POSITIONS OPEN

ANIMAL PHYSIOLOGIST

Applications are invited for a tenure-track ASSISTANT PROFESSORSHIP beginning 1 September 1990. Candidates should have postdoctoral training in animal physiology and/or molecular/cellular techniques, and a commitment to establishing an externally funded research program. A willingness to participate in both undergraduate and graduate teaching programs is expected. Teaching responsibilities will include an introductory course in human physiology and the development of an advanced course in the applicant's area of specialization.

Review of applications will begin 1 February 1990 and continue until the position is filled. Candidates should submit a letter of curriculum vitae, and names of three references to: Dr. Daniel D. Jones, Department of Biology, University of Alabama at Birmingham, UAB Station, Birmingham, AL 35294.

The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT CURATOR
DEPARTMENT OF EDUCATION
AMERICAN MUSEUM
OF NATURAL HISTORY

The Department of Education invites applications for a tenure-track curatorial position. Primary responsibility will be teaching adults, including presenting college-level courses for the adult division of the life lab. Given the public will assist in the preparation and editing of writing materials. May lead occasional weekend field study trips. Other projects as assigned.

Salary commensurate with qualifications and experience. The successful applicant must have completed all requirements for the Ph.D. by time of appointment, with a strong practical background in the natural sciences, especially vertebrate zoology fields. Should have participated in field studies, and have at least 2 years of teaching experience at the college level. Applicants should submit by 1 March 1990: a letter of application with a brief statement of objectives, curriculum vitae, complete bibliography, and names, addresses, and telephone numbers of three references. Send applications and three letters of reference to: Dr. Daniel D. Jones, Department of Biology, University of Alabama at Birmingham, UAB Station, Birmingham, AL 35294.

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Positions Open

**DEPARTMENT OF HUMAN GENETICS**

**ASSISTANT PROFESSOR**

The Department of Human Genetics invites applications for a full-time, tenure-track position in the area of human genetics. Applicants must have a Ph.D. in genetics or a related field and should have a strong research record and a demonstrated ability to teach effectively at the undergraduate and graduate levels. Applicants should submit a curriculum vitae, a statement of research plans, and the names of three references to: Chair, Search Committee, Department of Human Genetics, University of California, Los Angeles, CA 90095. Review of applications will begin on February 15, 1990, and continue until the position is filled. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

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POSITIONS OPEN

ASSISTANT PROFESSOR OF PHYSIOLOGY AND BIOTECHNOLOGY. A tenure-track faculty position in human physiologic sciences. Experience at the Ph.D./M.D. level is required. Successful candidates will be expected to participate in innovative teaching in a problem solving medical environment. Salary is competitive. Ph.D. or M.D. preferred. Send curriculum vitae and three letters of recommendation to Dr. Nancy R. Ippolito, New School of Biotechnology and Biomedical Engineering, SUNY at Albany, New York 12202.

ARTHUR RESEARCH EDITOR. The Arnold Arboretum of Harvard University invites applications for a research editor for the Flora of China Project. Responsibilities include: editing English translations of Chinese botanical descriptions and taxonomic treatments; herbarium verifications of written descriptions with actual specimens and testing of keys; original research in related fields. Qualifications will include: Ph.D. in Asian flora and geography. Familiarity with an Asian language will be helpful. The position will be renewed annually, pending funding, and will remain open until a suitable candidate is found. Send résumé, letter of interest, and the names of three references to Dr. David Boule, Arnold Arboretum, 22 Divinity Avenue, Cambridge, MA 02138.

ARTHUR RESEARCH DIRECTOR. The Arnold Arboretum of Harvard University invites applications for a director to manage a new program of botanical inven- tory in the Far East. Responsibilities include: day-to-day management of Arnold Arboretum collaborations with Asian botanical institutions for mounting inventory expeditions; coordination with other botanical conservation organizations; budgetary plan ning and implementation; database management; supervisory responsibility for all personnel; original research in fields related to the program. Qualifications will in clude: Ph.D. in plant systematics with knowledge of Malesian flora; proven leadership and management skills; experience in field programs in tropical Southeast Asia; knowledge of computer database management. Send résumé, letter of interest, and the names of three references to: Dr. Robert E. Cook, Arnold Arboretum, 125 Arborway, Jamaica Plain, MA 02130.

FACULTY POSITION DEPARTMENT OF MEDICAL BIOCHEMISTRY AND IMMUNOLOGY The Department of Medical Biochemistry and Immunology invites applications for a non-tenure-track position. Salary and rank are open and dependent upon qualifications. An endowed chair is a possibility for an exceptional candidate. Each candidate must include: a curriculum vitae, describing research interests, and a commitment to undergraduate instruction and research. Experience in animal physiology is required. The college has a student population of approximately 4500 undergraduates and is located near Lake Erie, 40 miles from Buffalo. The department has 10 faculty and about 250 undergraduate majors in biology, medical technology, and recombinant gene technology. Graduate degrees are offered in Biochemistry and Biotechnology. The department includes a three-year Ph.D. and a five-year M.D./Ph.D. program. The department is located in the newly constructed Robert A. Harris Science Center. Send curriculum vitae and three letters of recommendation to: Dr. Howard A. Dorn, Department of Biological Sciences, SUNY at Brockport, Brockport, NY 14420.

PHYSIOLOGICAL ASSISTANT PROFESSOR. The Department of Biological Sciences, State University of New York (CUNY) College at Fredonia invites applications for a tenure-track position available August 1990. Qual ifications include a Ph.D. in physiological sciences and an ability to teach undergraduate instruction. Experience in physiology is required. The college has a student population of approximately 4000 undergraduates and is located near Lake Erie, 40 miles from Buffalo. The department has 10 faculty and about 250 undergraduate majors in biology, medical technology, and recombinant gene technology. Graduate degrees are offered in Biochemistry and Biotechnology. The department includes a three-year Ph.D. and a five-year M.D./Ph.D. program. The department is located in the newly constructed Robert A. Harris Science Center. Send curriculum vitae and three letters of recommendation to: Dr. Howard A. Dorn, Department of Biological Sciences, SUNY at Brockport, Brockport, NY 14420.
**Biomolecular Discovery**

**Postdoctoral Scientist**

SmithKline Beecham Pharmaceuticals, a leader in Pharmaceutical Research, has two openings for Postdoctoral Scientists to participate in the discovery of novel antineoplastic agents utilizing specific mechanism-based screens for natural products from marine organisms, terrestrial plants and microbial sources. One of the candidates will be involved in development of specific bioassays to detect inhibitors of targets such as topoisomerases, enzymes in recombination and DNA damage repair pathways, specific proteases and receptors. This individual will also participate in biological characterization of compounds discovered in the screens.

The other candidate will be responsible for fractionation of extracts to isolate and purify active components and will collaborate with members of the Department of Physical and Structural Chemistry in structural elucidation. In addition, this individual will be responsible for chemical modification of novel compounds when necessary for structure elucidation and for subsequent SAR studies. The Department of Biomolecular Discovery is an established group of biologists and chemists committed to the discovery of novel natural products using specific mechanism-based screens for receptor antagonists and enzyme inhibitors relevant to a broad spectrum of therapeutic areas.

