, has a tenure-track position for a molecular biologist to start September 1990. Salary is dependent on qualifications and experience. Applicants must have at least Ph.D. with postdoctoral experience in development, evolution, or genetics. Promising applicants from other areas of metazoan molecular biology are also encouraged. Responsibilities include undergraduate and graduate teaching and developing an independent, vigorous research program. Start-up support is available and opportunities exist for collaborative research. Women and minorities are encouraged to apply. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Applicants are encouraged to record the identity of three references, including representatives of the employer. The position is available effective August 1, 1990. To be considered, applications should reach the University before January 31, 1990. For further information, contact Dr. L.E. Lee, Zoology Department, University of Manitoba, Winnipeg, MB, Canada R3T 2N2.

MOLECULAR BIOLOGIST

Studying cellular or developmental phenomena in a eukaryotic system.

The Biology Department of Boston College has a full-time tenure-track position available at the ASSISTANT PROFESSOR level beginning in September 1990 for an individual with a Ph.D. and at least 2 years of postdoctoral experience to establish a vigorous, externally funded research program. In addition to teaching in his/her area of expertise, the candidate will be expected to contribute to departmental teaching needs in one area such as: introductory biology, immunology, cellular biology, or evolution.

Boston College has a curriculum of 14,000 students, has a growing Biology Department with 20 faculty members and 80 graduate students in the M.S. and Ph.D. programs. The university has a strong commitment to research and offers competitive salaries, excellent start-up funds, and well-equipped facilities. Applications should include curriculum vitae, a list of publications, and a summary of current research interests. The successful candidate should also arrange for three letters of reference to be sent. All materials should be received by 31 January 1990 by:

Search Committee
Biology Department
Higgins Hall
Boston College
Chestnut Hill, MA 02167

Equal Opportunity/Affirmative Action Employer.

MANAGER CYTOCHEMISTRY/MICROSCOPY FACILITY

To direct a new core facility to localize proteins and nucleic acids using confocal microscopy. This facility will serve a faculty community of 25 with diverse interests in cell, developmental, and molecular biology. The manager should have completed a Ph.D. in molecular and cell biology (a postgraduate degree, masters or higher, is necessary) and at least 5 years of full-time research experience with both immunological and immunocytochemical methodology. Experience with confocal microscopy is also essential. The manager will be responsible for drafting major equipment purchase proposals, writing research grants for this purpose, set up and maintain new equipment including a confocal microscope, and manage physical reorganization and plan changes. The facility will be a faculty of two, plus the manager. A strong background in research administration is necessary. Call or write to:

Dr. Jerry A. Chauvin, Search Committee, Department of Biology, University of Louisiana at Lafayette, Lafayette, LA 70504. Closing date is 15 February 1990.

PEDIATRIC INFECTIOUS DISEASES

The University of California San Francisco (UCSF) is seeking a Board-certified academic pediatrician at the ASSOCIATE PROFESSOR level to participate in the research, teaching, and clinical activities of the Infectious Diseases Division of the Department of Pediatrics. Candidates must have completed infectious diseases fellowship with additional training in molecular biology, and have the capacity to establish a research program in infectious disease pathogenesis or immunology/infectious diseases. Approximately 80% time will be spent on research and the remainder on clinical and teaching duties in the department. Please submit curriculum vitae to: Dr. Donald F. Boesch, M.D., Pediatric Infectious Diseases, Department of Pediatrics, UCSF, San Francisco General Hospital, 1001 Potrero Avenue, San Francisco, CA 94158. The University of California is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

PHYSIOLOGICAL ECOLOGIST

The Department of Biology at Berry College invites applications for a search committee position at the ASSISTANT PROFESSOR level (Ph.D. required). The successful candidate will join a department with a research program focused on non-mammalian model systems. The candidate will teach either anatomy and physiology or vertebrate physiology and contribute to the introductory biology program. Berry College is unique in that the entire community exists to develop an upper level course in physiological ecology. Research with undergraduates and publication expected. Send curriculum vitae, three letters of recommendation by 15 February 1990 to: Dr. Robert A. Martin, Department of Biology, Berry College, Mt. Berry Station, Rome, GA 30160. Equal Opportunity Employer.

PLANT ECOLOGIST

Tenure-track ASSISTANT/ASSOCIATE PROFESSOR position starting 1990–1991 academic year. Candidates should be able to provide broad orientation and bring modern approaches and techniques to research on terrestrial problems in Hawaii. The Botany Department's commitments include the investigation of mechanisms in the ecology and evolution of Hawaiian ecosystems and species. Responsibilities include research, teaching, and service; courses could include introductory botany or biology, upper-division ecology, and a specialized graduate course. Send curriculum vitae, reprints, statement of research and teaching interests, and names of three references to: Chair, Search Committee, Botany Department, University of Hawaii at Manoa, 3190 Maili Way, Honolulu, HI 96822. Closing date for receipt of applications is 15 February 1990. Inquiries accepted. Fax: 808-943-8380. An Equal Opportunity/Affirmative Action Employer.

PROGRAM MANAGER, BIOLOGICAL ANALYTIQS, INC.

The Office of Technology Assessment, a science/technology agency of the U.S. Congress, is seeking a senior manager, responsible for overseeing the conduct and ensuring the quality of studies conducted by the Biological Applications Program. Candidates must have a doctorate in biological sciences or equivalent experience, extensive subject area knowledge, and be capable of supervising 20 staff in producing reports for Congress that improve understanding of relevant technological issues. Must be expert in research methods, public policy, management, and administration; able to exercise judgment appropriate to a legislative environment; and assure that studies are objective and free from advocacy. Advantages: Fulltime position, Washington, D.C. Search Committee, Office of Technology Assessment, U.S. Congress, Washington, DC 20510. Please reply by 31 January 1990. Equal Opportunity Employers.

REGIONAL ECOLOGIST

The Nature Conservancy invites applications for an individual to work with state natural heritage programs, the academic community, and other experts to address invasion of a national community classification and the identification of plant communities of conservation concern. The position requires technical expertise in plant community ecology. Send curriculum vitae and names of three references to: Dr. Larry Master, The Nature Conservancy, 294 Broadway, Boston, MA 02108. Equal Opportunity Employer. 617-542-1900. The Nature Conservancy is an Equal Opportunity Employer.
The Cancer Research Institute

is pleased to announce the recipients of its

1989 William B. Coley Award
for
Distinguished Research in Immunology

Dr. Howard M. Grey
Vice President, Research and Development
Cytel Corporation
La Jolla, California

Dr. Alain Townsend
Lecturer in Immunology
Institute of Molecular Medicine
University of Oxford
Oxford, England

Dr. Emil R. Unanue
Mallinckrodt Professor and
Chairman, Department of Pathology
Washington University School of Medicine
St. Louis, Missouri

The Cancer Research Institute
133 East 58 Street, New York, NY 10022 212-688-7515

Air Force Office of Scientific Research

Summer Faculty and Graduate Student Research Program

The USAF Summer Faculty Research Program (SFRP) and Graduate Student Research Program sponsored by the Air Force Office of Scientific Research and conducted by Universal Energy Systems, Inc. (UES) provides research opportunities for qualified faculty members and graduate students of U.S. Institutions of higher education. The research will be conducted at one of 23 participative Air Force Laboratory Centers.

