Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no advertisements may be accepted over the telephone unless to be be published at least 2 weeks after date of issue in which ad appears. Also, personal advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, religion, age, color, national origin, handicap, or sexual preference.

LINE CLASSIFIED ADVERTISING DEADLINES: Thursday, 10:00 a.m., 2 weeks prior to issue date (mailed on issue date).

POSITIONS WANTED: 40¢ per word, plus $4 for use of box number, per week, $10.00 minimum, per week. Prepayment required. This rate is available only to individuals seeking jobs.

LINE CLASSIFIED (POSITIONS WANTED, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth): $35.00 per line, $350.00 minimum, per week (minimum charge covers one inch on a single column; one inch equals 10 lines of 52 characters and spaces per line). No charges for classified ad up to 50 words. Commision for ads less than 4 inches. No cash discount. Prepayment required for all foreign ads. Purchase orders must include billing address 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/or extra line space, and all lines printed in italic type and/or more than one column, and all non-English words and/or non-English characters are counted as full lines. Ad titles located within the text are treated as complete sentences. Ad titles are only 52 characters per line. In ESTIMATING the cost, multiply total lines × $35.00 = approximate cost of ad. (This is an approximate cost ONLY. Allow for variation between estimated lines and actual typographic lines and the resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.)

CANCELLATION POLICY: New cancellations made after Thursday, two weeks prior to issue date incur a 15% production change. Final cancellations are 12 days on 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 (19 lines or less) to: SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, 20005

Telephone: 252-380-6555

Send copy for fractional display ads, 1/6 page and larger, and all position wanted ads: Schenectady, Inc.
1535 Broadway
New York, NY 10036

Telecopy: 212-736-1501

Blind ad replies should be addressed as follows: Box (give number) SCIENCE 1333 H Street, NW Washington, DC 20005

POSITIONS OPEN

ACADEMIC HEMATOLOGIST/ONCOLOGIST. Seeking a physician, BC/BE in hematology and/or medical oncology, to serve as V.A. Medical Center with a tenure-track faculty appointment (assistant or associate professor level) at Duke University Medical Center. The V.A. and Duke research and clinical programs are combined, with the V.A. serving a major role in training of Duke medical students, housestaff, and fellows. The position requires skills in clinical oncology and teaching. A commitment to clinical and/or basic laboratory research is necessary. Send curriculum vitae to Duke University Medical Center, 508 Fulton Street, Durham, NC 27705. An Equal Opportunity Employer.

ANATOMIST—CELL OR MOLECULAR BIOLOGIST

One or two tenure-track positions will be available at the assistant or associate professor level in the Department of Anatomy at the University of South Carolina School of Medicine on 1 July 1988. The primary teaching responsibility for each position is in a section of the gross anatomy course. Applicants should have a strong potential to develop an externally funded research program or current support. Preference will be given to individuals whose research interests are in the areas of neuroendocrine, extracellular matrix, and cardiovascular biology. Laboratories that are employing cell and/or molecular biology techniques. Interested individuals should submit curriculum vitae and names and addresses of three references. A brief outline of research plans, and a brief summary of past research to: Dr. Louis Terraccio, Department of Anatomy, University of South Carolina School of Medicine, Columbia, SC 29208. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

Department of Pediatrics is recruiting an Assistant Professor (tenure-track) in molecular biology. Individual must have either Ph.D. or M.D., and will be expected to establish independent programs in molecular biologic approaches to airway epithelial cell biology. Laboratories are part of an interdepartmental center for the study of cystic fibrosis and related airway diseases. Clinical opportunities exist for candidates with clinical training. Send résumé and list of three references by 1 December 1987 to: Pamela Davis, M.D., Ph.D., Pediatric Pulmonary Division, Case Western Reserve University; Rainbow Babies and Childrens Hospital, 2101 Adelbert Road, Cleveland, OH 44106.

CWRU is an Equal Opportunity/Affirmative Action Employer.

Ohio State University Department of Biochemistry invites applications for a faculty position at the level of ASSISTANT PROFESSOR available 1 October 1988. We are seeking an individual with expertise in growth factor signaling pathways, receptor tyrosine kinases, extracellular matrix and/ or molecular mechanisms of signal transduction. A strong research record in both applied biochemical and theoretical approaches is required. A Ph.D. and/or postdoctoral experience is preferred. A competitive salary and benefits package will be available. Please send a detailed curriculum vitae and the names of three references to: Search Committee, Department of Biochemistry, Ohio State University, 484 West 12th Avenue, Columbus, OH 43210. Review of applications will begin 1 January 1988. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—MEDICINAL CHEMISTRY. The Division of Medicinal and Natural Products Chemistry of the College of Pharmacy at the University of Texas at Austin invites applications for a tenure-track position at the assistant professor level, to be filled by September 1988. While a candidate with a background in bioorganic chemistry will be given special consideration, candidates from all areas of medicinal chemistry are encouraged to apply. The candidate will be expected to establish an active research program and to contribute to teaching and service activities at the University of Texas at Austin. Further information may be obtained from Professor Frederick J. Smith, Department of Medicinal and Natural Products Chemistry, College of Pharmacy, The University of Texas at Austin, Austin, TX 78712. Applicants should submit a letter of inquiry, CV, and names of three references by 1 December 1987 to: Professor Frederick J. Smith, Department of Medicinal and Natural Products Chemistry, University of Texas, Bev. Building, Austin, TX 78712. University of Texas is an Equal Opportunity/Affirmative Action Employer.

Immunologist. Ph.D. Extensive academic and biotechnol- ogy industry research background. Specialized experi- ence in hybridoma technology, monoclonal antibodies, lymphocyte activation, and large scale tissue culture. Seeking ex- ert position in academic/industrial group. Box 156, SCIENCE.

Ph.D. Cytogeneticist. Board-certified in clinical cyto- genetics with good experience in cancer cytogenetics and molecular cytogenetics. Preference will be given to those with a cardiology-oriented position in a hospital or medical school. Box 172, SCIENCE.

Protein Biochemist. Research associate, 1981, 17 years of experience, expertise in enzyme engineering, glycoprotein, membrane protein, and antibiotic purification and characterization for structure and function, membrane receptors, neurotransmitters. The University of Texas in Canada. Box 161, SCIENCE.

SCIENCE, VOL. 238

986
POSITIONS OPEN

Barnard College (Columbia University) ASSISTANT PROFESSOR—Biophysical or bioorganic chemistry starting in September 1988. We are interested in individuals who wish to teach undergraduate chemistry and establish a strong undergraduate research program. Applicants should send a recent letter describing research and teaching interests and arrange for three letters of recommendation to be sent to: Sally Chapman, Chairman, Department of Chemistry, Barnard College, New York, NY 10027. Application deadline: 15 January 1988. Barnard is an Equal Opportunity/Affirmative Action Employer.

The Department of Anatomy of Thomas Jefferson University invites applications for a tenure-track ASSISTANT PROFESSOR position. Applicants should have postdoctoral training and a demonstrable ability to develop an active research program which utilizes cellular and/or molecular biological techniques in the analysis of developmental mechanisms. Candidates may participate in an NIH-funded pre- and postdoctoral training program in developmental biology/teratology. Candidates will be expected to have experience in teaching human gross anatomy so as to participate in our team-taught course for freshman medical students. Send curriculum vitae, statement of research plans and objectives, and three letters of reference to: Dr. Richard R. Schmidt, Chairman, Department of Anatomy, Thomas Jefferson University, 1020 Locust Street, Philadelphia, PA 19107. Thomas Jefferson University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR—Cell—molecular biology. Tenure-track, to start September 1988. Ph.D., vigorous research program including sponsoring of M.S. students, commitment to undergraduate training, required. Anatomy experience helpful. Open until filled, first screening by 2 January 1988. Send cover letter and curriculum vitae to: Dr. Sidney L. Beck, Chair, Department of Biological Sciences, DePaul University, Chicago, Illinois 60614.

ASSISTANT PROFESSOR OF PHYSIOLOGY. The Department of Physiology and Biophysics of the University of Louisville School of Medicine invites applications for this position. Applicants are expected to have a Ph.D. or M.D. degree, and 3 years of postdoctoral research training, and possess expertise in cardiovascular interaction with the gastrointestinal, systemic endocrine, and/or central nervous system. This position will require development of an active, independent research program, in collaboration with ongoing research programs, and participation in basic science teaching. The successful candidate will be expected to have a strong commitment to teaching responsibilities. The salary is from state-funded sources and is nationally competitive. Applications are invited from candidates expected to complete their postdoctoral fellowship by 30 June 1988. The screening committee reserves the right to screen applications before the advertised deadline. Candidates may telephone for an appointment at 502-421-1290. Send curriculum vitae and three letters of recommendation to: Louis Anderson, Chair, Department of Physiology and Biophysics, Health Sciences Center, University of Louisville, Louisville, KY 40292. The University of Louisville is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF TOXICOLOGY (PULMONARY CELL BIOLOGIST/IMMUNOLOGIST)

The Environmental Health Sciences Center at the University of Rochester School of Medicine and Dentistry invites applications for a tenure-track position at the assistant professor level to be filled by or before September 1 September 1988. We have a diverse, bio-physical, immunologic, or postdoctoral experience, and a strong commitment to study mechanisms of lung injury at a cellular and molecular level. Successful candidates will be expected to develop independent, interdisciplinary research programs and participate in graduate education programs. Applicants should send their curriculum vitae, names of three references, and a statement of their research interest by 15 January 1988 to: Guenter Oberdorder, Ph.D., University of Rochester School of Medicine and Dentistry, Box BPHYS 575 Elmwood Avenue Rochester, NY 14642 The University of Rochester is an Equal Opportunity/Affirmative Action Employer.

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ASSISTANT/ASSOCIATE PROFESSOR
CLINICAL CHEMISTRY

The Department of Pathology, University of Louis-
ville School of Medicine, Kentucky, seeks applications for
a Ph.D. clinical chemist certified by the American Board of
Clinical Chemistry to lead the centralized Section of
Clinical Chemistry at Jewish Hospital-Western Medical
Center, serving hospitals with a combined bed capacity of
1,300. This is a tenure-track position; however, depending on
qualifications, immediate tenancy may be awarded. The
successful candidate must possess solid academic credit-
tials, a record of successful grant acquisitions, be experi-
enced in a leadership position in clinical chemistry, and
have demonstrated interest and ability to teach medical students
and residents in pathology. Graduate school teaching experience
derirable. Women and members of minority groups are
couraged to apply. This position will be accompanied by
curriculum vitae, names of four references, be postmarked on or before 31 December 1987, and addressed to: Bogdan Nedelko,k, M.D., Chairman, Search Committee, University of Louis-
ville, Louisville, KY 40292.
The University of Louisville is an Equal Opportunity
A d affirmative Action Employer.

BIOCHEMISTRY FACULTY POSITION
UNIVERSITY OF WISCONSIN-MADISON

The Biochemistry Department, University of Wiscon-
sin-Madison invites applications for a tenure-track posi-
tion at the assistant professor level. We are particularly
interested in applications from individuals whose re-
search emphasizes chemical approaches to fundamental
problems in biochemistry or molecular biology. Potential
areas include enzymology, biogeneric chemistry, the chemistry of
proteins, nucleic acids, complex carbohydrates,
and of low molecular weight components. The success-
ful candidate is expected to develop a vigorous independent
research program and participate in the teaching programs of
the department. Applications, including curriculum vitae, list
of publications, summary of past work and accomplish-
ments, and statement of research interests, should be sent to: Professor William S. Reznikoff,
Chairman, Department of Biochemistry, University of Wisconsin-Madison, 420 Henry Mall, Madison,
Wisconsin 53706. Applications will be considered until

DARTMOUTH COLLEGE
BIOTECHNOLOGY AND
BIOCHEMICAL ENGINEERING

Nominations and applications for a junior or senior
faculty position are invited. Applicants
should have a doctorate in engineering or closely
related discipline. Special consideration will be given to
candidates specializing in production and/or separation of
biologically-produced high-value compounds, and to
those who have progressed along with interactions with
other groups at Dartmouth such as the Molecular Genet-
cics Center, Medical School, Biochemistry Program,
and the Biology Department. The successful candidate
will be expected to develop a major research program in
their area and teach graduate and undergraduate courses. The
School is undergoing a significant expansion in faculty
and facilities. In the area of biotechnology and biochemical
engineering, several new laboratories will be constructed in

Applications should include a resume and concise de-
scription of research interests, and should arrange for three
letters of reference to be sent to: Professor Charles S. Converse, Dean, Dartmouth College, Hanover,
NH 03755. Review of applications will begin in January 1988. Dartmouth College is an Equal
Opportunity/Affirmative Action Employer.

Positions for TWO BIOCHEMISTS Ph.D.'s (assist-
ant/associate professor) with background in molecular
biology, biochemistry, and/or recombinant DNA technol-
y and differentiation. Send curriculum vitae to: Box 1178,
Mount Sinai Medical Center, One Gustave L. Levy
Place, New York, NY 10029-5574. An Equal Opportunity
Employer.

BIOPHYSICS FELLOWSHIP
UNIVERSITY OF ILLINOIS AT CHICAGO

Applications are invited for a two-year fellowship in
biophysics at the University of Illinois at Chicago. The
successful candidate will be expected to develop a gener-
ally funded research program, to participate actively in the
UIUC Biophysics Program, and to work closely with the
principal investigator. Review of applications will begin in
January 1988. University of Illinois is an Equal
Opportunity/Affirmative Action Employer.

BIOPHYSICS POSTDOCTORAL FELLOWSHIP
UNIVERSITY OF MINNESOTA

Applications are invited for a postdoctoral fellowship in
biophysics to begin in October 1988. The successful
candidate will be expected to develop an externally funded
research program, to participate actively in the University
of Minnesota Biophysics Program, and to work closely with
the principal investigator. Review of applications will begin in
January 1988. University of Minnesota is an Equal
Opportunity/Affirmative Action Employer.

BIOCHEMISTRY POSTDOCTORAL FELLOWSHIP
UNIVERSITY OF MICHIGAN

Applications are invited for a postdoctoral fellowship in
biochemistry to begin in October 1988. The successful
candidate will be expected to develop an externally funded
research program, to participate actively in the University
of Michigan Biophysics Program, and to work closely with
the principal investigator. Review of applications will begin in
January 1988. University of Michigan is an Equal
Opportunity/Affirmative Action Employer.

BIOPHYSICS FELLOWSHIP
UNIVERSITY OF WASHINGTON

Applications are invited for a two-year postdoctoral fel-
lowship in biophysics to begin in October 1988. The
successful candidate will be expected to develop an externally
funded research program, to participate actively in the
University of Washington Biophysics Program, and to
work closely with the principal investigator. Review of appli-
cations will begin in January 1988. University of Wash-
ington is an Equal Opportunity/Affirmative Action Em-
ployer.

BIOPHYSICS POSTDOCTORAL FELLOWSHIP
UNIVERSITY OF WISCONSIN-MADISON

Applications are invited for a postdoctoral fellowship in
biophysics to begin in October 1988. The successful
candidate will be expected to develop an externally funded
research program, to participate actively in the University
of Wisconsin-Madison Biophysics Program, and to
work closely with the principal investigator. Review of appli-
cations will begin in January 1988. University of Wiscon-
sin-Madison is an Equal Opportunity/Affirmative Action
Employer.