Candidates for the biology position will have:
- A Ph.D. in pharmacology, biochemistry or related field.
- Expertise in biochemistry and/or receptor biology.
- Skills in yeast genetics and molecular biology are highly desirable.

Candidates for the chemistry position will have:
- A Ph.D. in organic chemistry with 1-2 years experience in natural products.
- Extensive knowledge of isolation and separation techniques and the ability to interpret spectral data.
- Demonstrated productivity as evidenced by publications in the scientific literature.

Publications of research findings in leading journals and full interaction with the scientific community are strongly encouraged.

Our state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. SmithKline Beecham Pharmaceuticals provides a stimulating and challenging work environment with opportunities for professional growth. We offer an attractive compensation and benefits package. For confidential consideration, send your C.V. and the names of three references to: Nancy Hasson, H0127, SmithKline Beecham Pharmaceuticals, Research & Development, P.O. Box 1538, King of Prussia, PA 19406-0538. We are an Equal Opportunity Employer, M/F/H/V.

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**U.S. ENVIRONMENTAL PROTECTION AGENCY’S 1990 VISITING SCIENTISTS AND ENGINEERS PROGRAM**

The Environmental Protection Agency’s (EPA) Office of Research and Development is accepting applications to its 1990 Visiting Scientists and Engineers Program. Applicants must have a minimum of five years experience beyond the Ph.D. Those selected will conduct research at one of the following EPA laboratories (or office) for up to three years on a full or part-time basis. Applications will be accepted through May 31, 1990, on the following topics:

**HEALTH EFFECTS RESEARCH LABORATORY, RESEARCH TRIANGLE PARK, NC**
- In Vitro Approaches for Neurotoxicity Assessments
- Subcellular In Vitro Approaches for Neurotoxicity Assessments
- Application of Mechanistic Information and/or Mathematical Models to Improve Low Dose and Interspecies Extrapolations in Developmental Toxicity Risk Assessments
- Studies in Experimental Dosimetry Involving Exposure Via the Respiratory, Dermal, and Oral Routes
- Development of Physiologically Based Models to Predict the Pharmacokinetic Behavior of Environmental Chemicals
- Investigation of the Health Effects of Inhaled Pollutants on Human Pulmonary Cells In Vitro and In Vivo

**RISK REDUCTION ENGINEERING LABORATORY, CINCINNATI, OH**
- Basic Research into the Physics and Chemistry of Binding Interactions Between Contaminants (Organics, Inorganics, Metallic, and Soil Particles

**ROBERT S. KERR ENVIRONMENTAL RESEARCH LABORATORY, ADA, OH**
- Measurement of Multiaspex Fluids in Laboratory Soil Columns

**ENVIRONMENTAL MONITORING SYSTEMS LABORATORY, CINCINNATI, OH**
- Development of Analytical Methods for Organic Disinfection By-products in Drinking Water

**ENVIRONMENTAL RESEARCH LABORATORY, CORVALLIS, OR**
- Improved Statistical Methods for Evaluating Ecological Monitoring Data
- Effect of Drainage on Woody Plants
- Ecological Indicators of Landscape-Level Environmental Stress
- Indicators of the Ecological Health of Wetlands
- Spatial Analysis of a National Environmental Database
- Effects of Aridland Toxic Chemicals Ecosystems
- Cumulative Effects of Wetland Loss on Hydrologic Functions of Watersheds
- Ecotoxicants Using Biological Community Assemblage Measures
- Changes in Below-Ground Processes in Woody Plants in Response to Natural and Anthropogenic Environmental Stress
- Environmental Biotechnology Risk Assessment
- Effects of Multiple Stresses on Biodiversity
- Biogenic Emissions as Feedback Processes to Climate Change
- Ecological Effects of Global Climatic Change
- Research into Population Parameters Sensitive to Stress
- Development of DNA Probes to Identify and Track Fungi, Viruses, and Bacteria in Populations
- Atmospheric Research & Exposure Assessment Laboratory, Research Triangle Park, NC
- Development of Human Exposure Models to Accurately Predict Exposures to Environmental Pollutants
- Management and Assessment of Quality Assurance Data from Large Air Pollution Monitoring Programs
- Laboratory Simulation of Buoyant Plume Penetration at Elevated Inversions
- Environmental Monitoring Systems Laboratory, LAS VEGAS, NV
- Use of Remote Sensing Digital Imagery, in Conjunction with Geographic Information Systems (GIS), to Delineate, Map, and Monitor Ecosystems
- Human Health Assessment Group (HHAG), Office of Health and Environmental Assessment, Washington, DC
- Research into the Application of Biostatistical and Mathematical Modeling Approaches to Reproductive and Developmental Toxicity Data for Human Health Risk Assessment
- Research in Methods Development and Risk Assessment Approaches to Evaluate Female Reproductive Toxicity
- Pharmacokinetics Modeling: Development of Appropriate Models for Incorporation of Available Relevant Metabolism and PK Data into Risk Assessment
- Implications of Rat, Kidney Tumor Response for Cancer Risk Assessment in Humans
- Prediction of Cancer Risk on the Basis of Epidemiological Data

For an instruction booklet containing detailed application requirements and other important information, write to:

Alvin Edwards
1990 Visiting Scientists and Engineers Program
Office of Exploratory Research, RD-675
U.S. Environmental Protection Agency
461 M Street, S.W., Room NE306
Washington, D.C. 20460
Phone: (202) 382-7653

EPA is an equal opportunity employer.
HENDRICK COLLEGE BIOLOGY DEPARTMENT

Two FACULTY POSITIONS: Developmental biologist to teach histology, anatomy, and embryological development; microbiologist to teach general microbiology and advanced course(s) in candidate's specialty. Both positions are tenured at the ASSOCIATE PROFESSOR level, with appointment at the assistant professor level, and require participation in teaching introductory biology, direction of undergraduate research (start-up funding is available), student advising, and faculty governance. Apply by 1 February 1990 to: Dr. Bruce Haggard, Chairman, Biology Department, Hendrick College, Conway, AR 72032.

An Equal Opportunity/Affirmative Action Employer.

Tenure-Track Faculty Position
UCR/UCLA Program in Biomedical Sciences
Cell Biology/Histology

The UCR/UCLA Program in Biomedical Sciences, which offers an accelerated M.D. curriculum jointly between the University of California, Riverside (UCR), and the University of California, Los Angeles (UCLA), School of Medicine, has a tenure-track faculty position open in the Division of Biomedical Sciences at UCR available 1 July 1990.

Primary teaching responsibilities will be one-half of a 12-week lecture and laboratory course in histology for 24 first-year medical students. Second-year medical school clerkship experience is strongly preferred. The successful candidate will also be expected to actively participate in graduate student training.

The committee welcomes applications from those with research interests in any area of cell biology who would enjoy working within a multidisciplinary environment.