- Electrical Engineering
- Mechanical Engineering
- Aeronautical and Astronautical Engineering
- Biomedical Engineering
- Chemical, Industrial and Civil Engineering
- Physics
- Computer Modeling and Computer Science
- Chemistry
- Mathematics
- Behavioral Science
- Operations Research
- Metallurgy
- Meteorology and Geophysics
- Life Sciences, Biology and Biophysics
- Toxicology

To be eligible for participation, individuals must be U.S. citizens currently serving as full-time faculty or graduate students at U.S. Institutions. All qualified applicants will receive consideration without regard to age, color, race, religion, sex, or national origin.

Interested individuals are requested to contact:
SFRP Administrator
Universal Energy Systems, Inc.
4401 Dayton-Xenia Road
Dayton, Ohio 45432
Phone (800) 533-7532
Or (513) 426-9876

UES Universal Energy Systems
Equal Opportunity Employer
POSTDOCTORAL POSITIONS
available now to study myeloid membrane structure/function. Research
projects involve granulocyte membrane protein purification
and characterization of molecules recognized by myeloid-specific monoclonal antibodies. Send curricu-
lum vitae and three references to: Dr. Keith Skubitz, Department of Medicine, Box 325
UMMC, University of Minnesota Medical School,
Minneapolis, MN 55455. Equal Opportunity Employer.

MOLECULAR EVOLUTION. POSTDOCTORAL
POSITION with active group studying genetic
structure of social insect populations, available immedi-
ately. Position includes large-scale application
of probes for RFLP or VNTR polymorphisms,
and training of other personnel. Send curriculum vitae,
two letters of recommendation, and CV to:
Dr. David Queller, Department of Ecology and Evolu-
tion, Rice University, P.O. Box 1892, Houston,
TX 77251. Telephone: 713-527-4919.

POSTDOCTORAL POSITION available immedi-
ately in arteriosclerosis OCRG program to investigate
cellular chemistry of fibroblast using biochemical and
molecular biological approaches. Must be U.S. citizen or
permanent resident. Minority applicants desired. Send curricu-
lum vitae to:

Dr. Ira Tabas
Department of Medicine
Columbia University
New York, NY 10012

POSTDOCTORAL POSITIONS BIOMEDICAL ENGINEERING
BOSTON UNIVERSITY
Computational research in peptide structure and func-
tion. Training in the mathematical sciences and a strong
interest in biomedical research required. Send curriculum vitae
and list of publications to: Charles DeLisa, College
of Engineering, Boston University, 44 Cummings
Street, Boston, MA 02215.

POSTDOCTORAL POSITION. Available immedi-
ately for x-ray analysis of crystallized enzyme inhibitor
complexes relevant to blood clotting. Experience in
crystallography or biophysical chemistry desired. Send curricu-
lum vitae and addresses of three references to:
Dr. Brian Edwards, Department of Biochemistry,
Wayne State University, 540 East Canfield Avenue,
Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative
Action Employer.

POSTDOCTORAL /TRANSFACTION. Join a
group investigating the metabolic regulation of hu-
man liver gene expression with emphasis on retinoic acid
homeostasis during morphogenesis and epithelial cell
differentiation. Send e-mail with names and
telephone numbers of three references to:
Dr. Gregg Dueter, Department of Biochemistry,
Colorado State University (CSU), Fort Collins,
CO 80523. Deadline: 28 February 1990. CSU is an Equal Opportuni-
ty/Affirmative Action Employer. Equal Opportunity
ofices: 314 Student Services Building.

POSTDOCTORAL POSITION available immedi-
ately in molecular virology/immunology to study patho-
genic mechanisms of Simian Immunodeficiency Viruses (SIV) in nonhuman primates under the direction of Dr.
Jonathan S. Allans. The AIDS program is comprised of
five investigators currently funded in immune mecha-
nisms, vaccine development, chemotherapy, patho-
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UNIVERSITY OF COLORADO
HEALTH SCIENCES CENTER

NEUROSCIENCE PROGRAM DIRECTOR

The Neuroscience Program at the University of Colorado Health Sciences Center is seeking a permanent Director. Applications will be considered until the position is filled.

The Neuroscience Program is an interdepartmental Graduate Program, involving approximately 50 faculty members in both basic science and clinical departments within the School of Medicine. Faculty research interests range from molecular neurobiology to the organization of the central nervous system. A tenured position for the Director is available in the Department of Physiology. A new research building now under construction will provide an additional 14,000 square feet of space for the program, including a director's laboratory and office suite.

The School of Medicine has a broad, well-supported research base, with strong interdisciplinary programs in molecular biology, cell biology, and endocrinology, as well as in neuroscience.

Successful candidates for the position will be expected to maintain a vigorous research effort, and will be responsible for program organization, administration and development of program support.

Applicants should send a Curriculum vitae and the names of at least three referees to:

Professor A.R. Martin
Neuroscience Search Committee
Department of Physiology, C-240
University of Colorado Health Sciences Center
4200 East Ninth Ave.
Denver, CO 80262

The University of Colorado is an Equal Opportunity/Affirmative Action Employer. Minorities and women are especially encouraged to apply.

ASSISTANT/ ASSOCIATE INVESTIGATOR

The Lindsley F. Kimball Institute of The New York Blood Center

Position available for Ph.D. in molecular biology/ immunology to work with Dr. A.R. Neurath, biochemical virology laboratory.

Applicant must have four or more years of postdoctoral experience, and publication record demonstrating innovative and independent research accomplishments. Will also be expected to participate in the design of immunogens eliciting B- and T-cell immunity against human viruses, including the human immune deficiency virus.

Salary range $32,000-$50,000, depending upon experience and rank of appointment.

Send resume and three letters of recommendation to:
RN/Human Resources Dept
The New York Blood Center
310 East 67th Street, NY, NY 10021

The New York Blood Center
Equal Opportunity Employer M/F

CENTRE FOR PHARMACEUTICAL RESEARCH

Scientific Assistant to the Board

PARIS

Our client is one of France’s foremost health-care groups and a major force in international markets.

The scientific direction of the research departments (biology, chemistry, technology and projects) calls for an individual of outstanding calibre. Working closely with the Centre’s board, you will create the optimum conditions for the development of new drug therapies concentrating in particular on planning, coordination, innovation and scientific elegance.

You must have an excellent background in pharmaceutical chemistry combined with biology, gained at university (Doctorate or PhD) and through experience in either a pharmaceutical laboratory or in biological research. You must be bilingual (French/ English).