BIOCHEMISTRY POSTDOCTORAL FELLOWSHIP
UNIVERSITY OF WISCONSIN-MADISON

Applications are invited for a postdoctoral fellowship in
biochemistry to begin in October 1988. The successful
candidate will be expected to develop an externally funded
research program, to participate actively in the University
of Wisconsin-Madison Biophysics Program, and to
work closely with the principal investigator. Review of appli-
cations will begin in January 1988. University of Wiscon-
sin-Madison is an Equal Opportunity/Affirmative Action
Employer.

COMPUTATIONAL BIOCHEMISTRY FELLOWSHIP
UNIVERSITY OF WISCONSIN-MADISON

Applications are invited for a postdoctoral fellowship in
computational biochemistry to begin in October 1988. The
successful candidate will be expected to develop an externally
funded research program, to participate actively in the
University of Wisconsin-Madison Biophysics Program, and to
work closely with the principal investigator. Review of appli-
cations will begin in January 1988. University of Wiscon-
sin-Madison is an Equal Opportunity/Affirmative Action
Employer.

Molecular Biology FELLOWSHIP
UNIVERSITY OF WASHINGTON

Applications are invited for a postdoctoral fellowship in
molecular biology to begin in October 1988. The
successful candidate will be expected to develop an externally
funded research program, to participate actively in the Univer-
sity of Washington Molecular Biology Program, and to
work closely with the principal investigator. Review of appli-
cations will begin in January 1988. University of Wash-
ingston is an Equal Opportunity/Affirmative Action Em-
ployer.

BIOPHYSICS POSTDOCTORAL FELLOWSHIP
UNIVERSITY OF WISCONSIN-MADISON

Applications are invited for a postdoctoral fellowship in
biophysics to begin in October 1988. The successful
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sin-Madison is an Equal Opportunity/Affirmative Action
Employer.
POSITIONS OPEN

CELL BIOLOGIST
YALE UNIVERSITY SCHOOL OF MEDICINE

The Department of Cell Biology, Yale University School of Medicine, is accepting applications for tenure-track positions at the assistant or associate professorial levels with a starting date no later than 1 July 1988. Candidates with an interest in regulation of cell growth and differentiation; interactions between the extracellular matrix membranes and the cytoskeleton; application of video microscopy to living cells; and cell biologic aspects of glycogen metabolism are encouraged to apply. However, applications from investigators in all areas of cell biology will be welcomed. It is anticipated that successful candidates will establish independent externally funded research programs and be willing to collaborate with other members of the Department whose research interests focus on membrane structure and function. Involvement in teaching of cell biology to medical and graduate students and supervision of graduate students is required. Candidates must hold the degree of M.D. and/or Ph.D. and have at least 2 years of postdoctoral experience.

Applicants should submit their curriculum vitae, statement of research and teaching interests, and names of three references before 1 January 1988 to:

Dr. James D. Jamieson, Chairman
Department of Cell Biology
Yale University School of Medicine
333 Cedar Street
New Haven, CT 06510

Yale University is an Equal Opportunity/Affirmative Action Employer.

CYTOGENETICIST

The Department of Botany and Plant Sciences, University of California, Riverside, announces a position of cyto geneticist, available 1 July 1988. The position is a tenure-track, 11-month appointment in the College of Natural and Agricultural Sciences and in the Agricultural Experiment Station. Appointment will be at the assistant, associate, or full professor level, depending on the experience of the successful candidate. A Ph.D. is required and postdoctoral experience is preferred. The appointee will be expected to develop a vigorous, innovative independent research program in basic cytogenetics with applications to plant breeding. Research goals and objectives must be consistent with those of the Agricultural Experiment Station. Potential research areas may include, but are not limited to, molecular biology of plant transposable elements, molecular structure of plant chromosomes, or molecular mechanisms of recombination. One goal might be the application of new molecular technologies to tree crops. The successful candidate will be expected to contribute to the departmental graduate program and to offer an upper division/graduate course in plant cytogenetics. He/she must be willing to serve as major professor to graduate students and to participate in the graduate program.

Send relevant information including curriculum vitae, and arrange to have at least three confidential letters of recommendation sent to: Dr. J. G. Wales, Chairman, Search Committee, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521. Application deadline is 10 December 1987, or later if a suitable candidate has not been selected.

The University of California, Riverside is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

CIRCADIAN BIOLOGY
UNIVERSITY OF VIRGINIA

The Department of Biology at the University of Virginia is forming a research group to investigate basic mechanisms of biological rhythmicity. FACULTY PO

POSITIONS at the junior or senior level are now available. We seek applicants with research interests in circadian rhythmicity as well as expertise in a contemporary biological field such as neurobiology, molecular genetics, biochemistry, cell biology, or physiology. Successful applicants will combine outstanding research accomplishments or potential with ability to contribute to the intellectual life of a department dedicated to the highest level of undergraduate and graduate education. Please send curriculum vitae, including a description of research plans and three letters of reference by 1 February 1988 to: Michael Menaker, Chairman, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, VA 22901. Equal Opportunity/Affirmative Action Employer.

Pfizer Central Research is seeking an innovative scientist to direct and expand our in-vitro radioligand binding assay group. This individual will be responsible for maintaining a peptide receptor binding laboratory, developing novel assays to a high throughput level, and doing appropriate biochemical and pharmacologic follow-up of lead compounds. Candidates will work closely with synthetic organic chemists to optimize new leads, as well as computer experts in the development of methods to manage both assay automation and a growing database.

A Ph.D. in biochemistry or biochemical pharmacology, appropriate postdoctoral training, and a record of research accomplishments are required. Expertise in the characterization of receptor-mediated biochemical events and/or laboratory automation are especially desirable. Previous industrial experience is welcome but not essential.

This position offers an excellent opportunity for professional recognition. We also offer a competitive compensation and benefit package, and the opportunity to live in an attractive Connecticut shore community. Please send resume and description of accomplishments to: Mr. Don Nelson, Manager of Employee Resources, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

Research Opportunity in Biochemical Pharmacology

Pfizer

An equal opportunity employer

METABOLISM and PHARMACOKINETICS

Our client, a major U.S. corporation engaged in frontier pharmaceutical research and development for the treatment of cancer, cardiovascular and infectious diseases, seeks senior scientists to join multi-disciplinary drug development teams.

PHARMACOKINETIST

Responsibilities: Design and initiate clinical and non-clinical studies for pharmacokinetics, bioavailability and drug metabolism assessments. Evaluate and summarize pharmacokinetic/pharmacodynamic data and prepare reports for regulatory submissions.

Required: Ph.D. in Pharmaceutical Sciences or related disciplines with 2 or more years experience in pharmacokinetics.

BIOCHEMICAL PHARMACOLOGIST

Responsibilities: Develop bioanalytical methods to quantitate drugs and their metabolites in biological fluids and tissues; design/implment studies for pharmacokinetics and metabolic behavior of drug candidate molecules.

Required: Ph.D. biochemistry, pharmacology or related discipline. Experience in in vivo and in vitro metabolism studies, and analytical chemistry, i.e., HPLC, GC, and radio isotope methodology.

RESEARCH SCIENTISTS

Responsibilities: Develop analytical methods for drugs in biological fluids and tissues; perform in vivo and in vitro studies for pharmacokinetics and metabolic properties.

Required: B.S. chemistry, pharmacology or related discipline; 2-5 years research experience with HPLC, GC, and radio isotope methodology.

Located near Philadelphia, our client offers a superior quality of living, and generously acknowledges professional expectations.

Respond in confidence, with assurance of discretion to: Robert R. Columbus

WETTERINGS & AGNEW
Professional Placement Consultants
1200 Midtown Tower, Rochester, NY 14604 716/454-3888

13 NOVEMBER 1987
UNIVERSITY OF IDAHO  
DEPARTMENTAL CHAIR—CHEMISTRY  

The Department of Chemistry is seeking a dynamic leader for the position of Department Chair. The person selected will be expected to lead the Department in developing internationally recognized research programs, maintain research excellence in the department, maintain overall responsibility for departmental budgets, communicate effectively with the University administration and encourage interaction and research collaboration with other departments. The successful candidate will be responsible for the continuing development of a Department of 17 faculty. The Department has an aggressive initiative to enhance undergraduate and graduate teaching, and has recently obtained a wide range of modern research instrumentation.  

The appointment will carry rank of professor and salary commensurate with qualifications. Interested persons of nomination or application should send to: Roger A. Korus, Chair of Search Committee, Department of Chemistry, University of Idaho, Moscow, ID 83843.

DIRECTOR OF OCCUPATIONAL MEDICINE  
THE JOHNS HOPKINS UNIVERSITY  
SCHOOL OF PUBLIC AND  
PUBLIC HEALTH  

Leading national research and training programs in occupational medicine, occupational health nursing, and related occupational health disciplines awarding master’s and doctoral degrees and with fundable opportunities for postdoctoral fellows and medical residents. Integrated with environmental, public health and medical schools departments at the Johns Hopkins clinical centers, and industrial and governmental agencies with active patient care and consultative programs in the workplace and community settings. A talented, multicultural faculty and a full complement of graduate students, medical residents, and research fellows engaged in laboratory, clinical, and field investigations offers a challenge to an academic and professional team up and a central role in a first rank institution of health professions. Inquiries including curriculum vitae should be directed to: Dr. Susan Greene, Chair of Search Committee, Department of Environmental Health Sciences, School of Hygiene and Public Health, The Johns Hopkins University, 615 North Wolfe Street, Baltimore, MD 21205. Equal Opportunity/Affirmative Action Employer.

ECOLOGICAL MICROBIOLOGIST—Applications are invited from individuals with a Ph.D. in microbiology, or the equivalent, for a tenure-track assistant professor position to begin fall 1988. The successful candidate is expected to teach undergraduate and graduate courses in addition to establishing a fundable research program. Submit curriculum vitae, a brief statement of research, teaching interests, and names, addresses, and telephone numbers of at least three references before 11 December 1987 to: Dr. Cecilie R. Barrera, Search Committee, Department of Biology, New Mexico State University, Las Cruces, NM 88003; telephone: 505-646-4430. New Mexico State University is an Affirmative Action/Equal Opportunity Institution.

EVOLUTIONARY ZOOLOGIST—Tenure-track assistant professor, to begin fall 1988. Candidates should have a Ph.D. in evolutionary biology or zoology. A record of scholarly accomplishments sufficient to be appointed at Cornell with tenure at the rank of professor or associate professor. Position will be available 1 July 1988, and is a 9-month position. Salary competitive. Send letter of application, curriculum vitae, reprints, and names, addresses, and references of three knowledgeable individuals. Send letter of application, curriculum vitae, reprints, and names, addresses, and telephone numbers of three references to: Dr. Jerry A. Averill, Department of Biology, Cornell University, Ithaca, NY 14853.

DEAN OF BIOLOGICAL SCIENCES, SUNY, Stony Brook: Three research-oriented departments (biochemistry, microbiology and cell biology, and molecular biology) and five interdisciplinary graduate programs in the life sciences seek an imaginative new leader. Opportunities exist for interaction among basic and applied research programs in a large on-campus Health Sciences Center. The ideal candidate would have a distinguished research reputation and experience in collaborative science and technology. Please send curriculum vitae and the names of three references to: Chair, Biological Sciences Dean Search Committee, Room 138, Life Sciences Building, SUNY, Stony Brook, NY 11794 by 15 December 1987. SUNY Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer. AK #255-C.

DEVELOPMENTAL OR CELL BIOLOGIST  
UNIVERSITY OF MICHIGAN  

The Department of Anatomy and Cell Biology invites applications for a tenure-track position at the assistant or associate professor level. Candidates for this position should have a strong research program in the areas of developmental or cell biology. Expected responsibilities include teaching at the undergraduate and graduate levels and developing research programs in the area of cell biology. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT CHAIR: The Department of Biological Sciences at the University of Maryland Baltimore County (UMBC). The UMBC Department of Biological Sciences is seeking a distinguished scientist to serve as Professor and Chair. The Department includes 28 faculty members with 400 undergraduate majors and 90 graduate students. The research interests of the faculty range from molecular and cellular biology to organismal and population biology. The Department offers the B.A., B.S., and Ph.D. degrees in biological sciences and applied molecular biology. The University of Maryland Baltimore County is located in the Baltimore, Maryland area and has a current enrollment of 10,000 students. Please send curriculum vitae, and names and addresses of at least three references to: Dr. Catherine Pensak, Chairman, Search Committee, UMBC, Baltimore, MD 21228. UMBC is an Affirmative Action/Equal Opportunity Employer. Women and minority are encouraged to apply. Applications will be received and reviewed until a suitable candidate is found.

CORNELL UNIVERSITY GENEVA CAMPUS  
DEPARTMENT CHAIR OF  
FOOD SCIENCE AND TECHNOLOGY  

Chair is sought for world-recognized department, total staff of 60, current faculty of 16. A number of vacancies await the filling of this position. Applicants must be able to show potential to bring a record of scholarly accomplishments sufficient to be appointed at Cornell with tenure at the rank of associate professor. Position will be available 1 July 1988, and is a 9-month position. Salary competitive. Send letter of application, curriculum vitae, reprints, and names, addresses of three references to: Dr. Terry Acree, Department of Food Science and Technology, New York State Agricultural Experiment Station, F.P. Box 642, Geneva, NY 14456; telephone: 315-787-2240. Cornell University is an Equal Opportunity/Affirmative Action Employer.

JOHNS HOPKINS UNIVERSITY  
SCHOOL OF MEDICINE  

The Department of Molecular Biology and Neurosciences invites applications for positions at the Associate Professor level. Applicants should have strong research programs in molecular biology. The Department is located on the Johns Hopkins Medical campus in Baltimore, Maryland. This is an Equal Opportunity, Affirmative Action Employer.

UNIVERSITY OF MINNESOTA  
DEPARTMENT OF PLANT AND  
WATER RESOURCES  

The University of Minnesota College of Agriculture is seeking to appoint an experienced individual to the position of Associate Professor in the Department of Plant and Water Resources. The position will be tenured and the individual will be expected to have a strong research program and to teach in the graduate and undergraduate curriculum. Applications should be sent to: Dr. K. Mousley, Chairman of Search Committee, Department of Plant and Water Resources, University of Minnesota, St. Paul, MN 55108.

UNIVERSITY OF MICHIGAN  
DEPARTMENT OF BOTANY  

The Department of Botany is seeking a faculty member to teach introductory courses and to develop an undergraduate research laboratory. Application materials are requested from individuals interested in this position. Send applications to: Dr. A. J. Wolfe, Chairman, Search Committee, Department of Botany, University of Michigan, Ann Arbor, MI 48109.