The position is at the ASSISTANT PROFESSOR level, with the possibility of promotion to the full professor level at some future time. Candidates must have a Ph.D. and postdoctoral research experience and the potential to develop a strong, extramurally funded research program. Senior applicants should have a clearly demonstrable record of research productivity, success in obtaining extramural funding, and demonstrated teaching effectiveness. The University of California is an Affirmative Action/Equal Opportunity Employer. The deadline for application is 15 February 1990. Applicants should send curriculum vitae, representative reprints, a statement of present and future research goals, and summary of teaching experience, and arrange to have three letters of recommendation sent to: Dr. Amece M. Walker, Cell Biology/Histology Search Committee, Division of Biomedical Sciences, University of California, Riverside, CA 92521-0121.

MICROBIOLOGIST OR BIOCHEMIST

The Colorado School of Mines, Department of Environmental Engineering, invites applications for a tenure-track position at the ASSISTANT OR ASSOCIATE PROFESSOR level, depending on qualifications.

The applicant should possess a Ph.D. in microbiology, biochemistry, or a related field. A minimum of 2 years of experience in research and teaching is required. Research interests related to microbial processes in geochemistry, transformation of organic or inorganic pollutants, and waste management would be appropriate. The candidate must have a commitment to excellence in teaching and to the development of a successful graduate research program.

Teaching duties will include courses in applied microbiology and biochemistry. The person occupying this position should be able to work cooperatively in building an interdisciplinary graduate research program combining microbiology, geochemistry, and environmental science. A joint appointment with the Department of Chemistry and Geochemistry is an option.

Applications will be accepted until 15 January 1990 or until the position is filled. Candidates should send curriculum vitae, statement of professional goals, and at least three letters of reference to: Colorado School of Mines, Environmental Science Search Committee, P.O. Box 69, Golden, CO 80401.

An Equal Employment Opportunity/ Affirmative Action Employer. Females and minorities encouraged to apply.

ECOTOXICOLOGY LABORATORY GROUP HEAD

Exxon Biomedical Sciences, Inc., has an immediate opening for a qualified individual to lead the operation of our Ecotoxicology Laboratory. The state-of-the-art laboratory includes facilities to culture and test marine and freshwater invertebrates, and some higher plants. Of primary interest to us are investigations of population structure and intercellular and intracellular recognition and morphogenesis. The Cell Biology and Genetics Program is located in a new research building which also houses advanced equipment for protein and nucleic acid microchemistry, transgenic mice, and automated mammalian cell micromanipulation. The members of the Cell Biology and Genetics Program faculty are affiliated with the Cell Biology Graduate Program at Cornell University Medical College. The positions offered are highly competitive with regard to start-up funds, laboratory space, salary, and housing.

Eligible candidates should have a doctoral degree, postdoctoral experience, and demonstrate potential and interest in leading research and development programs. Formal applications are invited from junior as well as established investigators. Applications should include curriculum vitae, names of five references, a summary of research activities and research plan, and three letters of recommendation. Applications should be addressed to: Dr. Patricia A. Bedene, Exxon Biomedical Sciences, Inc., Box #135, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021.

Equal Opportunity/Affirmative Action Employer.

GENE EXPRESSION/VACCINE FORMULATION ENGINEER

BIOSTAR Inc. has immediate openings for staff scientists in its vaccine development program. Bacterial Gene Expression: One staff position is available for an individual experienced in bacterial gene expression in bacteria. This position will involve the development of novel expression/secretion systems for Gram negative bacteria. Applicants must have at least 2 years of relevant postdoctoral experience and an interest in mechanisms of protein secretion. One staff position is available for an individual experienced in downstream processing, purification of antigens from eukaryotic and prokaryotic expression systems, vaccine formulation, and adjuvant technology. Fax: (201) 348-1111. The In Vitro Diagnostic Organization (VIDO), provides a stimulating atmosphere with the opportunity to collaborate with other scientists in the fields of virology, bacteriology, immunology, and molecular biology. Successful candidates will be expected to operate as an integral part of a research team and should have good communication skills. For consideration, please forward your curriculum vitae and names of three references to: L. A. Babik BISTAR Inc. Box 1000, Sub P.O. Box #675230 Saskatchewan, Saskatchewan 57N 0W0 Canada.

ARIZONA STATE UNIVERSITY THREE FACULTY POSITIONS

The Department of Zoology at Arizona State University invites applications for three faculty positions at the level of ASSISTANT PROFESSOR: (i) ANIMAL PHYSIOLOGIST to complement departmental strengths in comparative and environmental physiology; (ii) AQUATIC ECOLOGIST to complement strengths in the ecology of inland waters; (iii) TERTIAL ECOLOGIST to establish a research program in terrestrial ecology and use of the Sonoran Desert. Appointment to these positions will be expected to receive a teaching assistantship, which will be expected to exceed in research and teaching. Submit curriculum vitae, state- ment of research and teaching interests, selected reprints, and three letters of recommendation to either: (i) Dr. Jeffert L. Kinnison, Chair, Zoology Search Committee; (ii) Dr. Anton Lawson, Chair, Aquatic Ecology Search Committee; or (iii) Dr. Stanley Faeth, Chair; Terrestrial Ecology Search Committee; or Arizona State University, Department of Zoology, Tempe, AZ 85287.

Deadline is 31 January 1990. Rankings of applications submitted to this search will be determined by the date the position is filled. Projected starting date is 15 September 1990. Applications from two individuals for a single shared appointment will be considered. Arizona State University is an Equal Opportunity/Affirmative Action Employer.
SMITH COLLEGE
DEPARTMENT OF PHYSICS

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

Opportunities In Science
San Francisco Bay Area

SyStemix, Inc. is an exciting new company developing revolutionary technology for the study of human disease processes and treatments.

Positions will be part of our new laboratory facility currently dedicated to the evaluation of HIV/AIDS studies.

Pharmacologist

Position will interact with our research team as well as industry and government institutions in the evaluation of new treatments. Must have in-depth knowledge of pharmaceutical principles and techniques with 2-5 years of post-doctoral experience.

Research Associates

Candidates must have experience in Biochemistry, Virology and/or Immunology. A background in tissue culture, BSL3 or animal handling is desirable.

SyStemix offers competitive compensation and advancement opportunities. Our full range of benefits include tuition reimbursement and 3 weeks of vacation a year. Interested candidates should send resumes to: SyStemix, Inc., 3400 West Bayshore Road, Palo Alto, CA 94303. An Equal Opportunity Employer.

Chair in Geology (Structural Geology/Regional Geology).

Department of Geology, section A, University of Bergen, Norway invites applications for a vacant chair in geology (structural geology/regional geology).

Salary is on the scale 35, Nkr. 276,792, p.a. gross, of which Nkr. 5,333 p.a. are paid in pension contributions.

The chair will be appointed on the understanding that any changes in scientific duties, pension or retiring age made by law or by the King with the agreement of Parliament are to be accepted without compensation.