Please send a handwritten letter of application together with your CV to:
Média-System, 6 impasse des Deux Cousins, 75849 Paris Cedex 17, France. Please quote reference 66487 on the envelope.
**POSTDOCTORAL POSITION**

Available immediately for a Ph.D. in immunology to study T cell receptor (TCR) function. The work will focus on the role of CD8 and CD4 molecules in both molecular and cellular investigations. Previous experience with cellular immunological and/or molecular biological techniques would be desirable but is not essential. Send curriculum vitae, including names and telephone numbers of two references to: Dr. Terry Potter, Division of Basic Immunology, Department of Medicine, National Jewish Center, 1400 Jackson Street, Denver, CO 80206.

**BIOCHEMIST**

POSTDOCTORAL OPPORTUNITY

Battelle, Pacific Northwest Laboratories, seeks a biochemist, preferably with experience in protein characterization and peptide sequence determination by conventional methods. The successful candidate will participate in the development and application of "unconventional" methods based on the combination of capillary electrophoresis and electrospray ionization mass spectrometry. Battelle, Pacific Northwest Laboratories, offers a diverse and dynamic scientific environment. Located in southeast Washington, the area boasts a favorable climate, a variety of affordable quality housing, and an abundance of year-round recreational opportunities, to name a few.

Applications must have a Ph.D. in biochemistry or related discipline. Candidates should send current curriculum vitae to: A. F. Gasparino, Pacific Northwest Laboratories, northeast Department, P.O. Box 999, Richland, WA 99352. Fax: 509-376-9909.

U.S. citizenship is required for all positions. Battelle is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION**

at the Dana-Farber Cancer Institute, Harvard Medical School: molecular basis of recognition by T cell receptor gamma-delta. Position involves development of a molecular basis of recognition by human gamma-delta T cell receptor. Work involves derivation and characterization of antigen-specific gamma-delta T cell clones, cloning, sequencing and transfection of T cell receptor genes, and in vivo site-directed mutagenesis of T cell receptor genes to delineate the residues involved in antigen recognition. Position carries an appointment at Harvard Medical School. Please send curriculum vitae and names of three references to: Dr. Hamid Band, Laboratory of Immunology, Mayer 640, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. Telephone: 617-732-3085. An Affective Action/Equal Opportunity Employer.

A full-time POSTDOCTORAL RESEARCH ASSOCIATE position is available beginning 1 February 1990 for work in animal virology. The project involves microbiology, biochemistry, biology, fisheries science, or related field required. History of research in animal virology development, work and laboratory techniques, and experience in recombinant DNA technology, protein purification, immunization of live animals, and tissue culture is an asset. Send letter of application, curriculum vitae, and three letters of reference to: Dr. J. C. Leong, Department of Microbiology, Oregon State University, Corvallis, OR 97331-8804 or before 15 January 1990. Oregon State University is an Equal Opportunity Action/Equal Opportunity Employer and complies with Section 504 of the Rehabilitation Act of 1973 and has a policy of being responsive to the needs of dual-career couples.

**POSTDOCTORAL RESEARCH ASSOCIATES**

The Vitamin and Mineral Nutrition Laboratory at USDA, Human Nutrition Research Center, has two positions available immediately in nutritional biochemistry. Research is directed towards the following areas: the nutritional biochemistry and utilization of dietary minerals; the cellular mechanisms of mineral absorption; and the metabolism of minerals in health and disease. Applicants should have a Ph.D. in nutrition, biochemistry, or related field. Please send curriculum vitae, including three references to: Dr. Harold Good win, Department of Human Nutrition, USDA, Building 216, Beltsville, MD 20705. Telephone: 301-443-2325. An Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH ASSOCIATE**

at the University of California, Los Angeles, positions available in the area of nitric oxide (NO) and related metabolic pathways. Projects involve the use of NO to modulate smooth muscle function, the interaction of NO with other vasodilators and vasoconstrictors, and the cellular mechanisms that control NO production and release. Research is supported by grants from the National Heart, Lung, and Blood Institute and the American Heart Association. The successful candidate will have a Ph.D. in biochemistry, biochemistry, or related field. Please send curriculum vitae, including three references to: Dr. Matthew K. Baker, Institute of Medical Research, University of California, Los Angeles, CA 90024. An Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH ASSOCIATE**

at the National Institutes of Health, the National Institute of Environmental Health Sciences, and the Environmental Protection Agency, positions available immediately in the areas of environmental health science, epidemiology, and toxicology. The research involves the use of molecular and cellular biology techniques to study the effects of environmental factors on human health. Applicants should have a Ph.D. in environmental health science or related field. Please send curriculum vitae, including three references to: Dr. J. Michael Saikalis, Environmental Health Sciences, National Institute of Environmental Health Sciences, Research Triangle Park, NC 27709. An Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH ASSOCIATE**

at the University of California, Los Angeles, positions available immediately in the area of nitric oxide (NO) and related metabolic pathways. Projects involve the use of NO to modulate smooth muscle function, the interaction of NO with other vasodilators and vasoconstrictors, and the cellular mechanisms that control NO production and release. Research is supported by grants from the National Heart, Lung, and Blood Institute and the American Heart Association. The successful candidate will have a Ph.D. in biochemistry, biochemistry, or related field. Please send curriculum vitae, including three references to: Dr. Matthew K. Baker, Institute of Medical Research, University of California, Los Angeles, CA 90024. An Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH ASSOCIATE**

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MilliGen/Biosearch: Opportunities in Science.

The MilliGen/Biosearch division of Millipore is developing new instrumentation and chemistries for DNA and protein research in our Burlington facility. Specifically, we are involved with synthesis and sequencing of proteins/peptides, and complementary separations technology. Backed by Millipore, a Fortune 500 international corporation, MilliGen/Biosearch has become a leader in this rapidly expanding field. Our tremendous recent growth has created the following opportunity:

Scientist

We are seeking a self-starting, team-oriented individual to develop analytical methods for the analysis characterization and isolation of DNA, peptides and proteins. The successful candidate will have a BS degree and familiarity with the techniques commonly used in an analytical laboratory, such as HPLC, GC, and UV. Instrumental troubleshooting skills and a working knowledge of computers are desirable.

We offer a comprehensive benefit package and a stimulating research environment. Interested candidates should submit their resume with references to: Employment Manager, MilliGen/Biosearch Division of Millipore Corp., 186 Middlesex Turnpike, Burlington, MA 01803. An Equal Opportunity Employer.

MilliGen/Biosearch Division of MILLIPORE

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SMITH COLLEGE
DEPARTMENT OF PHYSICS

The Smith College Physics Department invites applications for a tenure-track position in experimental physics at the Associate or Assistant Professor level. The candidate should have a Ph.D., an interest in teaching, and research interests amenable to collaboration with undergraduates. Preference will be given to persons with an established experimental program. Funds are available to start or extend a research project. Women and minorities are encouraged to apply. Located in Western Massachusetts, Smith College is a leader in the education of women and has an outstanding record in the number of professional women physicists who are alumnae. The Five College Consortium, comprised of Smith, Amherst, Mt. Holyoke, and Hampshire Colleges and the University of Massachusetts, provides a rich intellectual and cultural life for faculty and students as well as additional collegial opportunities in teaching and research. A curriculum vita, statement of teaching and research interests and experience, and three letters of reference should be sent to: Professor Bruce Hawkins, Chair, Department of Physics, Clark Science Center, Smith College, Northampton, MA 01063. Preference will be given to applications received before February 15, 1990. Smith College is an Equal Opportunity/Affirmative Action Employer.