UNIVERSITY OF MICHIGAN  
DEPARTMENT OF BIOLOGY  

The University of Michigan offers a position at the senior level in developmental biology. Applicants should have demonstrated research productivity in this field. The position will be available 1 July 1988. Applications should be submitted by 15 December 1987 to: Dr. Robert L. Horvitz, Chairman, Search Committee, Department of Biological Sciences, University of Michigan, Ann Arbor, MI 48109.
SALES OPPORTUNITIES

IBI, a leading supplier of Molecular Biology Products has immediate openings in the Sales Department both in-house and field. As an in-house Telephone Sales Representative, you will provide technical support for the outside sales force as well as maintain your own accounts. The successful candidate should be well versed in recombinant DNA techniques with a minimum one year lab experience, no sales experience is necessary. Field positions require at least 2 years of sales experience in the biotechnology area. If you are ready for a change and want a career with an industry leader, send your resume to:

Telephone Sales Director
IBI
25 Science Park
P.O. Box 9558
New Haven, CT 06535

SALES OPPORTUNITIES

The Upjohn Company, a world leader in the research and development of pharmaceuticals, has an Associate position available in the Metabolic Diseases Research Group to study cell growth regulation, growth factors and growth factor receptors. Applicants should have an M.S. degree or B.S. degree with minimum of 2 years of relevant laboratory experience in the area of cell culture, study of cell growth factors, lymphokines, protein purification and ligand-receptor binding and/or DNA/RNA hybridization techniques.

We are located in Kalamazoo in Southwestern Michigan, midway between Chicago and Detroit, offering varied cultural events, cosmopolitan shopping and entertainment. Lakes and woodlands minutes away. abundant year-round sports and recreation. Upjohn offers advancement opportunities, a highly competitive salary, comprehensive benefits and relocation assistance. For confidential consideration, please call from outside of Michigan toll free 1/800/253-6690, ext. 3-6767, (inside Michigan call collect 616/323-6767) to request an employment application be sent to you immediately. Please refer to position number 22079-A when calling. We are an Equal Opportunity Employer M/F.

Upjohn
Our Commitment to Scientific Excellence Continues...

SALES OPPORTUNITIES

Experimental Pathologist

The Department of Cell Biology at Smith Kline & French Laboratories, located in suburban Philadelphia, PA, has an immediate opening for a Ph.D. to join a research team investigating novel differentiating agents in the treatment of colorectal cancer.

The successful candidate will have broad responsibility for designing studies analyzing the differentiation of colorectal carcinoma cells in vitro, in animal models and in biopsy material from human neoplasms. Experience in tumor pathology and demonstrated expertise in immunohistochemistry are essential.

Candidates are required to have a Ph.D. in Cell Biology or Experimental Pathology with a minimum of 2 years relevant experience in differentiation or tumor cell biology. A good publication record and communication skills are also required.

We offer an excellent compensation and benefits package as well as an attractive relocation policy. Publication of results is encouraged and supported. For confidential consideration, send your curriculum vitae and the names of three references to Robert F. Obet, Manager, Personnel Relations, R0107, Smith Kline & French Laboratories, Research and Development Division, P. O. Box 1539, King of Prussia, PA 19406-0539. We are an Equal Opportunity Employer, M/F/H/V.

Regulatory Toxicologist

The Agricultural Research Division of American Cyanamid Company has a need for a Regulatory Toxicologist to design, monitor and review the full range of toxicity testing performed in-house and on contract for EPA and FDA registrations of pesticides and animal drugs.

Requires a Ph.D. in Toxicology or related medical field and at least 3 years of experience in toxicology in industry, government or contract laboratory dealing with pesticides or drugs.

American Cyanamid offers a competitive compensation and benefits package. For prompt and confidential consideration, please forward your resume and salary requirements to the Employment Office.

American Cyanamid Company
Agricultural Research Division
P.O. Box 400
Princeton, NJ 08540
An Equal Opportunity Employer M/F/H/V.

Cell Biology Research

The Upjohn Company, a world leader in the research and development of pharmaceuticals, has an Associate position available in the Metabolic Diseases Research Group to study cell growth regulation, growth factors and growth factor receptors. Applicants should have an M.S. degree or B.S. degree with minimum of 2 years of relevant laboratory experience in the area of cell culture, study of cell growth factors, lymphokines, protein purification and ligand-receptor binding and/or DNA/RNA hybridization techniques.

We are located in Kalamazoo in Southwestern Michigan, midway between Chicago and Detroit, offering varied cultural events, cosmopolitan shopping and entertainment. Lakes and woodlands minutes away, abundant year-round sports and recreation. Upjohn offers advancement opportunities, a highly competitive salary, comprehensive benefits and relocation assistance. For confidential consideration, please call from outside of Michigan toll free 1/800/253-6690, ext. 3-6767, (inside Michigan call collect 616/323-6767) to request an employment application be sent to you immediately. Please refer to position number 22079-A when calling. We are an Equal Opportunity Employer M/F.

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American Cyanamid Company
Agricultural Research Division
P.O. Box 400
Princeton, NJ 08540
An Equal Opportunity Employer M/F/H/V.
The University of Kentucky in Lexington is the principal degree granting and research institution of the Commonwealth of Kentucky. The Sanders-Brown Center on Aging at the University of Kentucky is responsible for a University-wide program in research, teaching and service in aging. The Sanders-Brown Center on Aging and the Alzheimer Disease Research Center, a national Geriatric Education Center, and a participant in the Synaptic Hypothesis in the Elderly Program, in recognition of these achievements and others to be named later, the Commonwealth of Kentucky has awarded an endowed chair to the Center.

The University is pleased to announce a national search to identify a qualified applicant for the chair. This is a senior faculty level position. Applicants should have a Ph.D. and/or M.D. The individual must have demonstrated excellence in research related to diseases affecting the nervous system of the older person. This individual shall be the leader of a program of research, teaching and service in the area of stroke, or of molecular neurobiology, particularly as it applies to Alzheimer disease.

A letter of application, together with curriculum vitae, and names and addresses of three referees should be sent to:

Michael P. McQuillen, M.D.
Chairman Committee on Aging
Commonwealth Chair on Aging
MS 129, University of Kentucky
Lexington Center
800 Rose Street
Lexington, KY 40536-0084

ENVIRONMENTAL POLICY: The School of Public Health and the College of Medicine will fill two positions: a tenure-track ASSISTANT PROFESSOR and a RESEARCH ASSOCIATE, both related to Neurotoxicology. Experience in public policy formulation desirable; Ph.D. in environmental toxins or another relevant discipline required for teaching position. For assured consideration, apply by 1 December 1987 to: Allen Schuck, Committee Chair, School of Public Affairs

Morrell Hall, University of Maryland, College Park, MD 20742. Equal Opportunity/Affirmative Action Employer.

EVOLUTIONARY GENETICIST

Tenure-track assistant professor position for evolutionary geneticist with demonstrated excellence in experimental (field or laboratory) research to join faculty in ecology and evolutionary biology program. Candidates must have a doctorate, potential for excellence in undergraduate teaching, ability to develop an independently funded research program, and potential to interact productively with faculty in the Graduate Program in Ecology and Evolutionary Biology. Experience in molecular biology, development of laboratory curriculum is desirable. Possibilities exist in areas of population genetics, paleontology, animal behavior and neurobiology. There are many opportunities for interactions with faculty in other programs at Brown who are working in these fields and in applied mathematics. We encourage applicants working on plant, animal, or microbial systems. Responsibilities include a course in evolutionary genetics or evolutionary mechanisms, contributions to courses in basic genetics, and academic advising. Applicants should submit a résumé, including research and teaching experience, research plans, and a list of publications; endorse representative reprints; and have three letters of reference sent, all to be received by 4 January 1988 to: Dr. D. H. Morron, Department of Biology and Medicine, Brown University, Providence, RI 02912. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

REPRODUCTIVE BIOLOGY

Opening available at ASSISTANT/ASSOCIATE PROFESSOR level in reproduction, embryonic development, and related discipline. Seeking motivated individual with demonstrated excellence and productivity in research. Should have Ph.D. or M.D. in reproductive biology or related field. Post-doctoral fellowship in endocrinology and embryo culture, IVF and cryopreservation. Responsibilities 50% clinical/50% research. Send detailed résumé, references, and statement of research background and interests to: Dr. A. G. Sacco, Wayne State University, Department OB/GYN, C. S. Mott Center, 275 East Hancock, Detroit, MI 48201. Wayne State is an Equal Opportunity/Affirmative Action Employer.

POSSESSIONS OPEN

UNIVERSITY OF MARYLAND BALTIMORE COUNTY

MD

FACULTY POSITION

DEPARTMENT OF CHEMICAL ENGINEERING

UNIVERSITY OF MARYLAND BALTIMORE COUNTY

MEDICAL CENTER MARYLAND BIOTECHNOLOGY INSTITUTE

Applications for a faculty position in biotechnology with a particular expertise in the area of mammalian cell culture and tissue culture, the appointment will be at the level of Tenured Associate Professor. The successful candidate will be expected to establish an independent research program and to have demonstrated excellence in research and teaching. Applicants should send a letter of application, a curriculum vitae, a description of research interests, and names of three references to: Dr. T. C. Madian, Search Committee, Chemical Engineering Program, University of Maryland, Baltimore County, MD 21228.

Jefferson Institute of Molecular Medicine—FACULTY POSITIONS IN MOLECULAR BIOLOGY AND RELATED AREAS—The Jefferson Institute of Molecular Medicine of Thomas Jefferson University is seeking an additional 6 scientists to complete its complement of 18 basic scientists and 10 tenure-track. Candidates will be selected primarily on the basis of their potential to establish outstanding research programs in molecular biology, molecular genetics, biochemistry and related areas. The candidates will be provided with competitive salaries, membership in a graduate program, newly renovated laboratory space, start-up equipment grants and some continuing support for their research programs. Send curriculum vitae and three letters of recommendation to: Dr. Darwin J. Perkins, Department of Molecular Medicine, Thomas Jefferson University, 11th and Walnut Streets, Philadelphia, PA 19107. Equal Opportunity Employer.

FACULTY POSITIONS

MOLECULAR BIOPHYSICS AND BIOCHEMISTRY

YALE UNIVERSITY

The Department of Molecular Biophysics and Biochemistry at Yale University seeks applicants for two tenure-track positions at the level of assistant professor in the general area of molecular genetics. Qualified applicants would be expected to develop an independent research program and to participate in departmental teaching at both the graduate and undergraduate levels. Candidates should submit curriculum vitae with a summary of research plans, and three letters of recommendation to: Dr. Alan M. Weiner, Department of Molecular Biophysics and Biochemistry, PO. Box 3333, 333 Cedar Street, New Haven, CT 06510. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS

1) CELL BIOLOGIST—The Division of Rheumatology and Immunology at the Medical University of South Carolina is accepting applications from cell biologists for a full-time tenured/tenure-track academic position within the Division. The individual must have either a Ph.D. or M.D. degree and experience in cell biology and cellular function and interactions in vitro. The successful candidate will be expected to establish an independent research program and to be open to interactions with other Division researchers.

2) MOLECULAR BIOLOGIST—The Division of Rheumatology and Immunology at the Medical University of South Carolina is accepting applications from molecular biologists for a full-time tenured/tenure-track academic position within the Division. The individual must have either a Ph.D. or M.D. degree and experience in molecular biology and gene regulation of cell function. The successful candidate will be expected to establish an independent research program and to be open to interactions with other Division researchers. Candidates should submit a letter of application, a curriculum vitae, a description of research interests, and names of three references to: E. Carville LeRoy, M.D., Division of Rheumatology and Immunology, Department of Medicine, 171 Ashley Avenue, Charleston, SC 29425. An Equal Opportunity/Affirmative Action Employer.

SETON HALL UNIVERSITY

FACULTY (TENURE-TRACK) POSITION

ORGANIC CHEMISTRY

Seton Hall University, Chemistry Department anticipates a tenure-track position beginning September 1988. This position is for organic chemistry, at the assistant professor level (but higher rank will be considered). The individual should complement the research areas of our faculty. Minimum qualifications include Ph.D. and Ph.D. programs. Demonstrated research excellence and a commitment to teaching at the graduate and undergraduate levels are required.

Applications should include letter of reference, and a brief description of future research plans on or before 1 December 1987 to:

Faculty Search Committee
Department of Chemistry
Seton Hall University
400 South Orange Avenue
South Orange, NJ 07079
Equal Opportunity/Affirmative Action Employer

FACULTY POSITIONS

MOLECULAR NEUROBIOLOGY

Applications and nominations of individuals with active research programs in molecular neurobiology are requested for faculty positions at the FULL, ASSOCIATE, or ASSISTANT PROFESSOR level. Rank and salary will be based on academic and research record. Substantial start-up funds and modern laboratory space are available. Excellent opportunities exist for interaction with the actively funded research activities associated with the Hospital and University. Qualified candidates must have completed M.D., Ph.D., or equivalent terminal degree and have 2 years of postdoctoral training. Applicants should send curriculum vitae, a description of research activities, representative reprints, and the names of three or more references to:

Dr. Peter Gettings
Department of Physiology and Biophysics
The University of Iowa
Iowa City, IA 52242.

FLORIDA INTERNATIONAL UNIVERSITY

THE STATE UNIVERSITY OF FLORIDA AT MIAMI

HYDROGEOLOGIST/AQUIFERS TECHNICIAN

The Department of Geology at Florida International University invites applications for a full-time tenure-earning position at the assistant professor level in hydrogeology/aquifer geochemistry. The successful candidate will be expected to teach both graduate and undergraduate levels, and must demonstrate an ability to conduct high quality teaching, and the potential to establish a vigorous research program. A completed Ph.D. is required. The department is well-equipped, and includes an ARL Microscope, ICPS, x-ray diffraction, and other equipment. Qualified candidates may begin employment in August 1987. Appointment will begin in January 1988. Send a brief resume, brief description of teaching and research interests, letters of recommendation, and a curriculum vitae to Dr. Florentin Maurice, Department of Geology, Florida International University, University Park, Miami, FL 33199. Florida International University is an Equal Opportunity/Affirmative Action Employer.
POSTITIONS OPEN

GENETICS AND DEVELOPMENTAL BIOLOGY: The Biology Department seeks candidates for 1-year, nonrenewable appointment September 1988, to teach core courses in genetics and development, as well as participate in a team-taught introductory biology course. Send curriculum vitae, statement of research activity, and three letters of recommendation to: Professor John L. Howland, Department of Biology, Bowdoin College, Brunswick, ME 04011 by 14 December 1987. Bowdoin College is committed to Equal Opportunity through Affirmative Action.

IMMUNOLOGIST

Ph.D. with at least 2 years of research experience and demonstrated research capability. Position with research team pursuing work in lymphokines and monoclonal antibodies. Send curriculum vitae to: Amaullah Khan, M.D., Ph.D., Chairman, Department of Immunotherapy, Wadley Institutes of Molecular Medicine, 9000 Harry Hines, Dallas, TX 75235. Chance for clinical interaction.

IMMUNOLOGIST, PROTEIN CHEMIST, MOLECULAR BIOLOGIST: The Michigan Department of Public Health Laboratory (MDPH) has openings for each of the above in the Division of Biologic Products. The positions require a Ph.D. or equivalent degree. The salary range for these positions is from $31,921 to $43,639. The entry salary level depends on training and experience. The MDPH is an Equal Opportunity Employer. Interested individuals should contact: Mr. John Trotter, Michigan Department of Public Health, BLS, 3500 North Logan Street, P.O. Box 30035, Lansing, MI 48909.