Applicants should submit 5 copies of scientific work—published or unpublished—which they wish to be considered for the appointment as well as 6 copies of a list of all scientific contributions with information on where they were published. Scientific contributions are to be submitted, in numbered order and in 5 groups, to the science faculty of the University of Bergen within one month of the closing date for applications. Scientific manuscripts in preparation may be submitted within 3 months of the closing date for applications provided notice of intent is given on submitting the other publications. Applicants are otherwise referred to the current rules for the procedure to be followed in the appointment of professorships and readerships. A resume of the vacant chair can be obtained on request from: Sekretariatet for Det matematisk-naturvitenskapelige fakultet, Postboks 25,—Universitetet, 5027 Bergen, Norway.

Should the evaluation committee find several applicants to be equally well qualified for the position, the University Board will adhere to the regulations in the University of Bergen Equal Employment Opportunities agreement (Serav-tale om likstilling).

Applications, which must include a complete curriculum vitae, should be addressed to the Senate of the University of Bergen and be sent together with relevant certificates and one copy of a list of publications to Det matematisk—naturvitenskapelige fakultet, Postboks 25,—Universitetet, 5027 Bergen, Norway, by February 1, 1990.

ANALYTICAL SCIENCES

Fisons Pharmaceuticals, a multinational Research and Development organization, is recruiting for two newly created positions at its US facility in Rochester, NY. Analytical Sciences is responsible for documenting the purity, potency and biological fate of Fisons' pharmaceuticals. These positions offer challenging opportunities to innovative candidates with proven scientific expertise, a doctorate (or lesser degree with equivalent work experience) in a relevant discipline, and effective communication and organizational skills.

Head of Development Analysis

This experienced scientist will provide the analytical expertise to develop research formulations used in pre-clinical and clinical trials of new drugs. Leading a versatile, interdisciplinary group, the successful candidate will develop assays and specifications to document drug and formulation purity, degradation and impurity profile, formulation potency and stability; and release raw materials and finished supplies for use. Prior supervisory experience in a GLP, GMP or QC environment and familiarity with fulfilling regulatory documentation is expected.

Senior Bioanalyst

This scientist will develop, validate and implement novel methods for quantitating new chemical entities in biological fluids. The successful candidate will have developed original and sensitive chromatographic methods for a variety of drugs and related metabolites, using appropriate extraction, separation and detection systems. Immunoassay experience would be an asset. This position will require both hands-on and supervisory effort to achieve objectives, and will demand creative solutions. Since this section's activities are governed by GLP, industrial experience is preferred.

For consideration, send resume and salary requirements, in confidence, to Mr. Bill VanBuskirk at Fisons Pharmaceuticals, P.O. Box 1710, Rochester, NY 14603.

Fisons

An Equal Opportunity Employer M/F.
Fisons is a smoking-restricted company.
FACULTY POSITIONS

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

FACULTY POSITIONS IN BIOLOGICAL SCIENCES

The Department of Biological Sciences, San Jose State University, invites applications for two tenure-track positions to begin August, 1990. Applicants must have earned doctorate and teaching experience. Post-doctoral research experience desired. Significant professional contributions and development of active research program will be expected. Both positions include teaching general education science, advising undergraduate and graduate students, and participation in the M.A. Degree program. Candidates must have an awareness and sensitivity to the educational goals of a multicultural population. Cross cultural experience and/or training preferred. (1) TOXICOLOGIST/CELL BIOLOGIST. Assistant or Associate Professor. Candidate must be able to teach introductory and advanced courses in toxicology, courses(s) in cell biology for biology majors, and/or introductory biology courses. (2) MICROBIOLOGIST. Assistant Professor. Candidate should have a broad spectrum of knowledge in microbiology, preferably with competence in immunology and/or virology, and must be able to teach introductory and advanced microbiology courses. Applications are also invited for a one year, temporary faculty position as COORDINATOR OF MEDICAL TECHNOLOGY PROGRAM to begin Spring semester, 1990. Candidate must have a Master's degree in biological science and a California License in Medical Technology, in-depth knowledge of the rules and regulations for licensure of Medical Technologists in the State of California, and teaching experience in undergraduate microbiology courses. The University is committed to increasing the diversity of its faculty so our disciplines, students and community can benefit from multiple ethnic and gender perspectives. Completed applications, with transcripts, curriculum vitae, statements of professional goals, and three letters of reference must be sent by January 20, 1990 to: Dr. Wayne Savage, Chairman, Department of Biological Sciences, San Jose State University, San Jose, CA 95192. SJSU is an Equal Opportunity/ Affirmative Action, Title IX Employer.

POSITIONS OPEN

St. John’s University

New York

The Department of Biology, College of St. Thomas, invites applications for a full-time, temporary (1-year) position starting in September 1990. Rank and salary are negotiable. Duties will include lectures and some laboratory sections for a non-major course in general biology with an enrollment of 150 majors in either general botany or animal diversity. The College of St. Thomas is a coeducational, Catholic, liberal arts college located on the north shore of Minnesota. The individual student. The successful candidate will have the Ph.D. or substantial progress toward the Ph.D. and a strong commitment to teaching at the undergraduate level and in a liberal arts setting. Send letter of application, curriculum vitae, and have three letters of recommendation sent directly to: Ms. Penny M. Pearson, 2115 Summit Avenue, St. Paul, MN 55105. All materials must be received by 1 February 1990.

The College of St. Thomas is an Equal Opportunity/ Affirmative Action Employer.

MASS SPECTROSCOPIST. Rice University Department of Biochemistry announces the availability of a scientific staff position for an experienced bioorganic mass spectrometrist to operate GC-MS units and to assist in the areas of mass spectrometry, steroid metabolism, and the chemistry of complex lipids. Salary dependent on qualifications and experience. Position available immediately. Applications should consist of a resume and names of three references to: G. J. Schroepfer, Jr., Department of Biochemistry, Rice University, P.O. Box 1892, Houston, TX 77251. Rice is an Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGIST

ASSISTANT, ASSOCIATE, OR PROFESSOR

The Department of Microbiology, University of California at Davis, invites applications for an 11-month tenure-track, open rank position from candidates who have demonstrated excellence in microbiological research. The candidate will be expected to develop a dynamic, productive, and growing department with strength in diversity, physiology, and genetics. Teaching responsibilities include graduate and undergraduate courses in bacterial physiology and genetics. Please send curriculum vitae, selected publications, a statement of proposed research, a description of teaching experience and interests, and the names of three references to: Dr. J. C. Meeks, Chair, Physiology/Genetics Search Committee, Department of Microbiology, University of California, Davis, CA 95616. The position will remain open until filled; however, to be assured of consideration, applications should be received by 1 February 1990. The University of California is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

MOLECULAR BIOLOGIST/VIROLOGIST. Kansas State University College of Veterinary Medicine has an available tenure-track position as an ASSISTANT OR ASSOCIATE PROFESSOR in molecular virology. Duties: 60 to 80% research, 20 to 40% instruction. This faculty member will develop independent and collaborative research and participate in graduate instruction. Some instructional responsibilities in the D.V.M. curriculum may be assigned. A Ph.D. with training and experience in modern molecular virology/research required. A D.V.M. or evidence of training or experience with viral diseases of domestic animals preferred. Submit curriculum vitae, a statement of career goals, and names and addresses of three references regarding your professional capabilities to: Dr. Wayne E. Bailie, Department of Laboratory Medicine, VMS Building, Manhattan, KS 66506. Application deadline is 15 January 1990. Kansas State University is an Equal Opportunity/Affirmative Action Employer. Minorities, women, and other protected group members are encouraged to apply.