SMITH COLLEGE

Senior Research Scientist

Metabolism and Pharmacokinetics

The Bristol-Myers Squibb Company and its Pharmaceutical Research and Development Division has an excellent career opportunity in its Metabolism and Pharmacokinetics Group, located in Syracuse, New York. This Group plays a key role in the drug development process by providing pharmacokinetic, metabolic and biopharmaceutic information from pre-clinical and clinical studies for worldwide regulatory submission. Candidate drugs under development are targeted for the treatment of cancer, infectious diseases, cardiovascular diseases and central nervous system disorders.

The Senior Research Scientist we seek will have supervisory responsibilities commensurate with qualifications and will be responsible for producing the entire pre-clinical/clinical metabolism and pharmacokinetic registration package for selected drug candidates. Should have a Ph.D. in Pharmacology, Biopharmaceutics, Medicinal Chemistry or related field with approximately 5 years of relevant experience and a track record of success. Excellent oral and written communication skills are must.

We offer an outstanding compensation package and a comprehensive benefit program which includes relocation assistance to a superb Upstate NY living area. Interested candidates should submit a resume with salary requirements to: EMPLOYMENT MANAGER

BRISTOL-MYERS SQUIBB COMPANY
RESEARCH AND DEVELOPMENT DIVISION
P.O. Box 4755, Syracuse, New York 13221-4755
An equal opportunity employer M/F/H/V

MARINE AND ESTUARINE BIOLOGY
WESTERN WASHINGTON UNIVERSITY

The Department of Biology of Western Washington University invites applications for two tenure-track positions in marine and estuarine biology at the level of assistant or associate professor. Candidates should hold the Ph.D. degree and be strongly committed both to teaching at the undergraduate and graduate (M.S.) level and to an active research program. Faculty are sought in the following disciplines to start September 15, 1990:

1) PHYTOPLANKTON ECOLOGY/NUTRITION DYNAMICS. Teaching includes an undergraduate course in marine algae, a graduate course in biological oceanography, and participation in other departmental course offerings on the main campus and at Shannon Point Marine Center (SPMC). Research interests should be in primary productivity and nutrient cycling in coastal marine systems. Interest in algae physiology is also desired. Research program will be based at the SPMC in Anacortes, Washington.

2) MARINE MICROBIAL ECOLOGY. Teaching will include an undergraduate course in lower organisms, a graduate course in microbial ecology, and participation in the departmental course offerings on the main campus and at SPMC. Research interests should be in the role of marine microbes in energy/biomass transformations, biogeochemical cycling, or benthic-water column interactions.

Western Washington University enjoys a strong national reputation. The Department of Biology consists of 16 faculty and has strong programs in marine biology and ecology and a rapidly developing program in cellular and molecular biology. WWU has a strong commitment to the marine sciences. Existing resources at WWU include seven marine science faculty, the Shannon Point Marine Center, a Biology B.S. degree option in Marine Biology, a Biology M.S. degree option in Marine and Estuarine Science, and excellent library holdings. Program expansion includes a new science complex on the main campus currently in the design phase, capital development of the Shannon Point Marine Center, and new equipment funds.

Candidates should submit a resume, statement of teaching experience, teaching and research interests, the names of at least four referees and indicate for which position you are applying. Review of applications will begin on January 30 and will continue until the positions are filled.

Candidates for both positions should submit materials to Dr. June Ross, Chair, Department of Biology, Western Washington University, Bellingham, WA 98225. WWU is committed to enhancing the diversity of the faculty: women and minorities are encouraged to apply. WWU is an Affirmative Action/Equal Opportunity employer.
RESEARCH ASSOCIATE (postdoctoral) position available immediately with group studying second messenger regulation of epithelial transport activity in eye tissues. Requires Ph.D. and an understanding of either (i) intracellular microelectrode or patch-clamp methodology, or (ii) work with radioactive or fluorescent techniques, and names of three references to: Dr. Nicholas Dalmere, Department of Ophthalmology & Visual Science, University of Louisville, Louisville, KY 40292, U.S.A. The University of Louisville is an Affirmative Action/Equal Opportunity Employer.

The University of Arizona has two positions available at the RESEARCH ASSOCIATE level to conduct a program on comparative evaluation of stem cells derived from various sources in hematopoietic-immune reconstitution. The successful candidate(s) will establish the relevant test system in vitro and in vivo, develop clinical and other collaborations, train and supervise staff, and participate in directing and planning the program. Candidates must have general familiarity with hemopoietic and immunologic in vitro and in vivo systems, and experience in clinical and basic research settings. The University of Arizona is an Affirmative Action/Equal Opportunity Employer. Women and minorities are urged to apply.

RESEARCH ASSOCIATE TO study the neuropharmacological aspects of cognitive processes using Pavlovian conditioning procedures, rodent microsurgery, analysis/angiography and digestive histochemical tests, metabolic mapping, and statistics. Send resume by 22 December 1989 to: Dr. George A. Cicala, Department of Pharmacology, University of Connecticut Health Center, Farmington, CT 06032. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE IN PLANT PHYSIOLOGY The Experiment Station of the Hawaiian Sugar Planters Association (HSPA) is seeking candidates for a 2-year position at the Ph.D. level. Objectives of the project are to develop resistance of young sugarcane plants to broad spectrum herbicides, including sulfonylureas and phosphonic acids. Approaches include stress and mutagenic treatment of tissue-cultured material, as well as selection of sugarcane transformants via integration of transgenic markers. The position will include analysis of selected mutants/variants to pinpoint their mode of resistance acquisition and, if new, to investigate a molecular mechanism of resistance. The Experiment Station is located in the Honolulu area. Senior staff includes a cohabiting group of about 15 scientists in the fields of biology, chemistry, microbiology, molecular biology, genetics, breeding, and pathology. Most of the scientists hold a joint appointment within the University of Hawaii, and there is close collaboration with university staff. Research is conducted in a modern, well-equipped facility and publication of findings is strongly emphasized. The position is funded at a salary of $30,000 and includes medical, dental, and vacation benefits. Submit curriculum vitae and two letters of recommendation or contact: Dr. A. Mareczko, HSPA, P.O. Box 1057, Aiea, HI 96701. Telephone: 808-486-5373.