MAGNETIC RESONANCE IMAGING (MRI) SPECIALIST

The Fox Chase Cancer Center, a nationally known comprehensive cancer center, is seeking a highly qualified MRI Specialist to work in the department of Truman Brown, Ph.D. Candidates for this position should possess a Ph.D. in physics, chemistry, electrical engineering, or related field, and have an understanding of MRI and NMR theory, as well as experience with hardware, software and programming. The individual selected for this position will be responsible for developing and extending the imaging methodology on the department's 2T Magnetron Clinical Imager, the initiation and implementation of experimental imaging sequences on the department's 2.3T Biospec and 9.4T AE4000, and in a broader sense, they will have responsibility for developing and expanding the imaging research program both in terms of technique and application within the overall goals of the NMR Department. For consideration, please send curriculum vitae along with references to:

Professor of Personnel
Fox Chase Cancer Center
7701 Burholme Avenue
Philadelphia, PA 19111

Equal Opportunity Employer

MANAGER, VIROLOGY

Leading animal vaccine manufacturer has an excellent opportunity for an individual with a Ph.D. in veterinary virology plus 5 years of experience or M.S. in virology with 8 to 10 years of experience as well as demonstrated managerial ability. Duties include designing, scheduling, coordinating, supervising, and participating in development of new animal virus vaccines. The candidate should be experienced in animal virology, immunology and cell culture techniques, and have knowledge of molecular virology. To apply, send resume, including salary requirements to:

Director of Human Resources
Boehringer Ingelheim
Animal Health, Inc.
P.O. Box 999
St. Joseph, MO 64501

Equal Opportunity Employer

MATHEMATICAL STATISTICIAN

Laboratory in medical school seeks mathematical statistician to develop mathematical techniques for analysis of brain electrical activity. Candidate should have background in statistical analysis of time series. Please send curriculum vitae to: Box 153, SCIENCE.
MARINE RESEARCH ASSOCIATE I

Position beginning 1 December 1987 to join a re-
search team using a combination of laboratory, large-
scale modeling and field experiments to understand the
ecology of biomass and nutrient cycling. Experience
in ecosystem modeling and statistical analysis is de-
sirable. Send application to Dr. George Lamont, 618-439-8424.

The U.S. Department of Agriculture, Agricultural
Research Service, is seeking applicants for this posi-
tion. For position information, contact: Dr. George Lamont on 618-239-4244. For
information on application procedures/forms, contact: Marcie Carr on 301-344-2756. Applications in response
to this advertisement should be marked NRDN. Applications must be received no later than 15 December 1987.

Molecular Biology/Genetics—Tenure-
track assistant professor position anticipated in an ex-
panding life science program. Applications are sought from individuals working on eukaryotic systems at the molecular level; the specific research area is flexible. Successful applicants will have demonstrated potential through postdoctoral experience and recent publications, and are expected to maintain a vigorous research program through extramural funding and to participate in the education of graduate and undergraduate students. Applicants should send curriculum vitae and a statement of research goals, and arrange to have three or four recommendation letters submitted.

The position requires a Ph.D. in molecular biology or a related field and 3 years of experience in NMR techniques. The appointee will participate in a multidisciplinary research program in involving departments of biology, chemistry, computer science, and agricultural sciences. The position carries with it an equivalent salary or postdoctoral slot, technician, and graduate student support. Send curriculum vitae, and names of three references to: Dr. Chien Hsio, Pittsburgh NMR Center for Biomedical Research, Carnegie Mellon University, 440 Fifth Avenue, Pittsburgh, PA 15213. CMU and Pitt are Affirmative Action/Equal Opportunity Employers.

ONCOLOGY—BASIC RESEARCH, PRINCI-
PAL SCIENTIST POSITION in a new non-profit basic research institute in small animal models. Experience as assistant professor or higher and expertise in molecular genetic approaches (e.g., blotting, cloning) desired. Applicant will manage laboratory and supervisory personnel and carry out research in the area of small animal oncology. Send curriculum vitae and statement of research goals to: Dr. Joseph Rogers, Director, Institute for Bioener-
genetics Research, 13220 North 105th Avenue, P.O. Box 1278, Sun City, AZ 85372.

RAPIDLY EXPANDING NEW JERSEY Pharmaceuti-
cal Company has two challenging positions in pharmacoiogy and regulatory affairs. Send.

PHARMACEUTICS/MAJORING DIRECTOR
Take charge seasoned individual to oversee develop-
ment and manufacturing of oral and parenteral NCEs. Experience with GLPs and GMPs a must. High-level
Administrative experience essential.

DRUG REGULATORY AFFAIRS DIRECTOR
A senior scientist with "hands on" technical and administrative experience in regulatory affairs to head our product registration group. IND/NDA, and foreign equivalents, ANDA, FDA negotiation experi-
ence essential.

These are exciting growth positions with enormous ups possible excellent fringe benefits. Send curricu-
num vitae and salary history in confidence to: Box 154, SCIENCE.
TENURE-TRACK FACULTY POSITION IN MARINE SCIENCE

The University of Alaska-Fairbanks, Institute of Marine Science, is seeking applicants for a tenure-track faculty position in the general area of fisheries oceanography. The appointment will be with the Institute of Marine Science in the School of Fisheries and Ocean Sciences and will involve research and graduate-level instruction and supervision. The Institute of Marine Science has a dynamic group of 23 faculty from various disciplines and about 35 graduate students. It is involved in a variety of research activities in arctic and sub-arctic seas. Many of these are multi-disciplinary and we wish to fill the position with a person committed to collaborative work with ongoing and future programs.

We are seeking a person who will develop a program addressing the effects of oceanographic processes and variability on ecosystems and fish and shellfish stocks. Some specific areas of interest may include high latitude research, larval fish or shellfish ecology as related to oceanography, numerical modeling, fish and shellfish population dynamics, and biometry. Experience in the application of remote sensing to fisheries oceanography is desirable. However, outstanding applicants in related areas will also be considered.

Candidates must possess a Ph.D. in an appropriate discipline. We expect to fill this position at the Assistant Professor level, although a more senior appointment may be possible depending on the applicant’s credentials.

Applications must be received by January 15, 1988.

Applicants should send a statement of interest, a curriculum vitae and the names and addresses of three references to:

Dr. Howard M. Foder, Chairman
Search Committee
c/o Director’s Office
Institute of Marine Science
University of Alaska-Fairbanks
Fairbanks, AK 99775-1060

The University of Alaska is an E/OAA Employer and Educational Institution. Your application for employment with the U of A may be subject to public disclosure if you are selected as a finalist.

IVEENT

A Ph.D level position is available for a creative research scientist within Du Pont's Central Research and Development Department. You will investigate molecular mechanisms of protein secretion in gram positive bacteria and develop improved systems for production of foreign proteins. To qualify you should have postdoctoral training and research experience in molecular biology, microbial genetics and recombinant DNA technology, as well as demonstrated capability for innovative independent research.

You'll find a highly stimulating scientific environment in a modern research facility located near Wilmington, DE. We provide excellent compensation and benefits including relocation. Our Mid-Atlantic location offers an attractive lifestyle with easy access to a wide range of academic, cultural and recreational activities. Interested candidates should send their resumes with salary requirements and references to: Dr. Ethel N. Jackson, c/o Employee Relations Department, Room X50937, Du Pont Company, Wilmington, DE 19898.

PULMONARY BIOLOGY - TOXICOLOGY PROGRAM

The Life Sciences Division of the Los Alamos National Laboratory is seeking postdoctoral researchers in the Pulmonary Biology - Toxicology Program. Ongoing research conducted in this program includes: isolation and characterization of pulmonary interstitial cell subpopulations; the development of advanced multiparameter flow cytometric techniques for analyzing cell structure and function; elucidation of cell-cell dialogues involved in cell recruitment and other interactions during the development and progression of pulmonary diseases; delineation of lung defense mechanisms; investigation of the potentiation of expression of lung injury by exercise following the inhalation of toxic agents. Individuals with a strong background in pulmonary cell biology and/or exercise physiology are encouraged to apply.

Applicants should have received their doctoral degree within the past three years. Postdoctoral appointments are for one year, renewable for a second year. The salary range is $32,820 - $34,580 per year.

Interested candidates should send a curriculum vitae to Dr. Bruce E. Lehnert, Life Sciences Division, Los Alamos National Laboratory, Mail Stop M882, Los Alamos, New Mexico 87545; (505) 667-2753.

To formally apply, send resume, employment application, three letters of reference, and graduate and undergraduate transcripts to Carol M. Rich, Human Resources Development Division, POSTDOC-AJ, Los Alamos National Laboratory, Los Alamos, New Mexico 87545.

Affirmative Action/Equal Opportunity Employer

University of California

LOS ALAMOS
Space Station Project Scientist and Advanced Science Planner (e.g., Lunar Base or Mars Missions) (Two Positions)

Major responsibilities include planning, coordinating, and directing the development of science objectives and requirements in medicine, biology, and chemistry for advanced manned and unmanned space missions and projects. Represents mission science activities in all interactions with engineering and flight management personnel. Coordinates the generation of strawman science payloads and the specification of space requirements for major hardware items. Acts as liaison with scientific investigators for all stages from mission planning and advocacy to experiment development and flight. Two positions are available, one focusing on Space Station (Announcement 28-87) and the other on advanced space missions, such as lunar and Mars missions (Announcement 27-87). Applicants must have an advanced degree in a life sciences discipline, research experience, and experience in program management and mission planning. Salary: $45,763-$69,976.

For further information phone Jack Cormode at (415) 694-5605 or Sharon Scharmen at (415) 694-6768, or write to the address below. Technical inquiries should be directed to Dr. John Billingham, Chief, Life Science Division, at (415) 694-5181. Applications should be filed by November 30, 1987. Positions located at Ames Research Center near the Silicon Valley.

An equal employment opportunity/affirmative action employer.

NASA-Ames Research Center
Attn: AHM 241-32
Moffett Field, CA 94035

SENIOR TOXICOLOGIST

Hoechst Celanese, Inc., a Fortune 100 company, has an exceptional opportunity for a Senior Toxicologist in its Corporate Department of Environmental, Health and Safety Affairs.

The position will provide Toxicological consultation and guidance to the business units and advise senior management on toxicology issues. The incumbent will participate in risk assessment on environmental and product safety issues. The position will also assist in developing and publishing toxicology information in support of marketing strategies and serve as a resource for the business units’ safety, industrial hygiene and environmental functions.

This position requires 5 or more years experience in industrial toxicology and a PhD degree (DVM, Pharmacology, Biochemistry).

We offer a competitive salary with a comprehensive fully paid benefits package. Please send your resume with salary history, to: Manager, Staffing, Human Resources Department, Hoechst Celanese Corporation, Routes 202-206 North, Somerville, NJ 08876.

Hoechst Celanese
POSTDOCTORAL ASSOCIATE: NIH-funded project to examine morphological correlates of neuronal and glial responses to cranial nerve stimulation. Investigators will use light and electron microscopy to characterize neuroanatomical and functional outcomes. Experience in brain imaging and computational neuroscience is desirable. Applications due January 1, 1989.

POSTDOCTORAL FELLOW: Biophysical chemistry, with interest in the structure and function of transmembrane proteins. The project will involve the development of new methods for the characterization of these proteins. The position is available immediately. Experience in membrane biology and membrane models is essential. Applications should be sent to: Dr. J. Smith, Department of Physiology, University of California, San Francisco, CA 94143.

THE UNIVERSITY OF CALIFORNIA POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY AND GENETICS. The position is available immediately. The successful candidate will be expected to work on projects related to the regulation of gene expression. Experience in molecular biology and genetic analysis is required. Applications should be sent to: Dr. W. Johnson, Department of Biochemistry, University of California, Berkeley, CA 94720.

POSTDOCTORAL POSITION IN IMMUNODEFICIENCY. The project will involve the study of the immune system and its response to infection. Experience in immunology and virology is required. Applications should be sent to: Dr. M. Brown, Department of Microbiology, University of California, Los Angeles, CA 90024.

POSTDOCTORAL POSITION IN NEUROLOGY. The project will involve the study of the effects of drugs on the central nervous system. Experience in pharmacology and neurophysiology is required. Applications should be sent to: Dr. L. Taylor, Department of Neurology, University of California, San Francisco, CA 94143.

POSTDOCTORAL POSITION IN BIOCHEMISTRY/ MOLECULAR BIOLOGY. The project will involve the study of the structure and function of proteins. Experience in protein chemistry and structural biology is required. Applications should be sent to: Dr. S. Davis, Department of Biochemistry, University of California, Los Angeles, CA 90024.

POSTDOCTORAL POSITION IN MICROBIOLOGY. The project will involve the study of bacterial metabolism and adaptation to environmental stress. Experience in molecular biology and microbial physiology is required. Applications should be sent to: Dr. J. Smith, Department of Microbiology, University of California, Los Angeles, CA 90024.

POSTDOCTORAL POSITIONS IN IMMUNOBIOLOGY. The project will involve the study of the immune response to infection. Experience in immunology and virology is required. Applications should be sent to: Dr. M. Brown, Department of Microbiology, University of California, Los Angeles, CA 90024.

POSTDOCTORAL POSITION IN GENETICS. The project will involve the study of the genetics of disease. Experience in human genetics and molecular biology is required. Applications should be sent to: Dr. S. Davis, Department of Biochemistry, University of California, Los Angeles, CA 90024.

POSTDOCTORAL POSITION IN NEUROPHYSIOLOGY. The project will involve the study of the electrical activity of neurons. Experience in electrophysiology and computational neuroscience is required. Applications should be sent to: Dr. J. Smith, Department of Neurology, University of California, Los Angeles, CA 90024.

POSTDOCTORAL POSITION IN BIOCHEMISTRY. The project will involve the study of the biochemical pathways of cell metabolism. Experience in biochemistry and molecular biology is required. Applications should be sent to: Dr. S. Davis, Department of Biochemistry, University of California, Los Angeles, CA 90024.

POSTDOCTORAL POSITION IN INFECTION AND IMMUNITY. The project will involve the study of the immune response to infection. Experience in immunology and virology is required. Applications should be sent to: Dr. M. Brown, Department of Microbiology, University of California, Los Angeles, CA 90024.
VANDERBILT UNIVERSITY

Director, Free Electron Laser Center for Biomedical and Materials Research

Vanderbilt University invites applications for the position of Director, Free Electron Laser Center for Biomedical and Materials Research. The Center is a broadly based interdisciplinary collaboration including researchers from physics, molecular biology, the clinical and biomedical sciences, and materials science. The Center is funded for the construction of a broadly tunable, ultra-short-pulse FEL, and for research on thermal and non-thermal interactions of laser light with matter. The Director will be expected to lead the construction, operation and future development of the free-electron laser; to carry out a vigorous program of research either in FEL physics/engineering or in the scientific fields represented in the Center's program; to develop long-range external funding for the operation of the FEL Center; and to fulfill appropriate academic duties of teaching, supervision of graduate students and university service. The appointment is a regular faculty position with rank, salary and home department all to be determined by the experience and interest of the successful candidate. The selection criteria to be applied in evaluating candidates include: overall scientific excellence; experience in the construction, operation and development of free-electron lasers, storage ring radiation sources, large laser systems, or accelerators; demonstrated ability to attract significant funding for research; and demonstrated ability to manage major experimental research projects. The deadline for applications is January 15, 1988; the University desires to fill the position no later than the fall semester, 1988. Interested persons should send a curriculum vitae, including the names of at least four references, to:

Professor Norman H. Tolle, Chair
FEL Director Search Committee
Department of Physics and Astronomy
Vanderbilt University, Nashville, TN 37235
(615) 322-6438

VANDERBILT UNIVERSITY IS AN EQUAL OPPORTUNITY, AFFIRMATIVE ACTION EMPLOYER

DNA Probe Diagnostics

ImClone Systems, an innovative, rapidly growing biotechnology company located in New York City, is seeking highly motivated individuals for the development of its proprietary DNA probe technology.