POSTDOCTORAL RESEARCH. The Research Triangle Institute is an independent, not-for-profit organization located in Research Triangle Park, North Carolina, that has an opportunity in an interdisciplinary group working toward development of new treatments for drug abuse. Preference will be given to applicants with experience in molecular biology. To apply, forward curriculum vitae, description of research interests, and names of three references to: Dr. Betty E. Fales, Vice President, The Center for Chemistry and Life Sciences, Research Triangle Institute, P.O. Box 12194, Research Triangle Park, NC 27709, An Affirmative Action/Equal Opportunity Employer.

IMMUNOLOGIST

The Department of Microbiology at Colorado State University invites applications and nominations for a faculty position in the areas of cell biology, development, or cell, developmental biology or neurobiology. Rank and salary are open and negotiable, and syllabus of advanced training in the application of modern, cellular, molecular, and/or structural biology to the immune system. Preference will be given to individuals whose research interests and expertise complement ongoing programs in infectious diseases. The successful candidate will be expected to develop an independent research program and to contribute to departmental teaching responsibilities in immunology. Applications letter including statement of research interests and goals, curriculum vitae, and three letters of recommendation should be sent to: Barry J. Beatty Search Committee Chairman Department of Microbiology Colorado State University Fort Collins, CO 80525 Telephone: 303-491-6794 Applications will be accepted until 28 February 1990 or until a suitable candidate is identified. Salary and rank are commensurate with experience. CSU is an Equal Opportunity/Affirmative Action Employer.

UNITED STATES DEPARTMENT OF COMMERCE (USDOC)

MARINE ECLOGIST

The National Marine Fisheries Service, Alaska Region, is seeking a marine ecologist to serve as an assessment studies coordinator within the Office of Oil Spill Damage Assessment and Restoration, located in Juneau, Alaska. This office was recently established to manage the National Oceanic and Atmospheric Administration's (NOAA) programs regarding the Exxon Valdez oil spill in Prince William Sound, Alaska. Incumbent will be responsible for coordination of the NOAA damage assessment studies program being conducted to determine natural resource injuries as a result of the oil spill. Minimum requirements include a B.S. in the biological sciences and 2 or 3 years of professional experience in marine-related science. Graduation in marine biology or marine biology may be substituted for experience. This is a term appointment, not to exceed 4 years. Salary is $12, starting at $35,825 plus 25% COLA. U.S. citizenship required. Contact: Lori Budbill, telephone: 206-526-6066, for announcement and application forms by 8 January 1990. USDOC is an Equal Opportunity Employer.

EMINENT SCHOLAR, FLORIDA. Funding for an endowed chair has been reserved by the University of Florida College of Dentistry through matching funds of the Eminent Scholar Program of the state of Florida. Proctor sponsorship was awarded to Dr. George Y. Davis, the college's first Eminent Scholar. Requirements include the D.D.S. or D.M.D. degree and a superior record of teaching, research, and service. Postdoctoral training is desirable, as well as a research record which includes extramural funding or the capacity to attract such support. Expertise related to clinical dentistry in an interdisciplinary area is preferred. Applicants should be willing to share their knowledge and expertise through continuing education or other appropriate extramural endeavors.

Inquiries, nominations, and applications may be directed to: Dr. Frank J. Vertucci, Chairman Search Committee, Box J-436, JHMHS, Gainesville, FL 32610–0436, by 15 February 1990.

OREGON Tenure-track position in Department of General and Oral Pathology. Candidates will have a doctorate in dentistry, medicine, or a Ph.D. with training in molecular biology, molecular genetics and/or immunology. Candidates are expected to, or have, established record or demonstrated potential for funded research. Salary range is negotiable with commensurate credentials. OHSU is an Equal Opportunity/Affirmative Action Employer. M/F.

SCIENCE, VOL. 246
PHARMACOLOGY AND TOXICOLOGY
FACULTY POSITION

The Department of Pharmacology and Toxicology at the Medical College of Virginia invites applications for a tenurable faculty position at the rank of ASSISTANT PROFESSOR. A doctorate degree, or its equivalent, and at least 2 years of relevant postdoctoral experience are required. We are seeking an outstanding scientist studying the biochemical or molecular pharmacology of drugs or toxins, capable of establishing a funded independent research program and contributing to the teaching of graduate and professional students in the area of pharmacology or toxicology. The primary focus of the search is for an individual with an interest in using the methods of modern molecular biology or cellular electrophysiology to study basic mechanisms of cell function and/or drug action, although individuals with other areas of interest at the cellular or molecular level will also be considered. A complete job description and desired qualifications will be sent on request. Send curriculum vitae and names of three references by 1 February 1990 to: Dr. Robert L. Balster, Department of Pharmacology and Toxicology, Medical College of Virginia, Virginia Commonwealth University (VCU), Richmond, VA 23298-0613. VCU is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION
UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Physiology and Biophysics is seeking a junior member with research interests in the molecular and electrophysiological aspects of lymphocyte activation at the ASSISTANT PROFESSOR (tenure-track) level commencing winter 1990. The successful candidate will be expected to have postdoctoral experience in molecular biology, electrophysiology, and immunology; preference will be given to candidates with relevant clinical experience. Send curriculum vitae, a brief description of research interests, and the names of three referees before deadline date of 15 January 1990 to: Dr. Scott E. Fraser, Acting Chairman, Department of Physiology and Biophysics, University of California, Irvine, CA 92717.

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

FACULTY POSITION
CELLULAR AND MOLECULAR BIOLOGY
NATIONAL JEWISH CENTER FOR IMMUNOLOGY
AND RESPIRATORY MEDICINE

The Division of Basic Sciences at the National Jewish Center for Immunology and Respiratory Medicine is seeking four outstanding scientists to complement existing strengths in transmembrane signaling and immunology. Research interests may include developmental biology, gene transcription, protein processing and transport, growth regulation including oncogene and proto-oncogene function, or cell membrane biophysics. The National Jewish Center for Immunology and Respiratory Medicine is a private, nonsectarian research institute and is affiliated with the University of Colorado Health Sciences Center. Applicants should have M.D., Ph.D., or both, and submit curriculum vitae, names and addresses of three references, and a statement regarding present and future interests to:

John Cambier, Ph.D.
Chair, Search Committee
Division of Basic Sciences
National Jewish Center for Immunology and Respiratory Medicine
1490 Jackson Street
Denver, CO 80206

National Jewish Center for Immunology and Respiratory Medicine is an Equal Opportunity Employer.