RESEARCH SCIENTISTS. Performs independent research and publishes in area of biochemistry and molecular biology, re RNA transport and ribosomal biogenesis. Utilizes microinjection apparatus and microinjection (or ATPase biochemical, general and genetic analyses and background in nucleic acid and recombinant DNA Skills in ultracentrifugation techniques, spectropolarimetry, electron microscopy, rehydration, and labeling of recombinant proteins, and computer and radiation safety equipment required. Supervises students and technician in the area of biophysics. Send curriculum vitae, references, and names and addresses of three professional references to: Dr. P. (A.B.D.), 3 years as research scientist, research assistant, or research associate required; 40 hours per week. $22,000 per year. Contact: Bethesda Job Service, 55-61 West St., Bethesda, Baltimore, 80188. Job Order #4253220.

RESEARCH ASSOCIATE. Research focuses on isolation and chemical characterization of the immunity and tumor antigens that have been implicated in induced resistance of tobacco, using chromatographic techniques, and development of techniques to bioassy signal transduction pathways. Requires Ph.D. and experience with methods for protein identification, purification, and assays of key enzymes, proteins, and antifungal compounds in immunization procedures. Hours are flexible. Must be able to work with live animals, isolated tumor lines, and cultures of immunized plants. Minimum requirements include a Ph.D. degree in plant pathology with a strong background in host-plant interactions, plant cell suspension and tissue culture, and a proven record of productivity. Salary: $21,000 per year. Send resumes to: Tillee Moore, Kentucky Job Service, Room 7884, 500 South Upper Street, Lexington, KY 40508.

RESEARCH SCIENTIST. Isolation of factors inhibiting melanization in frog skin through protein (soluble and membrane) and oligosaccharide purification and characterization, HPLC and other chromatographic techniques and other methods. Must have M.S. and P.L. in Biochemistry or related field. Experience, and college level course work in biochemistry and immunology required. Send curriculum vitae to: M.D. Burack, Director, Immunology, University of Arizona, Tucson, AZ 85724. The review of applicants will continue until the position is filled. University of Arizona is an Equal Opportunity/Affirmative Action/Disabled/Minority Employer. Women and minorities are urged to apply.

RESEARCH ASSOCIATE. Research involves the isolation and structural characterization of recombinant proteins. Candidate must have performed research in molecular biology or related fields. The University of Arizona is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

RESEARCH SCIENTIST. 37½ hours per week, $42,500 per year. Research and development pertaining to polymer chemistry. Synthesizing water soluble polymeric emulsions for cosmetic use. Development of new methods in polymerization. Requirements: Ph.D. in polymer science/plastics engineering. Must have research experience in polymer chemistry. Experience with free radical polymerization, emulsion polymerization, and inverse emulsion polymerization. The University of Michigan is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.

ASSISTANT RESEARCH SCIENTIST, TRANSDERMAL TRANSPORT. To study the mechanisms of toxic compound penetration into human skin. Applicant should hold a Ph.D. in bioengineering, biophysics, or a related field; have postdoctoral experience in skin research; possess expertise in confocal microscope imaging, electron microscopy, computer modeling, and surface techniques; have requisite computer skills in data collection, analysis, and database manipulation. The appointee will be involved in both basic and clinical research. Send curriculum vitae, references, and names and addresses of three professional references to: Dr. P. C. Szoka, Jr., School of Pharmacy, University of California, San Francisco, CA 94143-0446. The University of California is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT RESEARCH SCIENTIST, PHARMACOLOGY, EXPERIMENTAL NEUROLOGY. This position is an opportunity for a postdoctoral researcher interested in the area of the immune response to polyethylene glycol (PEG) in experimental models of autoimmune diseases. The University of Arizona is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
POSTDOCTORAL TRAINING IN CELL REGULATION

The Department of Biochemistry, St. Jude Children's Research Hospital, announces a training program in the molecular and cellular biology of cell growth, differentiation and transformation. The program emphasizes a multidisciplinary approach that develops skills in biochemistry, molecular genetics and cell biology. Fellows benefit from training in energetic, well-funded laboratories within an expanding research institute. We offer competitive stipends plus the benefit of living in a growing, economical, sunbelt community. Specific research groups participating in the program include:

- W. Y. Cheung: Regulatory properties and biological functions of calmodulin; Ca++ regulated enzymes
- J. Cleveland: Growth factor signal transduction and regulation of gene transcription
- V. A. Fried: The ubiquitin system and post-translational regulatory pathways
- J. N. Ihle: Mechanisms of hematopoietic stem cell growth regulation, differentiation and transformation
- S. Jackowski: Regulation of phospholipid metabolism and the production of lipid-derived second messengers
- C. Rock: Cell cycle regulation of membrane biogenesis
- E. Thomas: Antimicrobial and antitumor mechanisms of leukocytes

Further information on individual research programs can be obtained by writing the Department of Biochemistry. Applicants should indicate the research group(s) they are interested in, submit a brief statement of their research interests, curriculum vitae, reprints, and names of three references to:

Postdoctoral Training Program
Department of Biochemistry
St. Jude Children's Research Hospital
332 N. Lauderdale
Memphis, TN 38105

An Equal Opportunity/Affirmative Action Employer

RECEPTOR BIOLOGY MOLECULAR ONCOLOGY

Sterling Research Group has three immediate openings in the Oncopharmacology Department. We are looking for scientists with experience in mammalian cell biology, cell surface receptors, and intracellular signal transduction, who have an interest in applying basic findings in these areas to the discovery of novel cancer therapies.

Senior Research Biologist

This individual will have a key role in identifying molecular targets for antitumor drug discovery and in the design of assay systems to exploit those targets.

The successful candidate will have a Ph.D. in Cell Biology, Biochemistry or other life science discipline; two or more years' postdoctoral experience in academic or industrial research; and experience in eucaryotic cell biology, receptor biology or molecular biology as demonstrated by refereed publications. Excellent written and verbal communication skills are essential. Research experience in basic mechanisms of tumor cell transformation is desirable. Please respond to position "SRG-65."

Research Biologists

These individuals will aid in the development of screening systems for the discovery of novel anticancer agents.

The successful candidates will have a B.S. (or equivalent) in a life science discipline and a minimum of one to three years' experience in academic or industrial research. Experience in tissue culture and radioisotope techniques is highly desirable, experience in molecular biology is desirable. Please respond to position "SRG-65."

Sterling Drug Inc. offers competitive salaries and a comprehensive benefits program along with outstanding career opportunities for personal and professional growth. For confidential consideration, please forward resume with salary history/requirements to: Employee Relations, "Position number as referenced above," Sterling Research Group, A Division of Sterling Drug Inc., 81 Columbia Turnpike, Rensselaer, NY 12144. An Equal Opportunity Employer M/F/H/V.
POSITIONS OPEN

TEACHING POSITION, EVOLUTIONARY BIOLOGIST. The Department of Biology, Emory University, invites applications for a non-tenure-track position at the ASSISTANT PROFESSOR rank. Responsibilities include teaching undergraduate courses in evolutionary biology and ecology and participating in graduate courses. The successful candidate should have experience in research and will become involved in supervising students in independent projects. The position is renewable for up to 3 years. Send curriculum vitae, a statement on experience and interest in teaching, and have three letters of recommendation sent to: EVOLUTIONARY BIOLOGY Search Committee, Department of Biology, Emory University, Atlanta, GA 30322. Review of applications will begin in January 1990. Emory is an Equal Opportunity/Affirmative Action Employer.