Minimum requirements are a doctorate degree and demonstrated productivity in either cloning or nucleic acid chemistry and detection. Relevant industrial experience would be an advantage.

ImClone offers a challenging, multi-disciplinary environment for scientists who can assume both individual and team responsibility, as well as excellent salary and benefits.

Send CV to: John Landes, ImClone Systems, 180 Varick St., New York, New York 10014.

ImClone Systems Incorporated

DIRECTOR

Physical Science Laboratory of New Mexico State University

Physical Science Laboratory (PSL) of New Mexico State University (NMSU) is an R&D organization contracting to Government and industry through its strong engineering, service, and science programs, several of which are world class. Located at the base of the Rio Grande Research Corridor, PSL is strongly positioned with excellent capabilities and a substantial contract base in: Atmospheric Sciences, Electronic Defense, Engineering Services, Scientific Balloon Research and Telemetry.

We invite applications and nominations for the position of Director for a laboratory of about 700 people and $34 million annual contract funding.

We seek an energetic, innovative leader who desires new challenges and can demonstrate the following qualifications:

• PhD in engineering or a physical science
• Ten years of directly relevant experience, including five years in senior management
• Broad general knowledge of science and technology relevant to Laboratory operations
• Strong abilities for developing programs and attaining contracts to sustain Laboratory growth
• Excellent leadership abilities and communication skills

The ideal candidate will have demonstrated technical and management leadership and initiative in successful performance under relevant Government contract requirements.

Offer of employment is contingent upon verification of the candidate's eligibility for employment in the United States.

DEADLINE: 15 December 1987

For more information on qualifications and responsibilities, contact:

Dr. Harold A. Daw
Chairman, Search Committee
Attn: Dept. 70
Box 3004
New Mexico State University
Las Cruces, NM 88003-3004 / (505) 646-2022

SENIO TOXICOLOGISTS

Diversity, expertise, technology and an environment for professional success. These are the hallmarks of the MITRE Corporation. For over 25 years MITRE has specialized in the design, development, and delivery of superior systems engineering solutions to meet the most technically demanding requirements of our U.S. Government clients.

We are seeking senior toxicologists in our McLean, VA office who wish to apply their knowledge and expertise, in a non-laboratory environment, to address technical problems and issues related to the regulation and control of exposure to toxic substances. The work will include a variety of assignments such as:

• Critical review and evaluation of toxicology studies.
• Analysis and interpretation of data and findings.
• Utilization of structure activity relationships and structural analogs to predict toxicity.
• Development and application of models for extrapolating toxic doses across species and routes of exposure.

Successful candidates will hold a Ph.D. degree in toxicology or a basic medical science, and will have a minimum of five years of academic or industrial experience in studying the toxic effects of chemicals. Broad expertise in general toxicology is essential and specialization in a subspecialty of toxicology (such as carcinogenesis, neurotoxicology, metabolism, or inhalation toxicology) is highly desirable. Successful candidates will enjoy preparing technical reports and will have outstanding written communications skills.

Molecular Biologists

Baxter Healthcare Corporation, MicroScan Division, develops and manufactures computer controlled electronic instrumentation and disposables used in the clinical laboratory. Research involves systems dealing with rapid identification and susceptibility testing.

Our growth requires the addition of several individuals knowledgeable in gene probe technology. Qualified individuals will be familiar with one or more of a variety of techniques including probe preparation, cloning, nucleic acid chemistry and infection assay development.

We are seeking individuals with a Ph.D., MS or BS degree. Educational background should be in Microbiology, Molecular Biology, Chemistry or a related field with required exposure to probe technology.

Baxter Healthcare Corporation, MicroScan Division, is a leader in the healthcare industry and we offer excellent salaries and benefits to the individuals who qualify for our positions. If you feel that you have the skills we need, send your resume, stating current salary, to: Vice President of Human Resources, Baxter Healthcare Corporation, MicroScan Division, 1584 Enterprise Blvd., West Sacramento, California 95691. We are an equal opportunity employer.

MicroScan Division

Baxter

In the current Biotechnology field, a strong commitment to research and development is essential. At Pitman-Moore, a wholly-owned subsidiary of the International Minerals and Chemicals Corporation (IMC), we’re dedicated to becoming the leading animal health and nutrition company in the world and are directing our resources toward the R & D that we feel is so essential. Currently, we are seeking the following people to further these efforts:

RESEARCH SCIENTIST

As part of a multidisciplinary team, this position is involved in the discovery and development of animal products. Candidates must have a PhD in Biochemistry, Physiology, or a closely related field with a strong interest and experience in Endocrinology. A minimum of 3-5 years post-doctoral experience is required, although an established professional is preferred. Experience in animal research is desirable. Strong leadership and communication skills are essential.

RESEARCH ASSISTANTS

The successful candidates will be the major research assistants involved in assessing the structure and mechanism of action in protein/peptide hormones and their derivatives. A BS in Biochemistry or Biological Sciences plus a minimum of 3-5 years post-graduate experience required. Candidates with a BS in Chemistry with appropriate experience and interests may also be acceptable. Candidates must be versatile and resourceful, with good communication and mathematical skills.

Be a part of the growth of a major research effort. Send your resume, including references and salary history to George Hyland, Pitman Moore, Inc., 821 E. Hawley St., Mundeine, IL 60060.

Equal Opportunity Employer M/F/H/V

Evidence of work authorization required
U.S. ENVIRONMENTAL PROTECTION AGENCY'S 1988 VISITING SCIENTISTS PROGRAM

The Environmental Protection Agency's (EPA) Office of Research and Development is seeking scientists and engineers to participate in the Agency's 1988 Visiting Scientists Program in the following areas:

Air and Energy Engineering Environmental Research
- Control technology for volatile organic compounds and hazardous air pollutants
- Synthesis, property determination and application testing of possible chemical substitutes for CFCs-11, 12 and 113
- X-ray crystallographic studies of solid-gas sorbent materials

Hazardous Waste Engineering Research
- Enhanced indigenous microbial degradation for biological treatment of hazardous waste leachates
- Stabilization/solidification processes for reduction of toxicity and leachability of hazardous wastes

Environmental Research
- Marine aquatic toxicology and ecology, including physiological effects at the cellular and subcellular levels
- Application of molecular genetic techniques to assess the ecological risk of releasing genetically engineered microorganisms into the environment
- Ecological effects of acidic deposition, airborne pollutants, global climate change, and reduction of stratospheric ozone
- Ecological effects of genetically engineered organisms
- Effects of toxic chemicals on local wildlife populations

Atmospheric Sciences Research
- Transport and transformation of air pollutants with particular emphasis on global climate modeling, photochemical modeling, or heterogeneous atmospheric processes

Water Engineering Research
- Toxics biodegradation in wastewater
- Drinking water microbiology and treatment processes
- Risk management for toxins and asbestos

Environmental Monitoring
- Biomarkers and biochemical methods for human and environmental exposure assessment
- Advanced instrumentation for analysis of environmental and biological samples
- Remote sensing/geographic information systems (GIS) for wetlands and ecosystems monitoring

Environmental Criteria and Assessment
- Pharmacokinetic models for placental transfer of and fetal biodistribution of environmental toxicants
- Neuroendocrine mechanisms affected by environmental toxicants and their role in the mediation of toxic effects on fetal neonatal, and later development
- Dose-response relationships or mechanisms by which lead, cadmium and other metals interact with and affect cardiovascular and renal systems function
- Biological monitoring of external exposures or biokinetics of internal distribution or metabolism of nickel, arsenic, chromium or other metals
- Species-dependent effects of metals or metalloids with regard to differential induction
- Effects of ozone, sulfur oxides, nitrogen oxides, or aerosols on human or animal respiratory systems
- Comparative risk assessment of alternate technologies for waste disposal
- Immunotoxic endpoints as the critical effect for estimating reference doses of environmental pollutants

Assignments, which will be at an EPA laboratory, may be on a full or part-time basis and from one to three years in duration. The deadline for application receipt is February 26, 1988.

For submission requirements and other information, write to:

Roger Cortesi, Director
Office of Exploratory Research, RD-675
ATTN: 1988 Visiting Scientists Program
U.S. Environmental Protection Agency
401 M Street, S.W. Room NE312
Washington, D.C. 20460

EPA is an equal opportunity employer

Research
Assistants/Associates
Molecular Biology

Genentech, Inc., a leader in the field of biotechnology, has several openings in molecular biology.

Biochemistry/Protein Purification — Successful candidate will be responsible for the development of RIAs and ELISAs in support of ongoing research products. Candidate will also have extensive experience in radiiodination, gel chromatography, affinity chromatography, enzyme conjugation and antibody production and characterization. A BS or MS in Biochemistry or related field with 3-5 years' direct experience in developing, maintaining, and troubleshooting immunoassays is required. Comfortable with using computer interface equipment an added plus.

Molecular Biology — Creative and productive individual to work as part of a protein design team on projects relating to cardiovascular disease. Primary tasks would involve site-directed mutagenesis, random mutagenesis, and vector construction. Prior molecular biology experience a necessity. Familiarity with and interest in protein chemistry and structure highly desirable.

Molecular Biology — Responsibilities include performing various experiments related to DNA sequence determination and technology improvement. Successful candidate will possess a BS (6-8 years’ experience) or MS (4 years’ experience) in Biochemistry, Molecular Biology or equivalent.

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Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. Please send your resume to Sherrie Wilkins, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.
POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITION—BIOCHEMISTRY

The research is aimed at identifying, isolating, and characterizing potential regulators of protein kinases. Work in well-equipped laboratories at the Forestry Sciences Laboratory in Delaware, Ohio. Available immediately. Send curriculum vitae and the names of three references to: An Equal Opportunity Employer. Reply: Dr. M. Chang, Forestry Sciences Laboratory, 359 Main Road, Delaware, OH 43015. Telephone: 614-369-4476 or 4471.

POSTDOCTORAL POSITIONS IN DEVELOPMENTAL BIOLOGY

The research is focused on understanding the role of cell-cell interactions in the functional communication in segmentation in the Drosophila and mouse embryos. These studies will be accompanied by the use of transgenic transmission of the above and hybridization analysis. Experience in microinjection, fluorescence microscopy, and/or in situ hybridization helpful. Please submit resume and reference letters to: Dr. C. L. Roberts, Department of Genetics, University of Pennsylvania, Philadelphia, PA 19104.

A POSTDOCTORAL POSITION IN PLANT MOLECULAR BIOLOGY

A postdoctoral position is available immediately to study alterations in gene expression mediated by maize transporters. Send curriculum vitae, which includes the list of publications, and a brief statement of research interests and the main contributions to be expected from the position. The position is available immediately. Send curriculum vitae and the names of three references to: Dr. Kirk R. Hoffmann, Department of Genetics, University of Wisconsin, Madison, WI 53706.

POSTDOCTORAL POSITIONS AVAILABLE IMMINENTLY

Applications are available for postdoctoral positions in the laboratories of Dr. R. A. Smith and Dr. J. R. Whaley. The positions are expected to begin within the next six months. Send curriculum vitae and the names of three references to: Dr. R. A. Smith, Department of Biochemistry, University of Wisconsin, Madison, WI 53706.

POSTDOCTORAL POSITIONS IN PLANT MOLECULAR BIOLOGY

A postdoctoral position is available immediately to study alterations in gene expression mediated by maize transporters. Send curriculum vitae, which includes the list of publications, and a brief statement of research interests and the main contributions to be expected from the position. The position is available immediately. Send curriculum vitae and the names of three references to: Dr. Kirk R. Hoffmann, Department of Genetics, University of Wisconsin, Madison, WI 53706.

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DEPUTY DIRECTOR

The Smithsonian Tropical Research Institute (STRI) invites applications and nominations for the position of Deputy Director which falls vacant due to the appointment of Dr. James R. Karr as the Bailey Professor of Biology at Virginia Polytechnic Institute. STRI, located on the isthmus of Panama, is a bureau of the Smithsonian Institution. The Institute is devoted to basic research throughout the world’s tropics and is responsible for custodianship of a biological reserve, the Barro Colorado Nature Monument, and for the operation of a number of other facilities on the isthmus for the support of terrestrial and marine tropical research.

The Deputy Director reports to the Institute’s Director and is responsible for assisting the Director with the development of policies and the management of the Institute. The Institute’s principal responsibilities are to promote research and education in the fields of ecology, evolution, behavior, anthropology and paleontology.

Candidates should possess a Ph.D., be engaged in independent research in a field related to STRI’s broad interests, and have experience appropriate to the effective management of an international research mission in a complex administrative environment. Knowledge of the Spanish language would be useful.

Applications should consist of a letter of interest, curriculum vitae, and names and telephone numbers of three references. Nominations with supporting statements are also welcomed. Replies should be submitted before January 1 to:

SEARCH COMMITTEE (DEPUTY DIRECTOR)
Smithsonian Tropical Research Institute
APO Miami 34002-0011.

The salary range for this position is $53,830-$72,500. In addition, allowances for housing and overseas living are paid. The starting date for this appointment is no later than 1 September 1988. STRI is an Equal Opportunity Employer and appointments can be made without regard for nationality.

TENURE-TRACK FACULTY

The University of Alaska-Fairbanks, Institute of Marine Science is seeking applicants for a tenure-track faculty position in the general area of pelagic primary production/ nutrient dynamics. The appointment will be with the Institute of Marine Science in the School of Fisheries and Ocean Sciences and will involve research and graduate-level instruction and supervision. The Institute of Marine Science has a dynamic group of 22 faculty from various disciplines and about 35 graduate students. It is involved in a variety of research activities in arctic and sub-arctic areas. Many of these are multi-disciplinary and we wish to fill the position with a person committed to collaborative work with ongoing and future programs.

We seek a person who will bring modern experimental and process-oriented approaches to problems in any of the following or related areas:

- Phytoplankton physiology
- Adaptation to low light levels
- Trace organics as photosynthetic collectors
- Modern approaches to measuring primary production
- Role of planktonic organisms in pelagic carbon fixation and remineralization
- Use of recombinant DNA techniques
- Immunochemical probes and biochemical measure of rate

Candidates must possess a Ph.D. in an appropriate discipline. We expect to fill this position at the Assistant Professor level, although a more senior appointment may be possible depending on the applicant’s credentials.

Applications must be received by January 15, 1988.

Applicants should send a statement of interest, a curriculum vitae and the names and addresses of three references to:

Dr. William Reeburg, Chairman
Search Committee
The University of Alaska-Fairbanks
Institute of Marine Science
College of Natural Science
Fairbanks, AK 99775-1090

The University of Alaska is an EO/AA Employer and Educational Institution. Your application for employment with the U of A may be subject to a public disclosure if you are selected as a finalist.
WOODS HOLE OCEANOGRAPHIC INSTITUTE
POSTDOCTORAL FELLOWSHIPS

Ocean Science and Engineering

Applications are invited from new or recent doctorates in science or engineering with interests in physical oceanography, marine chemistry, marine geology and geophysics, biological oceanography, or oceanographic engineering. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise.