OPHTHALMOLOGY RESEARCHER

to perform genetics research to determine underlying causes of retinoblastoma and clinically related tumors, and role of retinoblastoma gene in cancer development. Analyze and compare structural changes and deletions in DNA. Develop and test methods of prevention. Assist in preparation of articles for publication. Must have M.D. degree or equivalent and 3 years of experience in this job. $621 per week, 40 hours per week. Job site and interview in Los Angeles, California. Send ad and resume to: Job #S8-10766, P.O. Box 9500, Sacramento, CA 95823-0560, no later than 8 January 1990.

POSTDOCTORAL FELLOWSHIPS

The Ludwig Institute for Cancer Research has initiated a collaboration with CAMBRIDGE NEUROSCIENCE RESEARCH, INC., a research and development company focusing on neurobiology and its applications, to discover neurotrophic factors with therapeutic potential in the treatment of human neurodegenerative diseases and cancer. With this collaboration, we are offering Postdoctoral Fellowships and Staff Scientist opportunities under the direction of Dr. M.D. Waterfield.

Candidates should have a Ph.D. or equivalent with experience in Protein Chemistry or Cell Biology/Tissue Culture. Experience in growth factor research would be highly desirable. Candidates who are selected to participate in this joint venture will benefit from the resources made available by the merging of technical, academic and industrial research environments that this collaboration allows. These resources include the proven capabilities of the Institute's advanced bioreactor facility to purify and characterize large quantities of growth factors from cell lines and tissue as well as its advanced downstream processing capabilities. Candidates will interact with highly specialized staff and will use the state-of-the-art technology of the Institute's sophisticated protein sequencing capabilities.

Please send curriculum vitae (2 copies) and names of three references to: Secretary to the President, Ludwig Institute for Cancer Research, 91 Riding House Street, London W51PBT, England.

An equal opportunity employer
**ELECTRO-STATIC & HIGH VOLTAGE PHENOMENON**

We are a progressive R & D unit of a Fortune 500 corporation located in a beautiful north suburb of Chicago. Our current search is for a dynamic scientist with 5-10 years of hands-on experience in electro-static and high voltage phenomena, and excellent project leadership ability. We require at least an MS degree in Physics with a PhD preferred. Candidates with less practical experience (3-5 years) but with impressive academic/ professional credentials will also be considered.

When you join us, you can look forward to an excellent salary/benefits program with relocation assistance, and career advancement in a state-of-the-art environment. For immediate, confidential consideration, send resume and salary history to: Director of Human Resources.

**ITW TECHNOLOGY CENTER**
3650 W. Lake Ave.
Glenview, IL 60025
An Equal Opportunity Employer

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**ELECTRON MICROPROBE ANALYST**

**TRANSMISSION ELECTRON MICROSCOPIST**

The University of Alabama is seeking an electron microprobe analyst to operate a new JEDOL 6600 electron microprobe (EMP) and a transmission electron microscopist to operate a new Hitachi H-8000 transmission electron microscope (TEM). The EMP is equipped with 5 wavelength dispersive spectrometers, a 5600 automation, a 5N40 energy dispersive X-ray analyzer, and a TN 5702 digital image analysis system. The TEM is equipped with a STEM attachment, a TN 5502 X-ray detector, and a signal processing system. Both instruments are located in the central analytical facility of the new Tom Bevill Energy, Mineral, and Material Science Research Building which houses a variety of electron optical, X-ray, spectrographic, and chromatographic analytical equipment.

The EMP analyst and TEM microscopist will supervise operation of the instruments, perform analyses for researchers, and train users in routine analytical procedures. Experience in the following areas is considered an asset for the EMP analyst: 1) microprobe techniques and X-ray data correction methods for geological materials, 2) mineral chemistry and petrology, 3) computer programming, and 4) EMP maintenance. Experience in the following areas is considered an asset for the TEM microscopist: 1) TEM/STEM techniques for materials science, 2) thin-film research, 3) quantitative analytical microscopy, and 4) high-resolution microscopy. The EMP analyst and TEM microscopist are expected to participate in on-going research projects and will be encouraged to carry-out their own research.

The EMP analyst should have a M.S. in Geology, but candidates with expertise in some or all of the above fields will be considered. The TEM microscopist should have a degree in Natural Sciences or Metallurgy; work experience in a research environment is desirable. Salaries will be commensurate with experience. Applications must be received before February 1, 1990; appointments begin March 1, 1990. Send a letter of application, vitae, and the names of three references to Dr. Jen-Ho Fang, Chairman, Department of Geology, Box 870338, University of Alabama, Tuscaloosa, Alabama 35487.

The University of Alabama is an equal opportunity/affirmative action employer.

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**AAAS MASS MEDIA SCIENCE AND ENGINEERING FELLOWS PROGRAM**

The American Association for the Advancement of Science (AAAS) invites outstanding students in the natural and social sciences and engineering, preferably those at the graduate level, to apply for the 1990 Mass Media Science and Engineering Fellows Program. Students majoring in English, journalism, or other nontechnical fields are not eligible for these fellowships.

Fellows will work as reporters, researchers, production assistants, and script consultants for 10 weeks during the summer at newspapers, news magazines, and radio and television stations across the country. Fellows will have the opportunity to participate in the news making process, to increase their understanding of editorial decision making, and to develop skill in conveying to the public a better understanding and appreciation of science and technology.

AAAS pays a $350 weekly stipend and travel expenses. Deadline for receipt of applications is 2 February 1990. Minorities and persons with disabilities are especially encouraged to apply.

For further information and applications, write:

Mass Media Science and Engineering Fellows Program
AAAS
1333 H Street, NW
Washington, D.C. 20005
POSTDOCTORAL FELLOWSHIP

Two-Year Postdoctoral Fellowship in Animal Behavior at the National Zoological Park (Smithsonian Institution) and the Laboratory of Comparative Ethology (National Institute of Child Health and Human Development, National Institutes of Health).

Senior Postdoctoral Fellowship
Is offered to a scholar who has held the degree for more than seven years. Stipend is $25,000 per year plus allowances.

Postdoctoral Fellowship
Is offered to a scholar who has held the degree for less than seven years. Stipend is $19,000 per year plus allowances.

Applicant must submit a detailed proposal including a justification for conducting the research in residence at the Smithsonian/NIH. Areas of interest include mammal and avian communication, developmental behavior, comparisons of behavior in lab, field, and exhibit settings, and cross-species compatibility.

For information contact:
Dr. Edwin Gould, Curator of Mammals
National Zoological Park, Washington, D.C. 20008
or
Dr. Stephen J. Suomi, Chief
Laboratory of Comparative Ethology
Bldg. 31/B2815
NICH/NIH
9000 Rockville Pike
Bethesda, MD 20892

DEADLINE FOR POSTDOCTORAL FELLOWSHIPS, JANUARY 15, 1990.

The National Zoological Park and NIH are Equal Opportunity Employers.
PHYSICS. Seek broadly trained physicist for one-year nonrenewable faculty position. Prefer candidate with interest and experience in teaching physics in interdisciplinary context which includes historical, philosophical and social aspects. Persons with substantive multicultural experience to interact with strong cultural diversity. Teaching strongly urged to apply. For application procedures, write: Faculty Hiring, The Evergreen State College, Olympia, WA 98505, or call, telephone: 206-866-6900, ext. 6861. Review will begin 15 January 1990.