TRANSLATION IMMUNOLOGIST

As a leader in the field of biomedical research, we currently have an opening for a transplantation immunologist, with a Ph.D. and at least 2 years of experience in the understanding and manipulation of immunological reactions to tissue/cell transplantation. Experience in the design and implementation of animal studies for the evaluation of host response to implanted cells and devices highly desirable. Please submit curriculum vitae to: Department #952, Personnel Department, Hana Biologics, Inc., 850 Marina Village Parkway, Alameda, CA 94501, Equal Opportunity Employer.

U.S. ARMS CONTROL AND DISARMAMENT AGENCY

WASHINGTON, D.C.

VISITING SCHOLARS PROGRAM

The U.S. Arms Control and Disarmament Agency (ACDA) is conducting a competition for selection of visiting scholars to participate in ACDA’s activities during the 1990-91 academic year. The purpose of this program is to give specialists in the physical sciences and other disciplines relevant to the agency’s activities an opportunity for academic exchange in the arms control and disarmament activities of the agency and to gain for the agency the perspective and expertise such persons can offer. Visiting scholars must be citizens or nationals of the United States and on the faculty of a recognized institution of higher learning. For information on applications procedures, call or write: Visiting Scholars Program, Attention: Personnel Office, Room 5722, U.S. Arms Control and Disarmament Agency, 320 21st Street, N.W., Washington, DC 20461. Telephone: 202-647-2034. Application deadline is 31 December 1989.

FELLOWSHIPS

RESEARCH FELLOWSHIPS IN EPIDEMIOLOGY OF LUNG DISEASES

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

RESEARCH ASSOCIATE OR POSTDOCTORAL FELLOW

Biochemist/biologist wanted to investigate the molecular genetics of sulfite oxidase. Project involves identification and characterization of genes whose products are important in cell surface receptor mediated gene induction. Salary: $25,000 to $32,000 commensurate with experience. Send curriculum vitae to: Dr. Robert F. Dottin, Hunter College, CUNT, Center for Study of Gene Structure and Function, 695 Park Avenue, New York, NY 10021.

FELLOWSHIPS

Harvard University announces Bullard FELLOWSHIPS IN FOREST RESOURCES. Stipends available for advanced study in forestry. Fellowships are open to individuals in academic careers, public service, or private forestry with stipends up to $25,000. Further information may be obtained from the committee on the Charles Bullard Fund for Forest Research, Harvard University, Harvard Forest, Petersham, MA 01366. Deadline for applications: 1 February 1990.

POSTDOCTORAL FELLOWSHIP in molecular biogentic fibrosis (cf Research). A postdoctoral position is available in Dr. Joseph E. Fleischman’s lab. This position is focused on the general area of cellular protein and transfection of cDNA into mammalian cells. Applicants must have molecular biology experience. Salary is competitive and commensurate with experience. Comprehensive benefits. Please send curriculum vitae and names of three potential references: Mary C. Rose, Ph.D., Children’s National Medical Center, Department of Pediatrics, 111 Michigan Avenue, NW, R.114. Washington, DC 20010. Telephone: 202-745-3064. Affirmative Action/Equal Opportunity Employer M/F.

MAYTAG FELLOW IN ZOOLOGY

ARIZONA STATE UNIVERSITY (ASU)

One-year postdoctoral research fellowship emphasizing collaborative research with Dr. Peter J. vz. in the Department of Zoology. Applications must include curriculum vitae, three letters of recommendation, statement of research plans, and a letter of intent from the faculty sponsor. Application deadline: 15 January 1990. Starting date: 16 August 1990. Applications from two individuals wishing to share the position will be considered. ASU is an Equal Opportunity/Affirmative Action Employer. For more information, contact: Dr. James Collins, Chair, Department of Zoology, Arizona State University, Tempe, AZ 85287-1501. Telephone: 602-965-3571.

DOCTOR OF ARTS IN BIOLOGICAL SCIENCES. FELLOWSHIPS are available for persons interested in the D.A. degree in biological sciences. The program stresses preparation for teaching at colleges and universities. Applications must hold a master's degree in some area of biology. Deadline for receipt of application is 1 March 1990. For more information contact: Chairman, D.A. Committee, Department of Biological Sciences, Idaho State University, Pocatello, ID 83209. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

BROOKHAVEN NATIONAL LABORATORY

The Medical Department has a position available for a postdoctoral position in the Department of Nuclear Medicine. This is an established PET (Positron Emission Tomography) Program. The FELLOWSHIP offers research and clinical experience performing brain studies on substance abuse and patients who use psychotropic medications. The appointee will also have an appointment in the Department of Psychiatry at the State University of New York at Stony Brook. Candidates should be licensed and Board-certified, or eligible for certification. Interested candidates should contact: Dr. Nora D. Volkow, Medical Director, Brookhaven National Laboratory, Associated Universities, Inc., Upton, L.I., N.Y. 11973. Telephone: 516-282-3335. Equal Opportunity Employer M/F.

POSTDOCTORAL FELLOWSHIP

Position available immediately to study the mechanism of phorbol ester--induced differentiation of human leukemia cell lines. Studies center on assessing the posttranslational processing of protein kinase C, a critical protein kinase C isoform by biochemical, molecular, and immunological techniques; and evaluation of activation of the enzyme by phorbol esters.拧on gene transcription. Please send curriculum vitae to: D. Kirk Ways, M.D., Ph.D., Department of Medicine/Endocrinology, East Carolina University School of Medicine, Greenville, NC 27858. An Equal Opportunity/ Affirmative Action Employer. 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.

Leonard S. Florsheim, Sr.
Chair in Natural Sciences
(Molecular Biology)

New College of the University of South Florida invites applications and nominations for an endowed professorship in the Natural Sciences beginning fall semester, August, 1990. The position is open to a Ph.D. Scientist with associate professor or professor rank with demonstrated background and ability in undergraduate education and teaching gifted undergraduates and an outstanding teaching record are assumed. Research interest should be within the field of molecular biology, which could include aspects of cellular biology, developmental biology, neurobiology, physiology or related areas of biology. A strong research program that involves undergraduate participants is expected.

New College faculty members teach two courses per term, offer tutorials, and supervise senior theses. There is also an independent Study Period during the month of January. The Florsheim Professor will have discretion in selecting his/her courses. New College is a small, residential, highly selective honors college in the Florida State University System. There is an emphasis on small classes and individualized instruction. The Florsheim Professor is expected to become a permanent member of the New College Faculty; faculty responsibilities include participation in faculty governance as well as teaching and research. Compensation (salary, benefits, research support, travel) will be provided by a one-million dollar endowment.