Marine Policy and Ocean Management

Research fellowships are offered to individuals in the social sciences, law, the humanities, or natural sciences to apply their training to problems or issues that involve the use of the oceans. Presently research fellows are active in areas such as Marine Science and Public Policy; Ocean Jurisdictions, Law of the Sea, and International Relations; Development and Management of Ocean Resources; and Oceanwide Planning and Management. Emphasis is placed on the economics of ocean space and on the role of science in governmental and industrial decision making. Topics of special current interest include marine biological diversity, the quality of marine habitats and marine reserves, and the impacts of sea-level change. Other research interests are also appropriate.

Fellowships are awarded for one year with a stipend of $26,000 plus group health insurance and a modest research budget. Recipients are encouraged to pursue their own research interests independently or in association with resident staff. Completed applications must be received by January 15, 1988 for 1988-89 awards. Awards will be announced in March. Write for application forms to: Dean of Graduate Studies, P.O. Box S, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts 02543

Equal Opportunity/Affirmative Action Institution

Laboratory Assistant
Fermentation R&D Department

Pfizer Central Research has an immediate opening for a laboratory assistant in its Fermentation R&D Department. You will contribute to the elucidation of biochemical pathways for a wide variety of fermentation products, including antibiotics. Typical duties will include mutation/selection of organisms, enzyme isolation and manipulation of biochemical pathways to improve production.

Applicants should possess a BS or MS in Biochemistry, Microbiology or related field.

In addition to a stimulating scientific environment, we also offer competitive compensation, benefit package and the opportunity to live in an attractive Connecticut shore community. Please send resume and description of research accomplishments to: Lorraine C. Corr, Personnel/Associate, Pfizer Central Research, Eastern Point Road, Groton, Connecticut 06340.

An equal opportunity employer

FACULTY POSITION
IN PHARMACOLOGY
ST. JOHN’S UNIVERSITY
COLLEGE OF PHARMACY AND ALLIED HEALTH PROFESSIONS

Applications are invited for a tenure-track position at the assistant or associate professor level in the area of pharmacology. Rank and salary are commensurate with the applicant’s qualifications and experience. This position is for the academic year with the opportunity for summer employment.

Persons applying should possess a Ph.D. in pharmacology or a related field. An undergraduate degree from an accredited college of pharmacy is desirable. Primary responsibilities include teaching undergraduate and graduate courses in pharmacology and directing an active research program in an area of specialization.

Applicants should provide an updated curriculum vitae including teaching and research interests and a list of three references. Applications should be sent to Dr. Amrit L. Kapoor, Chairman, Department of Pharmaceutical Sciences, College of Pharmacy and Allied Health Professions, St. John’s University, Jamaica, NY 11439.

St. John’s University is an Equal Opportunity/Affirmative Action Employer (M/F)

When it comes to diagnostics research and product development, Abbott Laboratories is consistently at the forefront. We’ve led the way in developing tests for the detection of Rubella, Hepatitis B, German Measles, and most recently, AIDS. Now, backed by the strength of a $4 billion corporation recognized for superior management, our Diagnostics Division offers the following opportunities:

MS/PH.D. CELL BIOLOGIST

Qualified candidates will have experience in retrovirology, and a familiarity with cell-typing, human lymphocytes culture, and in handling human pathogens such as HIV, HTLV, EBV, HPV and HBV. Interest in molecular biological aspects desirable but not essential.

MS/PH.D. BIOCHEMIST

Candidates must have experience in protein purification/characterization with knowledge either in peptide synthesis or protein sequencing. Experience in purification of proteins from natural sources and recombinant DNA derived protein is desirable.

Abbott is headquartered in an attractive suburban area just 30 miles north of Chicago. We offer excellent salaries and a benefits package that includes profit sharing and retirement plan. Send your resume with salary history in confidence to: Peggy Taylor, Corporate Placement, Dept. SCI/11-13. Abbott is an Affirmative Action Employer.

Abbott Park, IL 60064
"HEALTH CARE WORLDWIDE"

Pfizer

An equal opportunity employer
RESEARCH POSITIONS

**Exercise Physiologist**
Studies the effects of exercise on human physiology in space flight. Examines the way in which different patterns and intensities of exercise can protect against the deconditioning seen in cardiovascular, musculoskeletal, and other body systems in space flight. Carries out extensive human studies in simulated weightlessness (e.g., in bedrest) and proposes flight experiments for future manned missions. Develops and tests concepts for new exercise devices for flight use. Applicants must have an advanced degree in physiology or medicine with a minimum of three years of independent research experience in human physiology, with emphasis on exercise physiology.
Salary: $45,763-$69,976. (Announcement 22-87).

**Muscle Biochemist**
Conducts basic and applied research into the changes taking place in human and/or animal skeletal muscle in space flight. Focuses on metabolism, energetics, and pharmacology of muscle atrophy in weightlessness and on the effects of different types and intensities of exercise and other countermeasures in preventing such changes. Is expected to propose and act as principal investigator for experiments on muscle biochemistry in space flight. Applicants must have an advanced degree in the life sciences with a minimum of one year of research experience in muscle biochemistry.

**Developmental Biologist**
Investigator to assume leadership role in space developmental biology program. Conducts basic research on the effects of gravity on developmental processes in animals, and focuses on the effects of exposure to microgravity environments in space. Particular attention is paid to systems known to be sensitive to gravity, such as the musculoskeletal and vestibular. Applicants are expected to propose and carry out developmental biology experiments in space flight. Applicants must have an advanced degree in biology and at least three years of independent research experience in developmental biology.

**Neuroscientist**
Conducts research to identify neurochemical, anatomical, physiological, or behavioral mechanisms involved in the adaptation of the nervous system to space, particularly to microgravity and rotating environments. Applicants will be expected to propose and carry out ground-based research and flight experiments. Experience with both animal models and human subjects is desirable. Applicants must have an advanced degree in the life sciences or medicine, with a background in anatomy, physiology, neurochemistry, or behavioral science, and at least three years of independent research experience.

**Controlled Environment Plant Physiologist**
Investigator to conduct a research program directed toward increasing the productivity of higher plants grown in controlled environment life support systems intended for use in the space environment. Conducts basic research on efficiency in food production and defining the genetic, physiological, and environmental conditions appropriate for the growth of plants in space. Interacts collaboratively with members of the scientific community and is involved in the development of plant growth systems for use in space flight experiments. Applicants must have an advanced degree in plant physiology or allied sciences, a minimum of three years independent research experience, and a record of contributions to the field.

For further information phone Jack Cormode at (415) 694-5605 or Sharon Scharmen at (415) 694-6768, or write to the address below. Technical inquiries should be directed to Dr. John Billingham, Chief, Life Science Division, at (415) 694-5181. Applications should be filed by November 30, 1987. Positions located at Ames Research Center near the Silicon Valley.

An equal employment opportunity/affirmative action employer.

**NASA**
National Aeronautics and Space Administration
Ames Research Center
Moffett Field, California 94035

NASA- Ames Research Center
Attn: AHM 241-32
Moffett Field, CA 94035

13 NOVEMBER 1987

**PERSONNEL PLACEMENT** 1005
POSTDOCTORAL RESEARCH ASSOCIATE
MOLECULAR BIOLOGY

A position is available immediately for an individual with expertise in molecular biology and recombiant DNA technology to work in the area of tissue-specific regulation of apolipoprotein gene expression. Experience in protein biochemistry or cell and molecular biology preferred. Please send résumé and names of three references to:

Nicholas O. Davidson, M.D.
Box 400
Section of Endocrinology
University of Chicago
5841 S. Maryland Avenue
Chicago, IL 60637

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
POSITION for the study of melatonin systems in muscles and cells. Projects include regulation of acrosin hydrolysis, mechanism of kinesin-microtubule ATPase, functions of motile systems in cell division. Experience in protein biochemistry or cell and molecular biology preferred. Send curriculum vitae and names of references to:

Dr. W. Taylor, Department of Molecular Genetics and Cell Biology, The University of Chicago, 925 East 58th Street, Chicago, IL 60637.

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately to study the role of abnormal cortisol metabolism in primary open angle glaucoma. Research will involve the cloning and expression of the human androgen receptor and related corticosteroid-metabolizing enzymes. Preference will be given to applicants with prior experience in recombiant DNA technology, especially experience cloning gene. Send curriculum vitae including names of references to:

Dr. Ira Schwartz, Department of Biochemistry, New York Medical College, Valhalla, NY 10595.

POSTDOCTORAL TRAINING IN CLINICAL CHEMISTRY.

Position available 1 July 1988, for basic scientists interested in pursuing a career in laboratory medicine. The position involves a major responsibility in directing a core laboratory. The core laboratory provides services to the entire hospital system and includes routine and specialized tests. Applicants should have a strong background in clinical chemistry and a desire to pursue a career in laboratory medicine. The successful candidate will be expected to develop a research program. Cooparative opportunities are available in the clinical chemistry research laboratories and a unique research program is available in the department of molecular medicine at the nearby Oregon Health Sciences University, Portland, Oregon. The appointment levels will be contingent on the applicants' qualifications, with advanced levels requiring a position with substantial budget and grant support. Applicants should submit curriculum vitae and four professional references by 15 December 1987 to: William P. McCarthy, M.D., Chair, Search Committee, Oregon Regional Primate Research Center, 305 NW 185th Avenue, Beaverton, OR 97006; telephone: 503-445-1114. The Oregon Regional Primate Research Center is an Equal Opportunity/Affirmative Action Employer.

PRIMATE VIROLOGISTS

The Oregon Regional Primate Research Center has openings for two Ph.D. virologists. The core-funded applicants will work with two pathologists, two immunologists, and a clinical veterinarian studying immunocompromising retroviral infections endemic in several primate species and will be expected to develop active research programs. Joint academic opportunities are available in the Basic Sciences Departments, and the Vollum Institute for Molecular Research at the nearby Oregon Health Sciences University, Portland, Oregon. The appointment levels will be contingent on the applicants' qualifications, with advanced levels requiring a position with substantial budget and grant support. Applicants should submit curriculum vitae and four professional references by 15 December 1987 to: William P. McCarthy, M.D., Chair, Search Committee, Oregon Regional Primate Research Center, 305 NW 185th Avenue, Beaverton, OR 97006; telephone: 503-445-1114. The Oregon Regional Primate Research Center is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

A postdoctoral position is available in the area of cellular and molecular biology in research on female sex differentiation. Studies include molecular biology, biochemical and immunological analyses of developmental and testis autoantigens and their role in female sex differentiation. Please send curriculum vitae and the names of three references to:


RESEARCH ASSOCIATE: Ph.D. in molecular biology or biochemistry with minimum of 5 years of postdoctoral training required for established laboratory in genetic control of protein structure and synthesis. Supervise and execute research program in DNA cloning and sequencing. Train undergraduates, graduates and postdocs. Publications demonstrating proficiency in recombinant DNA techniques, protein chemistry and protein sequencing. Ability to obtain own research funding. Long-term position. Salary commensurate with experience and responsibilities. Women and minorities encouraged to apply. Deadline 15 December 1987. Send curriculum vitae and three letters of reference to:

M. O. Galley, Department of Pathology, CB#7256 University of North Carolina, Chapel Hill (UNC-CH), Chapel Hill, NC 27599. UNC CH is an Equal Opportunity/Affirmative Action Employment Opportunity Employer.

RESEARCH ASSOCIATE: Position open for POSTDOCTORAL FELLOW to study systemic and renal hemodynamics and changes in vasoactive hormones and renal function and altered divergent ion nutrition. This position is for 2 years of support. Salary is negotiable. Closing date 27 November 1987. Submit curriculum vitae to: Edward T. Zawada, Jr., M.D., Professor and Chairman, Department of Medicine, University of South Dakota, School of Medicine, 2501 West 22nd Street, Sioux Falls, SD 57108.

CIT, an innovative leader in toxicology research, seeks a follow the position opening in its Research Triangle Park, North Carolina, facility:

RESEARCH ASSOCIATE

RESEARCH ASSOCIATE

INHALATION TOXICOLOGY SECTION

Selected individual will be responsible for generation and analysis of gas, vapor and aerosolized products and their application using gas chromatography, IR-Ul-VIS spectrophotometry, and wet chemical assays in conjunction with airborne sampling techniques. Experience in statistics and computer-based computer programs would also be beneficial. Requires good mechanical ability and M.S. or B.S. in chemistry or biology with 3 to 5 years of relevant experience.

Reply in confidence to:

Employment Office
Chemical Industry Institute of Toxicology
P.O. Box 12137
Research Triangle Park, NC 27709

An Equal Opportunity/Affirmative Action Employer.

RESEARCHER ENVIRONMENTAL SCIENTIST for central Ohio research and development firm to conduct research studies to solve environmental problems for chemical companies and hazardous waste-generating industries. Involves field sampling and lab measurement, computer interfacing, and computer analysis and modeling. Job requires water quality and waste water studies and assessment of economic impact and application of regulatory policies. Requires B.S. degree in chemical engineering or environmental science, plus 3 years of experience in the job described. In lieu of the 3 years of experience the employer will accept college level coursework in Programming (FORTRAN, BASIC, and SAS), Microcomputer Applications, Data Processing, and one college-level course each in Operations Research, Environmental Statistics and Environmental Analysis and Design. Closing date: 30 November 1987. M. F. 9:00 a.m. to 5:00 p.m. $2100 per month. Qualified applicants only reply immediately with résumé to: M. Rush, JSO #402221, Ohio Business Services, P.O. Box 1618, Columbus, OH 43216. Equal Opportunity Employer.

RESEARCH POSITION

The Department of Neurology at the Massachusetts General Hospital invites application for a research position in Developmental Neurobiology. Applicants will be considered who have demonstrated experience in the study of neuronal systems and the development of rodents. An investigator is being sought with experience in histological and physiological methods requisite to the study of systems development. Candidates with experience in the application of in vitro techniques in the study of cellular processes and cellular interaction will also be considered. The candidate should have either an M.D. or Ph.D. degree. Applicants should include curriculum vitae, names and addresses of three references, and copies of selected publications to:

Dr. Vern S. Caviness, Jr., M.D.
Department of Neurology
Massachusetts General Hospital
Boston, MA 02114

The Massachusetts General Hospital is an Equal Opportunity Employer.
Sr. Scientist
DEVELOPMENTAL TOXICOLOGY

McNeil Pharmaceutical, a Johnson & Johnson Company, is a well established leader in the ethical pharmaceutical field. We currently have an opportunity for an individual to be responsible for planning experiments to test the potential effects of compounds on reproduction and development, and to assess their potential risk in humans.

The ideal candidate will have a PhD in Toxicology or Embryology with industrial experience in teratology/reproductive toxicology. Excellent communication, analytical and organizational skills are required.