POPULATION GENETICIST. Tenure-track ASSISTANT/ASSOCIATE PROFESSOR position open 20 August 1990. Ph.D. required; postdoctoral experience desirable. Experience in studying genetic and morphological characteristics of fish populations required. Salary: $27,000-$31,000. Send resume, list of publications and names, addresses, and telephone numbers of three references to: Dr. Takeru Ito, Chair, Search Committee, Department of Biology, East Carolina University, Greenville, NC 27834–4353. Telephone: 919-757-6302. As an Equal Opportunity/Affirmative Action Employer, we encourage applications. Equal access and opportunity to all persons without regard to race, color, or national origin.

POSTDOCTORAL POSITION available now to study myeloid membrane structure/function. Research projects involve myeloid membrane protein characterization, and characterization of natural and artificial features of myeloid cell surfaces and of natural replicative complexes. Particular attention will be given to characterizing auxiliary proteins. Structure: The structure of replicative complexes will be investigated by the use of chemical and biochemical techniques including chemical and photo crosslinking and fluorescence energy transfer techniques. Regulation: The regulation of the synthesis of DNA replication enzymes will be investigated with particular attention to how replication protein synthesis is coordinated with the overall regulation of cell growth and division. For more information, see: Annual Review of Biochemistry 57, 519–550 (1988).

ENZYMOLOGY OF RETRANSPORT AND RETRANSPORT REPPLICATION Positions are available to participate in an ongoing program aimed at development and study of complex in vitro systems for the replication and integration of retroviruses (HIV) and retrotransposons (yeast Ty). The projects will emphasize cloning of the genes for necessary proteins into expression vectors, production of templates using T7 RNA polymerase in vitro, developing assays for other necessary factors, and protein purification. The approaches used do not include infectious particles or complete viral genomes. Individuals should have a Ph.D. or equivalent with research experience in molecular biology. Function, K. Adolph, Ed. (Springer-Verlag, New York, 1989). Molecular Biology of Chromosome Function, K. Adolph, Ed. (Springer-Verlag, New York, 1989). Aspirants are preferred who desire a training experience in a rigorous laboratory in preparation for an independent research career. To: apply, please send curriculum vitae, a letter of recommendation, and a brief description of career goals to: Charles McHenry, Ph.D., Director, Program in Molecular Biology, University of Colorado School of Medicine, B-121, 4200 East 9th Avenue, Denver, CO 80262, Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available for membrane transport studies on structure-function analysis of a membrane transport protein. Salary negotiable, commensurate with experience. Send letter of application, curriculum vitae, and list of references to: Dr. Ada Elgavish, Department of Comparative Medicine, University of Alabama at Birmingham School of Medicine, Birmingham, AL 35294, an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN MOLECULAR NEUROBIOLOGY AND PHARMACOLOGY are available to researchers interested in a multidisciplinary approach to the regulation and neuromodulation of receptor-operated ion channels. Receptor systems under investigation include the GABA/benzodiazepine, glycine, and adenosine receptors. Some of the techniques in use are electrophysiological, radioligand binding, photoinactivation, SSS-PAGE, ion flux, and whole-cell patch-clamp, and oocyte-electrophysiology. Salary: to $25,000. Send curriculum vitae and references to: Dr. David Farb, Chairman, Department of Pharmacology and Experimental Therapeutics, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118, Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in ENVIRO- NEURAL RESEARCH Laboratory (ERL), Dalhousie University, Halifax, Nova Scotia. ERL is a multi-disciplinary research group investigating the neurotoxicological impact of non-pollutant chemicals on the central nervous system. Applicants must have a Ph.D. in a biological or environmental science, and five years postdoctoral experience. Send resume and names of five references to: Dr. Mark Tenforde, Chief Scientist, Life Sciences Center (K-50), Dalhousie University, P.O. Box 999, Halifax, N.S. B3H 3J9. Deadline for receipt of applications is February 1990. (Battelle is an Equal Opportunity Employer.)
POSTDOCTORAL POSITIONS. Available summer fall 1990 to participate in the identification, isolation, and molecular cloning of neurotransmitter reuptake proteins. A background in membrane biochemistry, protein chemistry, or molecular genetics is desirable but not essential. Send curriculum vitae and names of three references to: Dr. Gary Rudnick, Department of Pharmacology, Yale University School of Medicine, P.O. Box 3333, New Haven, CT 06510.

RESEARCH ASSOCIATE for state university in northwestern Ohio. Research in photobiology (induction of chemical reactions by use of light), chemical kinetics (study of rates of chemical reactions), and spectroscopy (study of absorption of light) as these subjects relate to photodynamic therapy (use of light and chemicals to kill tumors). Ph.D. in chemistry and 18 months of experience in the job described required; 40 hours per week; 8 a.m. to 5 p.m., Monday to Friday; $25,000 per year. Send resume (no calls) to: G. Magunsen, J0#1204532, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

RESEARCH ASSOCIATE
Cedars-Sinai Medical Center, a leading acute-care, research, and teaching institution, is recruiting at the research associate level for a biomedical research scientist. As a member of the Department of Obstetrics and Gynecology Oncology, Research in the field. This position will be responsible for tissue culturing, DNA/RNA isolation, and hybridization; immunohistoch- emistry; and processing specimens for tumor bank. This position requires postdoctoral M.D. or Ph.D., a minimum of 2 years of experience in molecular biology technology and tissue culture, and certification to handle radioactive materials.

We offer an attractive compensation/benefit package. For immediate consideration send curriculum vitae to: Cedars-Sinai Medical Center, Employee Relations, The Brown Building, 8700 Beverly Boulevard, Los Angeles, CA 90048, Attention: Rebecca Chandler.

RESEARCH ASSOCIATE PROFESSOR OF PHARMACOLOGY. To work on the isolation of insulin mediator and anti-insulin substances and elucidate their structure, mechanism of action, and biosynthesis. Candidates should have a strong chemical background in the isolation and identification of biological components; knowledge of physico-chemical techniques such as mass spectrometry; monospecificity would be an advantage. Experience and biological assay is essential. Applicant should be well informed in the mechanism of insulin action. Previous experience with insulin mediator would be an advantage. Send curriculum vitae to: Dr. Joseph Lerner, Department of Pharmacology, University of Virginia, Charlottesville, VA 22908. An Equal Opportunity/Affirmative Action Employer.

RESEARCH MANAGER, DIABETES. Duties: manage and direct activities of a group of senior scientists responsible for the discovery and development of drugs for the treatment of diabetes mellitus and its complications; coordinate all research activities of the group with other research and development activity with the company in the area of diabetes research; develop and implement research programs and tests, including methodology and procedures, for development and discovery of drugs for the treatment of diabetes mellitus and its complications; establish scientific goals, budgeting, and personnel for group; develop and identify staffing needs, establish schedule and objectives; review scientific results to ensure accuracy and scientific integrity; prepare and deliver status reports and research results to corporate supervisors; coordinate scientific collaboration with academia in area of diabetes mellitus.