Nominations and applications (including resume and three letters of recommendation) should be sent prior to January 24, 1990, to Dr. Richard Coo, Chair, Florsheim Search Committee, c/o Provost’s Office, New College, University of South Florida, 5700 N. Tamiami Trail, Sarasota, FL 34232. New College, University of South Florida is an Equal Opportunity/ Affirmative Action Employer.
RESEARCH FELLOWSHIPS IN
GERONTOLOGY—
Postdoctoral and senior fellow research fellowships, supported in part by training grants from the National Institute on Aging, are available at The University of Michigan Institute of Gerontology. Stipends and related expenses will be provided to qualified applicants. Postdoctoral trainees must have completed a Ph.D., M.D., or equivalent degree. Senior fellows must be established investigators, at least seven years beyond receipt of a doctoral degree, and interested in expanding their research into gerontology. Prospective faculty mentors represent the behavioral, biological, clinical and social sciences and the humanities as follows: W. A. Achenbaum, Ph.D.; R. C. Adelman, Ph.D.; D. Aminoff, Ph.D., D.Sc.; B. Carlson, M.D.; Ph.D.; B. J. Cohen, D.V.M., Ph.D.; J. A. Faulkner, Ph.D.; B. E. Fries, Ph.D.; A. Gafni, Ph.D.; J. B. Halter, M.D.; A. R. Herzog, Ph.D.; N. Krause, Ph.D.; J. Kuwada, Ph.D.; J. Liang, Ph.D.; M. A. Perlmutter, Ph.D.; D. Rosenblatt, M.D., Ph.D.; A. B. Schultz, Ph.D.; D. G. Steel, Ph.D.; M. Supiano, M.D.; B. Troen, M.D.; L. M. Verbrugge, Ph.D.; B. Villeponteuil, Ph.D.; W. Weissert, Ph.D.; T. P. White, Ph.D. Candidates should forward a letter of interest, complete curriculum vitae and bibliography, and identification of potential faculty mentor to: Ms. Jane Ketchin, Institute of Gerontology, The University of Michigan, 300 North Ingalls, Ann Arbor, MI 48109-2007. Postdoctoral candidates also should arrange for delivery of official copies of graduate transcripts and at least three letters of recommendation. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

Ciba Geigy Biotechnologie Department Basel, Switzerland

A Postdoctoral Fellowship Position

is immediately available for a period of up to three years at the Biotechnologie Department of Ciba-Geigy to study the molecular interactions between a protein and its receptor. The project will involve both genetic engineering of the cloned ligand protein and immunological epitope mapping of the binding domain to the receptor.

Applicants must have a good working knowledge of molecular biology techniques, expertise in immunological and biochemical characterization of ligand-receptor complexes.

The successful candidate is encouraged to establish contacts with the academic community. This position offers good possibilities to develop own ideas in a stimulating research environment. Publication of results is strongly encouraged.

Applications, including a curriculum vitae, a description of the current research interests and the names and addresses of three referees should be forwarded under ref. “Science 2731” to Mr. H. Schmid, CIBA-GEIGY Limited, Personnel Department, P.O. Box, 4002 Basel, Switzerland.

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FELLOWSHIPS

HUMAN NUTRITION INSTITUTE FELLOWSHIP, DIETITIATION AND AGING

The Human Nutrition Institute of the International Life Sciences Institute’s Research Foundation will award two fellowships in 1990 to encourage innovative investigators to develop research interests in the area of nutrition and aging. Each fellowship will provide $20,000 per year for 2 years. Applicants must have received their Ph.D., M.D., or D.D.S. degree within the last five years. The closing date for applications is 15 March 1990. To receive an application or additional information, write: The Human Nutrition Institute, ILSI Research Foundation, 1401 H Street, N.W., Suite 100, Washington, DC 20036.

YALE UNIVERSITY SCHOOL OF MEDICINE

POSTDOCTORAL FELLOWSHIP IN THERAPEUTIC RADIOLOGY

POSTDOCTORAL FELLOWSHIP. Exciting opportunity for Ph.D. with background in molecular biology, protein biochemistry, or immunology, and an interest in cellular biology or cell motility, to join a vascular and tumor cell biology laboratory at Yale Medical School. Current investigations center around ion channels, cyclic AMP and GTP, and cleavage of vascular and neural cell migration factor(s). Competitive salary. Please send curriculum vitae to: Dr. Eliot M. Rosen, Department of Therapeutic Radiology, 132 HRT, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.

POSTDOCTORAL FELLOWSHIP/FACULTY ASOOCATE.

Conduct studies on the regulation of the choline acetyltransferase expression in normal and Alzheimer’s brain. A Ph.D. in molecular biology, biochemistry, biology, or related fields preferred. Stipend commensurate with experience. Send curriculum vitae and names of references to: Dr. Louis B. Hersh, Biochemistry Department, University of Texas Southwestern Medical Center, 5325 Harry Hines Boulevard, Dallas, TX 75235-9038, An Equal Opportunity University.

The Division of Geological and Planetary Sciences at the California Institute of Technology expects to offer POSTDOCTORAL RESEARCH FELLOWSHIPS in one or more of the following areas: geology, geophysics, geochemistry, cosmochemistry, and planetary science. Interested individuals should send their resume to: Division Chairman, Division of Geological and Planetary Sciences (170-25) California Institute of Technology, Pasadena, CA 91125. An Equal Opportunity/Affirmative Action Employer.

TRAINING

METHODS IN COMPUTATIONAL NEUROSCIENCE 5 August to 1 September 1990. This intensive, advanced lecture and laboratory COURSE presents the basic theory and study single cell and neural networks using simulation software developed at the California Institute of Technology. Limited to 20 students. Co-directors: James M. Bower and Christof Koch, California Institute of Technology. Application deadline: 15 May 1990. For further information and application forms, contact: Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543. Telephone: 508-548-3705, ext. 216.

POSTDOCTORAL TRAINEEHIPS

The Department of Epidemiology, School of Public Health, University of Pittsburgh, is seeking applicants for a traineeship in diabetes. This program is funded by the National Institutes of Health and offers opportunities to participate in major epidemiologic studies concerning the etiology and natural history of diabetes mellitus. Trainees will have the opportunity to obtain a master’s or doctoral degree and would be expected to be active in data analysis and publication. Excellent opportunity for a Ph.D. with prior training in basic or clinical sciences, epidemiology, statistics, genetics, and behavioral sciences to be trained in diabetes-related topics. Salary is negotiable for Pennsylvania residents. Send resumes to: Trevor J. Orchard, M.D., Department of Epidemiology, School of Public Health, University of Pittsburgh, Pittsburgh, PA 15261.

The University of Pittsburgh is an Equal Opportunity/Affirmative Action Educational Institution.