We offer a competitive salary, excellent benefits and an environment which fosters your professional growth at our suburban Philadelphia facility. For consideration, please send resume with salary requirements to: Susanne Ford

McNeil
PHARMACEUTICAL
Spring House, PA 19477
A Johnson & Johnson Company
An Equal Opportunity Employer m/f/h/v

RESEARCH OPPORTUNITIES IN
PLANT GENETIC ENGINEERING

The Dow Chemical Company, in Midland, Michigan, is a recognized global leader in the agricultural chemical industry. Expanded research efforts in the area of plant genetic engineering have created an immediate need within the Biotechnology Laboratory in the Central Research Department for qualified researchers in the following areas:

PLANT MOLECULAR BIOLOGY/GENE CLONING

The successful candidate will have a Ph.D. in molecular genetics. Some experience in cDNA cloning, preparation and screening of genomic libraries, eukaryotic expression vectors, and DNA sequencing is preferred. Research efforts will be directed toward introduction of genes into crop plants, with an increasing emphasis on commercially important monocots.

The above candidate must also possess strong communications skills and a desire to carry out independent research while functioning as part of an interdisciplinary research team.

The Dow Chemical Company offers a stimulating work environment and a competitive salary and benefits package.

Send resume to:
Technical Recruiting Department B57
P.O. Box 1655
Midland, MI 48641-1655

The Dow Chemical Company is an Equal Opportunity Employer

PROTEIN BIOCHEMISTS

The Molecular Biology Research Section of Lederle Laboratories is currently seeking Protein Biochemists to pursue basic research focusing on the structure and function of oncogenes, growth factors/cytokines, and viral proteins. Several positions are now available in the Department of Protein Chemistry.

The successful candidates will need a Ph.D., MS/BS or equivalent degree with extensive professional experience in one or more of the following areas: protein purification using modern techniques, protein structural analysis (amino acid analysis, sequencing, NMR, etc.), peptide synthesis, methods development (particularly micromethodology), and membrane proteins. Applicants at the Ph.D. level should have relevant postdoctoral training. Individuals with an active interest in oncogene growth factor and viral protein research are especially encouraged to apply.

Lederle Laboratories is an established leader in pharmaceutical research and is located in Pearl River, NY, approximately 25 miles north of New York City. We offer excellent salaries, benefits including a 401k savings plans and growth potential.

For consideration, please send your resume and the names of three references, to: Maureen Quigley, Professional Employment Representative, Lederle Laboratories, Middletown Road, Pearl River, NY 10965. We are an equal opportunity employer.

Dedicated People
Dedicated to People
Since 1906

Lederle
Clinical Affairs Specialist

Make your move to Baxter Healthcare Corporation, Edwards CC Division. As a major manufacturer of quality critical care and cardiovascular products, we presently have an opportunity available for a Clinical Affairs Specialist.

The selected candidate will be responsible for new product development support and associated regulatory activities, as well as designing, coordinating and monitoring clinical trials and product evaluation.

To qualify, you must possess a BS degree in Biomedical Sciences with 5 years of experience in the medical device industry, an MS degree with 3-5 years of related work experience, or a PhD with 1-3 years of work experience. Knowledge of FDA regulations pertaining to investigational and marketed medical devices and device submissions is required, plus basic experimental design, statistics, and computer skills. Must have relevant clinical research and regulatory experience in a medical device industry or equivalent. A willingness to travel is necessary.

At Baxter, Edwards CC Division, you’ll enjoy an excellent salary and benefits package, quality work environment and the opportunity to advance professionally. Submit your resume with salary history to: Ramon Santiago, Employment Department, Baxter Healthcare Corporation, Edwards CC Division, 17221 Red Hill Avenue, Irvine, California 92714. We are an equal opportunity employer m/f/h.

Edwards CC Division

Baxter

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SALK INSTITUTE FOR BIOLOGICAL STUDIES

PLANT BIOLOGY LABORATORY

Post-Doctoral Fellow and Technical Assistant

The Plant Biology Laboratory has two positions available July 1, 1988: one at the post-doctoral level and one at the B.S./M.S. level, to work on genetic analysis of light-regulated development in Arabidopsis thaliana. Candidates should have a demonstrated ability with molecular genetic techniques, and an interest in combining molecular biology with classical genetic analysis. Send curriculum vitae, a summary of research experience and interests and the names of three references to: Personnel Dept. CL, Salk Institute for Biological Studies, P.O. Box 85800, San Diego, California 92138.

We are an Equal Opportunity Employer M/F/V/H

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Research Opportunities in Cardiovascular Research

Genentech, Inc., a leader in the field of biotechnology, has a major commitment to research of the cardiovascular system. The Department of Cardiovascular Research is about to enter into a rapid growth phase and is looking for scientists who would like to make contributions in the fields of hemostasis, thrombosis, atherosclerosis and vascular cell biology.

VASCULAR CELL BIOLOGY GROUP LEADER: A group investigating endothelial cell physiology will be established. An experienced individual capable of establishing a competitive group to investigate the various roles of endothelial cells in the physiology and pathophysiology of the vascular system is being sought. A successful candidate should have a proven record of innovative and productive research in this area. The position will involve establishment of such a group and interfacing it with the molecular biology, protein chemistry, and pharmacology groups that will be supporting these efforts.

PROTEIN CHEMISTS, MOLECULAR BIOLOGISTS, CELL PHYSIOLOGISTS, AND PHARMACOLOGISTS: The growth of the Cardiovascular Research Department will require the addition of personnel at all levels. Research Assistants and Associates are being sought with experience in the above areas. In addition, positions for individuals with Ph.D.’s and M.D.’s at all levels will be available. Prior experience in the general field of cardiovascular research is desired but not required. In addition, more senior level positions will be opening that will require a background in a related field. These individuals will be expected to establish and lead groups to support the efforts of the department to become a leading force in an area of study.

Genentech, Inc., offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. Please send your curriculum vitae, a summary of your research interests and three letters of reference to: Sherrie V. Wilkins, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.

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The Department of Biology at Memphis State University invites applications for two tenure-track positions at the rank of assistant professor to begin Fall 1988 pending funding approval.

PLANT ECOLOGIST: The successful candidate should have an experimental and field-oriented background in plant ecology and be able to interact with terrestrial and aquatic ecologists. Ph.D. in botany or allied area required. Postdoctoral experience with interests in wetland ecology and/or community dynamics is desirable. Teaching responsibilities may include courses in general biology, botany, and a graduate course in an area of specialty. A strong commitment to teaching and to the development of an externally funded research program is imperative.

ANIMAL CELL PHYSIOLOGIST: An invertebrate or vertebrate cell physiologist working at the cellular level. Applicants must have a Ph.D. Preference will be given to candidates with experience in toxicology, developmental physiology or reproductive biology; however, individuals with other areas of expertise are encouraged to apply. The successful candidate will be expected to participate in introductory courses offered by the Biology Department, teach cell physiology, and develop a successful, extramurally funded graduate research program.

Applicants should submit a curriculum vitae, a statement of research interests and goals, and request three letters of reference be sent to the appropriate committee chairman:

Dr. Lewis B. Coons, Chairman Animal Cell Physiology Committee, phone (901) 454-2034
Dr. Neil A. Miller, Chairman Plant Ecology Search Committee, phone (901) 454-2964

Department of Biology, Memphis State University, Memphis, TN 38152

Applications must be postmarked on or before January 15, 1988.

The successful candidate must meet the Immigration Reform Act criteria. Women and minority applicants are encouraged to apply. Memphis State University is an affirmative action/equal opportunity employer.
PLANT POPULATION BIOLOGIST

The Department of Botany invites applications for a tenure-track Assistant Professor or Associate Professor position, beginning with the 1988–89 academic year (pending budgetary approval). The research interests of the candidate should be in experimental plant population ecology/biology. Teaching responsibilities will include an advanced course in plant population biology. As part of the reorganization of Biological Sciences at Berkeley, it is anticipated that this position will soon be incorporated into a new Department of Integrative Biology.

Applicants should send a curriculum vitae, statement of research and teaching objectives, relevant reprints and manuscripts, and names and addresses of three references to:

Chairman, Population Biology Search Committee
Department of Botany
University of California
Berkeley, CA 94720

CLOSING DATE FOR RECEIPT OF APPLICATIONS: JANUARY 15, 1988

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

BRL
Technical Services

Join Bethesda Research Laboratories’ growing Technical Services Group. This group provides technical support for BRL products through the Tech-Line™ workshops, seminars, Focus, and the applications laboratory. Innovative scientists with good communication skills and experience in molecular biology techniques are sought for the following positions:

**Staff Scientist (Ph.D)**
- Teach DNA – sequencing and recombinant DNA workshops
- Develop new applications in the laboratory
- Present techniques seminars
- Handle technical questions

**Technical Specialist (B.S./M.S.)**
- Handle technical questions
- Develop new applications in the laboratory
- Assist at workshops

These positions offer competitive salary and benefits. Travel is required. Send your resume in confidence to:

Mr. Richard L. Hotaling, Jr., Personnel Manager
GIBCO/BRL Division, Life Technologies, Inc.
8717 Grovemont Circle, Gaithersburg, MD 20877
Attn: Dept. NS11/13 An equal opportunity employer, M/F/H/V

Scientist
Cell/Molecular Biology

Genentech, Inc., has a position available in the Molecular Biology of Cell Surface receptors.

Experienced scientist wanted in the field of expression of heterologous proteins in mammalian cell culture. Candidate will interact within a highly interdisciplinary drug discovery research group emphasizing the use of cell surface receptors.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. Please send resume to:


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POSITIONS OPEN

RESEARCH TECHNICIANS

We are a medical/research center located in northeast Philadelphia with several positions available for research technicians. Responsibilities include tissue culture, research, cell culture, DNA purification, molecular biology, cloning, enzyme purification, and mononuclear antibody therapy. Bachelor's degree in biology, microbiology, or biochemistry is required. Previous experience preferred. Send resume to:

Personnel Department
Research Career Center
7701 Burholme Avenue
Philadelphia, PA 19111
Equal Opportunity Employer

RETINAL CELL BIOLOGIST

The Eye Research Institute of Retina Foundation invites applications for an independent assistant or associate scientist faculty level position. Applicants should have a Ph.D. or equivalent, and an interest in retinal or macular degeneration. Currently funded candidates familiar with photoreceptor/retinal pigment epithelium biology are preferred. Submit cover letter describing research interests, curriculum vitae, and names of three references to:

John Weiler, M.D., Director
Macular Disease Research Center
Eye Research Institute of Retina Foundation
20 Staniford Street
Boston, MA 02114
Equal Opportunity/Affirmative Action Employer M/F/V

EARLY ANNOUNCEMENT

Forestry Science Laboratory located in Delaware, Ohio is participating fully in SCIENCE TIT positions opening in spring/summer 1988. The work is aimed at elucidating the role of growth regulators in insect development. One position is for a biochemist and another for a postdoctoral position characterizing and enzyme kinetics studies. The second position is to work on CdNa cloning, sequencing and expression of regulatory genes. Salary ranges $27,172 to $50,546. Commensurate with experience. U.S. citizen required. Reply to: Dr. M. Chang, Forestry Sciences Laboratory, 385 D.O. Windover, Athens, OH 45701. Telephone: 614-569-4476 or 4471.

SENIOR RESEARCHER IN MENTAL RETARDATION

T.idar, John F. Kennedy Center of Van derbilt University is searching for an established researcher who studies problems related to mental retardation. Applicants should have an active and well-established program in a field of concentrated capacity for scientific leadership. Scientists studying problems relevant to typical development, mental retardation, and/or the aging process are especially encouraged to apply. Applicants selected will be expected to participate in teaching an undergraduate seminar. Applications should include curriculum vitae, a description of the proposed research, and three letters of recommendation. Address inquiries and applications to: Randolph L. Hil, Department of Chemistry, Florida State University, Tallahassee, FL 32306. Equal Opportunity/Affirmative Action Employer M/F/V.

VEGETATIVE PALENTOLOGIST UNIVERSITY OF CALIFORNIA, SANTA BARBARA

The Department of Geological Sciences invites applications for a tenured-track position in vertebrate paleontology for the assistant professor level, effective July 1, 1989. Applicants with research interests in areas including evolutions, paleoecology, paleobiogeography, systematics, and bioecologies are encouraged to apply. Experience in certain areas is also valuable. Primary criteria for a successful applicant include the demonstration of excellence in independent research and teaching. Applicants must have completed graduate and undergraduate education. Ph.D. required by time of appointment. Send a detailed resume, a statement of research interests, and the names of three references by 15 January 1988 to:

Professor Michael Fuller, Chairman
Department of Geological Sciences
University of California, Santa Barbara
Santa Barbara, CA 93106

The University of California, Santa Barbara is an Equal Opportunity/Affirmative Action Employer. Proof of U.S. citizenship or eligibility for U.S. employment will be required prior to employment (Immigration Reform and Control Act of 1986).

SHAW VISITING PROFESSORSHIP IN AQUATIC SCIENCE—1988 TO 1989

The Center for Great Lakes Studies and Department of Biological Sciences, University of Wisconsin—Milwaukee, invite applications for sabbatical support for up to 1 year at the Center. Visitors will present a series of lectures and participate in interdisciplinary research related to biogeochemistry, biogeoengineering, and bioremediation of aquatic metals; microbial ecology; phytoplankton ecology; remote sensing, etc. For information and application, contact: Dr. Kenneth H. Nealson, Shaw Distinguished Professor, Center for Great Lakes Studies, 600 East Galena Place, Milwaukee, WI 53211. Equal Opportunity/Affirmative Action Employer M/F/V.

COURSES

A COURSE ON TISSUE CULTURE IN NEUROBIOLOGY 5 to 13 MAY 1988 UNIVERSITY OF SASKATCHEWAN SASKATOON, SASKATCHEWAN, CANADA

The course will deal with the isolation and culturing of neurons, astrocytes, oligodendrocytes, Schwann cells and established cell lines; biochemistry, physiology and neurobiology of cultured nerve and neuroimmunochemistry of cultured cells; quantification in culture systems including quantification of neuronal cell number and the quantification of storage of cells, contamination and use of antibiotics in cultures. Mornings will be devoted to lectures and examinations of cultures. Afternoon will be for laboratory work, and evenings to demonstrations and discussion.

FACULTY: C. Barnatse (Rockefeller University, New York); L. Bottenstein (University of Texas, Galveston); R. P. Burgen (Washington University, St. Louis); J. De Vellis (University of California at Los Angeles); S. Pederoft (University of Saskatchewan, Saskatoon); M. M. Montagnier (University of California at San Diego); G. Mooney (University of Liege, Belgium); D. Muotone (University of Saskatchewan, Saskatoon); A. Richard (University of Saskatchewan, Saskatoon); S. Richardson (University of Saskatchewan, Saskatoon) and W. Walz (University of Saskatchewan, Saskatoon).

The course is intended primarily for scientists and senior graduate students. Accommodations and meals will be available in University Residences. Registration fee: $500.00. Applications should be submitted before 15 January 1988. Participation will be limited to 24 persons. Early registration is advised. Additional inquiries and application forms should be directed to:

Dr. S. Fedoroff
Department of Anatomy
University of Saskatchewan
Saskatoon, Saskatchewan
S7N 0W0
Telephone: 306-966-4080

POSITIONS OPEN

SCIENTIFIC ASSOCIATE

Position available immediately for Ph.D. research scientist in ocular molecular virology. Candidate must be skilled in biology, virology, cell biology and basic molecular biology. Knowledge of immunology and pharmacology desirable. Funding available with salary commensurate with qualifications. Send curriculum vitae to: D. P. Langston, M.D. or E. C. Dunksel, Ph.D., Eye Research Institute, 20 Staniford Street, Boston, MA 02114. Equal Opportunity/Affirmative Action Employer M/F/V/H.