ASSISTANTSHIPS

ASSISTANTSHIPS IN FRESHWATER BIOLOGY

The expanding program in freshwater biology at the University of Mississippi announces the availability of postdoctoral fellowships and graduate assistantships. Research and teaching assistantships are offered; supplement financial aid for exceptionally qualified candidates and minority students. Current and anticipated funding includes the areas of ecotoxicology (effects of toxicants and pollutants), aquatic plant ecology and physiology, stream ecology (nutrient cycling, fish behavior), reservoir ecology, environmental and applied microbiology (microbial ecology, microbial physiology, ecodiversity), evolutionary biology, wetlands, biocautics (aquatic insects), fish population biology and genetics, and fish physiology (swimming efficiency, energetics). Postdoctoral positions are available in coal biodosulfurization. Contact: James Kusman, Chair, Department of Biology, The University of Mississippi, MS 38677. Telephone: 601-232-7203.

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

GRADUATE ASSISTANTSHIPS in molecular biology and biotechnology. Several positions are available in the Department of Molecular Biology and Biotechnology at Wesleyan University (Middletown, Connecticut). Research interests of the faculty emphasize regulation of gene expression in embryogenesis and development; protein structure and function; DNA replication; yeast genes homologous to protein kinase oncogenes; structure and function of chromosomal proteins; protein modification; chemical reactions at phosphorus; nuclear magnetic resonance spectroscopy; and computer modeling. All students receive tuition remission, good fringe benefits, and dependability allowance, if applicable. Opportunities to teach. Write to: Dr. Norma Allwelt, Chair, Graduate Admissions, Department of Molecular Biology and Biotechnology, Wesleyan University, Middletown, CT 06457. Telephone: 203-347-9411, ext. 2524.

ANNOUNCEMENTS

FIRST ANNOUNCEMENT ORAL IMMUNIZATION USING RECOMBINANT BACTERIA 6–7 JUNE 1990, MUNICH, FRG


MOLECULAR GENETICS INHERITED RETINAL DEGENERATION YOUNG INVESTIGATORS AWARDS

The RP Foundation Fighting Blindness announces support of Young Investigator Awards in molecular genetics. A successful candidate will plan a full-time effort in the molecular genetics of inherited forms of retinal degeneration and will have an established connection to an ongoing research effort relevant to that topic. Requirements include a Ph.D. and/or M.D. plus at least 2 years of postdoctoral experience. Application may be made at any time. Reviews will be conducted promptly and a notification of receipt of the completed application, including letters of recommendation. Awards will be individualized and can encompass salary and/or research support. It is contemplated they will average $50,000 per year and extend for 3 to 5 years. For full information, contact: Jeannette S. Felix, Ph.D., Director of Research and Education, RP Foundation Fighting Blindness, 1401 Mt. Royal Avenue, Baltimore, MD 21217. Telephone: 301-225-9400.

SYMPOSIUM

SYMPOSIUM ON GROWTH FACTORS IN REPRODUCTION

CHAIRMAN: DAVID W. SCHOMBERG, Ph.D.
1–4 April 1990
Hyatt Regency Hotel
Savannah, Georgia
Sponsored by the Society, USA

Major scientific sessions are: mechanism of growth factor action, growth factors and gonadal function, regulation of normal and neoplastic mammary growth, regulatory peptides in reproductive tract development and function, and embryonacional, offers sixteen CME credit hours. Abstract forms and registration information may be obtained by contacting: L. Lisa Kern, M.D., Serono Symposia, USA, 100 Longwood Circle, Norwalk, MA 02061. Telephone: 800-283-8088; 617-982-9000.

REQUEST FOR PROPOSALS

REQUEST FOR PROPOSALS MOLECULAR GENETIC STUDIES INHERITED RETINAL DEGENERATIONS

Proposals are invited for molecular genetic analysis of inherited retinal degenerations such as retinitis pigmentosa and allied disorders, Usher syndrome, and inherited macular degeneration. Preliminary data on mapping, isolation, and characterization of genes causing a form(s) of retinal degeneration. Proposals to study gene defects in animal models, using molecular genetic approaches, are also invited. New and renewal applications will be reviewed by a special panel of consultants to the RP Foundation Scientific Advisory Board, solely on the basis of scientific merit and direct relevance. Awards will average $100,000 annually for 3 years. Interested individuals should submit a letter of intent which briefly summarizes the proposed research approach, describes background of the laboratory, and gives an approximate budget and the curriculum vitae of the principal investigator. Following a preliminary review, complete applications will be invited from a limited number of applicants. Deadline for letter of intent is 22 January 1990, for application is 1 April, 1990, and funding is expected to begin 1 September 1990. Address letters of intent to: Jeanette S. Felix, Ph.D., Director of Science, RP Foundation Fighting Blindness, 1401 Mt. Royal Avenue, Baltimore, MD 21217. Telephone: 301-225-9400.

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SCIENCE, VOL. 246
National Defense Science and Engineering Graduate Fellowships
Starting in Academic Year 1990–1991

As a means of increasing the number of U.S. citizens trained in disciplines of science and engineering of military importance, the Department of Defense plans to award approximately 120 new three-year graduate fellowships in April 1990. National Defense Science and Engineering Graduate Fellowships will be awarded for study and research leading to doctoral degrees in, or closely related to, the following disciplines:

AERONAUTICAL AND ASTRONAUTICAL ENGINEERING
BIOSCIENCES (includes Toxicology)
CHEMICAL ENGINEERING
CHEMISTRY
COGNITIVE, NEURAL, AND BEHAVIORAL SCIENCE
COMPUTER SCIENCE
ELECTRICAL ENGINEERING
GEOSCIENCES (includes terrain, water, and air)
MANUFACTURING SCIENCES AND ENGINEERING (includes Industrial Engineering)
MATERIALS SCIENCE AND ENGINEERING
MATHEMATICS
MECHANICAL ENGINEERING
NAVAL ARCHITECTURE AND OCEAN ENGINEERING
OCEANOGRAPHY
PHYSICS (includes Optics)

National Defense Science and Engineering Graduate Fellows selected in 1990 will receive a stipend in addition to full tuition and required fees. The amount of the stipend is $15,000 in 1990–91, $16,000 in 1991–92 and $17,000 in 1992–93. Also, the fellow's graduate academic department will receive $2000 per year.

Recipients of National Defense Science and Engineering Graduate Fellowships do not incur any military or other service obligation.

Specific information regarding the fellowship and an application package are available from Battelle Memorial Institute, a not-for-profit research institution, which is administering the program for the Department of Defense.

Application materials are available from Battelle at the following address:

NDSEG Fellowship Program
200 Park Drive, Suite 211
P.O. Box 13444
Research Triangle Park, NC 27709
ATTN: Dr. George Outterson
(919) 549-8505.

Completed applications must be received by Battelle by January 17, 1990.
"Recovering and purifying trace amounts of protein is surprisingly easy"

Chromatographers speak out about the Gilson Auto-Prep HPLC system

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

"Overnight operation has really increased throughput"

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

"Analytical and prep run results are reproducible"

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

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

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

"Upgrading to gradient analysis was easy"

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

To hear more, contact us today

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

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