Recent Ph.D. interested in immunochemistry and molecular immunology for a postdoctoral position as STAFF ASSOCIATE IN MICROBIOLOGY at the College of Physicians and Surgeons of Columbia University. Experience in protein or carbohydrate chemistry or hybridoma technology or molecular biology desirable. Problems involve study of monoclonal antipoly saccharide antibodies and the fine structures of their combining sites, cloning and sequencing. Send curriculum vitae to: Dr. Calvin A. Kabat, College of Physicians and Surgeons, Columbia University, 701 West 168th Street, New York, NY 10023. Columbia University is an Equal Opportunity/Affirmative Action Employer.

FLORIDA STATE UNIVERSITY Department of Chemistry and Supercomputer Computation Research Institute is recruiting a tenure-track POSITION available for an individual whose research utilizes supercomputers. The University is the site of the first ETA-10 supercomputer. Applicants at all levels will be considered. Although all areas of research involving supercomputer applications in Chemistry will be considered, the department especially values areas of computational molecular biology, electronic structure theory of large molecules, and chemical dynamics. Successful candidates are expected to participate in teaching at both undergraduate and graduate levels and to publish and present at national and international meetings. Applicants should include curriculum vitae, a description of the proposed research, and three letters of recommendation. Address inquiries to: Ralph S. Shapo, Production Director, Randolph L. Hil, Department of Chemistry, Florida State University, Tallahassee, FL 32306-3006. Equal Opportunity/Affirmative Action Employer M/F/V.

POSITIONS OPEN

The University of Alaska Fairbanks, Juneau Center for Fisheries and Ocean Science, is seeking applicants for a PROJECT FISH Biologist in the area of management of renewable aquatic resources. The appointment will involve research and/or supervision on the graduate level. Research will include emphasis on fisheries resources, benthic and pelagic marine life, groundfish, and shellfish with special attention to the Gulf of Alaska and the Bering Sea; development of new and improved gathering and storage techniques; and fish decision making; optimization techniques for determining best compromise among conflicting management objectives in mixed stocks and fisheries; assessment, enumeration, and stock identification of fish populations; recruitment processes and fisheries oceanography; multi-species interaction and disruption of stable prerecruit/preerythid communities; role of predation by piscivores in fish population dynamics. Applications should be received by 15 January 1988. Applicants should send a statement of interest, curriculum vitae, and the names and addresses of six of three references to:

Search Committee
Old Mathews, Chair
/o School of Fisheries and Ocean Science
University of Alaska Fairbanks
Fairbanks, AK 99775

The University of Alaska is an Equal Opportunity/Affirmative Action Employer and educational institution; your application for employment with the University of Alaska may be subject to public disclosure if you are selected as a finalist.

TOKYO LAB MANAGER/STUDY DIRECTOR: We are an industry testing lab looking for a research scientist seeking an experienced person (B.S./M.S.) to supervise and conduct acute and subchronic toxicology studies. Responsibilities include: protocol development, study design and implementation, data interpretation, results, client liaison. Familiarity with TSCA, FIFRA, FDCA and GLP regulations essential. Send resume to: Dr. Ralph Shapiro, Production Director, 725 Cranbury Road, East Brunswick, NJ 08816.

SCIENCE, VOL. 238
POSTDOCTORAL POSITIONS
NATIONAL INSTITUTES OF HEALTH

POSTDOCTORAL POSITIONS in the National Institute of Neurological and Communicative Disorders and Stroke, National Institutes of Health, are available immediately for biochemical studies on glycoproteins and glycolipids in myelinization, demyelinating diseases, and transmembrane signaling of receptor mediated information. Experience in molecular biology, neural tissue culture or glycolipid biochemistry is desirable. Appointments would be as Intramural Research Training Associates (United States citizens) for persons within 3 years of receiving their doctoral degree and are renewable annually for a maximum of 3 years. Starting salary will be $20,000 per year or higher depending on experience. Interested candidates should send a curriculum vitae and the names of 3 references to: Drs. Richard Quarles and Peter Fishman, Laboratory of Molecular and Cellular Neurobiology, Park Bldg., Rm. 451, 12420 Parklawn Drive, Rockville, MD 20852. For information on qualifications and benefits, please contact Ms. Janet Clagett on (301) 496-6334.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

POSTDOCTORAL VISITING SCIENTIST

A postdoctoral Visiting Scientist position is available within the Medical Products Department at Du Pont's Experimental Station in Wilmington, Delaware. The successful candidate will conduct basic research on the fibrinolytic system in vivo. Candidates should have a strong background in protein chemistry, animal physiology, hematology and/or cardiovascular disease. The appointment will be for one year, renewable for a second year upon mutual agreement.

At the world renowned Du Pont Company, you'll find a highly stimulating scientific environment in addition to an excellent salary. To be considered, please send resume, bibliography and references to: Professional Staffing, Employee Relations Department, Room X50939, Du Pont Company, Wilmington, DE 19898.

U.S. Citizenship or Permanent Visa Required
An Equal Opportunity Employer M/F/H/V

RESEARCH COORDINATOR
RADIATION ONCOLOGY

LIJ-Harvard Research Consortium

We seek a highly experienced technical scientist w/a BS degree in Basic Science or related field, Master's preferred. Min 2 yrs related research exp to participate in studies on vascular biology & cancer. Experience w/enzymology, protein chemistry, HPLC, recombinant DNA preferred. Excellent salary & benefits.

Send resume to: Dr. Arthur Lockwood, Dept. of Radiation/Oncology.

LONG ISLAND JEWISH MEDICAL CENTER
New Hyde Park, NY 11042

An Equal Opportunity Employer

PhD in Synthetic, Organic or Medicinal Chemistry

CHEMISTRY
Radiopharmaceutical Research
Are you looking for unsurpassed technical challenge?

Squibb Corporation, an internationally recognized leader in the research and development of innovative pharmaceuticals and health care products, is seeking an individual to head a multi-disciplinary team of chemists designing new radiopharmaceuticals based primarily on technetium.

Our successful candidate will hold a PhD in synthetic, organic or medicinal chemistry with 5 years at the bench. In addition, we require a minimum of 10 years experience in radiopharmaceutical chemistry with at least 5 years industrial experience as a Project/Team Leader. The candidate will be actively working within the field of radiopharmaceutical chemistry. This position will entail considerable interaction with the large support groups available within Squibb and with outside consultants.

In addition to professional growth, we offer outstanding benefits and a salary commensurate with experience. A comprehensive benefits program is also provided. Qualified individuals are invited to submit their resume and salary requirements to E.R. Squibb & Sons, Dept. AK/E13887, RD Box 191, New Brunswick, NJ 08903. An equal opportunity employer.

SQUIBB
Where science comes to life.
TEACHING LABORATORY SPECIALIST. Permanent position at small selective liberal arts college. B.S. in chemistry or biology required. M.S. preferred. Must have strong chemistry background. Duties include assisting in lab instruction, developing experiments, maintaining equipment and purchasing supplies. Send resume, transcripts and three letters of reference to: Dr. Jane Stephens, Natural Sciences, New College of the University of South Florida, Sarasota, FL 34243–2197. Telephone: 813-356-7471. Affirmative Action/Equal Opportunity Employer.

AWARDS

MEYER ARTHRITIS INVESTIGATOR AWARD. The Southern California Chapter of the Arthritis Foundation has established the Meyer Arthritis Investigator Award to an outstanding young investigator (M.D. and/or Ph.D.) conducting research in the rheumatic diseases. The Award, in the amount of $30,000, will be made for 1 year beginning July 1, 1988. Research conducted during the Award period must be done in the Southern California Chapter area or may be done by a Southern California investigator in another area provided he/she returns to Southern California. Deadline is 1 February 1988. For application write: Arthritis Foundation Medical and Education Department 4311 Wilshire Boulevard Los Angeles, CA 90010 Or telephone: 213-938-6111.

GRADUATE TRAINING

GRADUATE TRAINING IN BIOMEDICAL SCIENCES WITH SPECIALIZATION IN MICROBIOLOGY. The Microbiology and Immunology Department at the University of South Carolina Medical School has research assistantships available for qualified candidates wishing to pursue a Ph.D. degree. Areas of specialization include cell biology, molecular virology, viral and bacterial pathogenesis, analytical microbiology, and immunology. For more information contact: Dr. Alvin Fox, Graduate Director, Department of Microbiology and Immunology, University of South Carolina School of Medicine, Columbia, SC 29208. The University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

SENIOR FELLOWS

RESEARCH CAREER DEVELOPMENT IN GERONTOLOGY

The University of Michigan Institute of Gerontology announces the availability of stipends and related expenses for specialized training in gerontological research for qualified, established investigators in the behavioral, biological, clinical, and social sciences, and the humanities, as well as for qualified new investigators who have completed their postdoctoral training research. The intent of these awards is to prepare individuals, who already are or will later be trained as researchers in specific disciplines, for the pursuit of independent research in gerontology. Positions are available for periods of 1 to 3 years. Salaries and starting dates, as well as the possible appointments in cooperating academic departments, are negotiable. Potential faculty collaborators include: W. A. Achenbaum, Ph.D.; E. C. Adelman, Ph.D.; M. H. Aisenberg, M.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. Hareau, Ph.D., M.D.; House, Ph.D.; N. Kusanagi, Ph.D.; J. Kusuda, Ph.D.; J. L. Liang, Ph.D.; A. M. Perlmutter, Ph.D.; D. Steel, Ph.D.; M. Spuliano, M.D.; L. M. Verbrugge, Ph.D.; B. Villepontoux, Ph.D.; and T. P. White, Ph.D. Applicants should forward a letter of interest, curriculum vitae and bibliography, and a detailed record of current and previous grant support to: Richard G. Adelman, Ph.D., Director, Institute of Gerontology, The University of Michigan, 500 North Ingalls, Ann Arbor, MI 48109–2007. A Non-discriminatory Affirmative Action Employer.

TRAINING PROGRAM

POSTDOCTORAL TRAINING PROGRAM IN NEUROBIOLOGY, COLUMBIA UNIVERSITY. Emphasis is placed on the analysis of the cellular and molecular basis of neural development, behavior, and behavioral plasticity. Training faculty include: Richard Kronk, Richard Axel, Carl Bailey, Jenifer Korsmeyer, Vincent Tricchiello, David Dodd, Michael Gershon, Claude Ghez, Daniel Goldberg, Robert Hawkins, Thomas Jessell, Eric Kandel, Arthur Karlin, John Kroeze, Andrew W. MacAulay, John Martin, Steve Rayport, Lorna Role, Samuel Schacher, James Schwartz, Eli Shapiro, Steven Siegelbaum, Alan-Judith Silverman, Gary South, Madhush Tamar, Klaudeiuss Weiss, and Robert Wong. Applicants for this NMHD-sponsored program must have the M.D., Ph.D., D.V.M. degree, be citizens or have permanent residency status. Send curriculum vitae, a letter describing research interests, and three letters of reference to: Admissions Committee, Postdoctoral Training Programs, Department of Neurobiology and Behavior, 722 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

POSTGRADUATE TRAINING PROGRAM IN RADIOLOGICAL SCIENCE. 1 June 1988 opening for Ph.D. in the physical sciences to participate in a NIH-supported training program. The program affords an opportunity to enter the field of radiological sciences through formal instruction in seminars, and involvement in research. Areas of research include magnetic resonance imaging, positron emission tomography, kinetic modeling, radiation therapy, and computerized systems. Applicant for appointment is U.S. citizenship or permanent resident status. Address correspondence to: Dr. Nathanial M. Alpert, Department of Radiological Sciences and Technology, Massachusetts General Hospital, Boston, MA 02114.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS TOXICOLOGY

The University of Connecticut Toxicology Program has two openings (one immediate, one in the summer of 1988) for postdoctoral associates in biochemical/molecular toxicology. The NIEHS-supported program provides opportunities for research training with a focus on biochemical/pathological mechanisms of target organ toxicity, including toxicity of the hepatic, respiratory, cardiac, nervous, renal, and immune systems as well as teratological, mutagenic, and analytical methods for investigating mechanisms of toxicity. The toxicity of pesticides, metals, solvents, drugs and mycotoxins are of particular interest. Applicants must have a Ph.D., M.D., or D.V.M. degree, a U.S. citizen or permanent resident. The closing dates for applications are 1 January 1988 and 1 April 1988, respectively. Forward resumes and names of three references to: Dr. Kenneth Guzzi, Toxicology Program, University of Connecticut, School of Pharmacy, 372 Fairfield Road, Storrs, CT 06268. Applications from women and minorities are encouraged. We are an Affirmative Action/Equal Opportunity Employer, M/F (PER24).

PREDOCTORAL FELLOWSHIPS

Joint Graduate Program in Toxicology of Rutgers, The State University of New Jersey and The University of Medicine and Dentistry of New Jersey/Robert Wood Johnson Medical School. We are conducting a national search for scholars who wish to earn the M.S. and/or Ph.D. in toxicology. Our internationally recognized faculty will provide an opportunity for you to conduct research in cellular/molecular toxicology, immunotoxicology, hepatotoxicology, solvent toxicity, carcinogenesis, inhalation/respiratory toxicology, neurotoxicology, environmental chemistry, and metabolism of environmental chemicals. Sources of graduate student support include a N.I.E.H.S. training grant, graduate teaching assistantships, and a variety of graduate research fellowships which include tuition and stipends. For further information please contact: Dr. Robert Snyder, Director, Joint Graduate Program in Toxicology, Rutgers, The State University of New Jersey. Affirmative Action/Equal Opportunity Employer.

EAST-WEST CENTER, HONOLULU, HAWAII

POSTDOCTORAL FELLOWSHIPS IN RISK ASSESSMENT. The Environment and Policy Institute of the East-West Center is seeking a Fellow to conduct research on the application of risk assessment to toxic chemical and air pollution problems in developing countries. The Fellow will work closely with EAPI research staff to plan and implement multinational studies using a broad-based systems approach. Candidates should have a Ph.D. (or equivalent) in a relevant discipline plus 3 years of post-Ph.D. experience in risk assessment. Of particular interest are candidates with an understanding of quantitative risk assessment and of risk management considerations. Experience in Asian developing countries is desirable.

The starting date is flexible and the appointment will last from 6 to 12 months, with a possible extension. Stipend, depending on experience, will be $2,500 to $4,000 per month plus round-trip airfare. Please send a cover letter, curriculum vitae, and names, addresses, and telephone numbers of three references to: Dr. Kirk R. Smith, Research Associate, EAPI, East-West Center, 1777 East-West Road, Honolulu, HI 96848.

RESEARCH/MUSEUM FELLOWSHIPS

AMERICAN MUSEUM OF NATURAL HISTORY

Research/Museum Fellowships are available to post-doctoral researchers and established scholars starting in summer and fall 1988. Areas include vertebrate and invertebrate zoology, paleontology, anthropology, mineral sciences, and the field of museum education as it relates to natural history museums or planetariums. Deadline for applications including Chapman Fellowships (anthropology) is 15 January 1988. Request information booklet and application from: Office of Grants and Fellowships American Museum of Natural History Central Park West at 79th Street New York, New York 10024

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