Requirements: broad knowledge of diabetes mellitus, its etiology, pathophysiology and current therapeutic modalities; experience in handling laboratory animals; radioisotope labeling techniques, spectroscopy, chromatography of lipids and carbohydrates, immunohistochemical techniques, protein purification, enzyme assays, electrophoresis and metabolic studies in animals, both in vivo and in vitro.

Minimum education: Ph.D. in biochemistry. Minimum experience: 5 years in scientific research relating to diabetes. $58,457 per year; Monday to Friday; 8 a.m. to 4:30 p.m. Job Order # NC 3090681, DOT Code 180-117-030. Interested persons apply to: Job Service, 516 North Magna Street, Durham, NC 27701 or nearest Job Service Office (résumés must be submitted).

GROUP LEADER

Metabolism Research

The Medical Research Division of American Cyanamid Company is seeking a Group Leader with considerable experience to lead a team of dedicated professionals in our Pearl River, NY facility.

The successful candidate will design, conduct and supervise studies determining the metabolism of drugs including profiling, isolation and positive identification of metabolites. The candidate will also be responsible for conducting ADME studies of drugs, as well as supervising the development of analytical methods for the analysis of drugs and metabolites in biological matrices, including radioimmunoassays.

To qualify, you must possess 9-11 years' experience in classical drug metabolism with at least 5 of those years in an industrial environment. A Ph.D. in drug metabolism, or in a related science with a strong medicinal chemistry background is required.

We offer a competitive starting salary, excellent benefits and the chance to work with the best in the industry. Lederle Laboratories is located on a 580-acre site in Rockland County, NY—just north of New York City. For immediate and confidential consideration, send your resume with salary requirements to: Professional Employment Representative, Dept. DD, Lederle Laboratories, N. Middletown Road, Pearl River, NY 10965. An Equal Opportunity Employer.
THE SCIENCE RECRUITMENT
“FOUR DAY CLOSE”
NOW YOU CAN SEE YOUR AD IN SCIENCE FOUR DAYS AFTER SUBMISSION

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Film (right-reading, emulsion face down) or full camera ready art and insertion order must reach: SCIENCE, Short Close Desk, 1515 Broadway, New York, NY 10036 by NOON Mondays (except for legal holidays when material must reach New York by Noon Fridays). Because space is limited, the four-day close page will be reserved on a first-come, first-served basis, at a 15% premium. ¼ and ½ page ads only.

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CANCER EPIDEMIOLOGY AND BIOSTATISTICS FELLOWSHIP PROGRAM
NATIONAL CANCER INSTITUTE
NATIONAL INSTITUTES OF HEALTH
PUBLIC HEALTH SERVICE

PROGRAM INFORMATION

Fellowship applications from epidemiologists, biostatisticians and geneticists are being solicited by the Epidemiology and Biostatistics Program, Division of Cancer Etiology, National Cancer Institute, National Institutes of Health. This Program is the major research arm of the U.S. government for epidemiologic and biostatistical research in cancer etiology. It includes research on the distribution, causes, natural history and means of prevention of cancer, employing a variety of epidemiologic and multidisciplinary approaches to study environmental and host risk factors.

A Fellow may elect a temporary assignment to one of the laboratory-based programs in the Institute for training in experimental techniques relevant to epidemiologic studies having biochemical or molecular components. Fellows are accepted for one to three years of training. Positions will become available from May 1 through September 1, 1990. The awards range from $17,000 to $39,000 per annum, depending on the experience and qualifications of the applicant. Benefits include participatory health insurance, and selected relocation and travel expenses.

QUALIFICATIONS

The Cancer Epidemiology and Biostatistics Fellowship Program is available to highly qualified applicants with a variety of academic and research backgrounds including:

1. Physicians interested in epidemiologic and/or biostatistical research, particularly as it pertains to cancer etiology.

2. Ph.D. scientists interested in epidemiologic and/or biostatistical research in cancer. The doctoral degree should be in epidemiology, biostatistics, genetics, nutrition or other related disciplines.

3. Ph.D. candidates in doctoral programs in epidemiology, statistics or related areas, whose research at NCI could become the basis of dissertations. Approval of the candidates’ university department would be required.

4. Masters-level scientists with a degree related to epidemiology or statistics, and who intend to pursue doctoral-level education in this field.

This program is limited to applicants whose last academic degree was awarded within three years, and who are U.S. citizens or resident aliens eligible for citizenship within four years. For more experienced investigators, a limited number of fellowships with a higher stipend range are available.

HOW TO APPLY

Please submit CV’s with bibliography, SF-171 form, and three letters of recommendation to:

Joseph F. Fraumeni, Jr., M.D.
Epidemiology and Biostatistics Program
Division of Cancer Etiology
National Cancer Institute
Executive Plaza North, Room 543
Bethesda, MD 20892

Questions concerning the fellowship program should be directed to Dr. Michael Alavanja at (301) 496-1611

Deadline for receipt of applications: March 1, 1990

THE NATIONAL INSTITUTES OF HEALTH IS AN EQUAL OPPORTUNITY EMPLOYER.
ENVIRONMENTAL SCIENCE AND ENGINEERING FELLOWSHIPS
SUMMER 1990
Applications Invited

The American Association for the Advancement of Science (AAAS) invites applications for ten environmental science and engineering fellowships available for summer 1990. The Fellows will work at the U.S. Environmental Protection Agency (EPA), with the Office of Research and Development, in Washington, DC, to assist in identifying and assessing the significance of long-range environmental problems and opportunities. The ten-week fellowships will run June 4 through August 10, 1990.

Applicants must be postdoctoral to mid-career scientists and engineers. Candidates may be from the physical, biological, or behavioral sciences, or any field of engineering or other relevant professional fields. Fellows are expected to be critical thinkers, articulate, adaptable, and able to work with a variety of people from different professional backgrounds. Applicants must be residents of the U.S.

The 1990 Environmental Fellows will receive a stipend of $800 per week and a nominal additional amount for temporary relocation expenses and travel in connection with the fellowships.

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

Deadline for applications is March 1, 1990. The awards will be announced by April 30, 1990. The continuation of this program, now in its 10th year, is contingent on the availability of funds. For further information and specific application requirements contact:

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

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Senior Scientists

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Battelle, a leading contract research and professional services organization in Columbus, Ohio, has an immediate need for a few uniquely skilled senior scientists in the areas headlined above for our Health and Environment Group. These positions involve leading or participating in multidisciplinary teams studying pharmaceutical efficacy, product development, and safety. These laboratory studies include the use of in vitro and in vivo models.

The positions require a PhD and/or equivalent. A minimum of 3 years of experience since the PhD is expected. The experience should include laboratory research including written results. Demonstrated skills in project leadership and line management are desirable.

Battelle offers competitive salaries, comprehensive benefits, and opportunities for professional development. Please send your resume to: Mr. Richard Shaw, Battelle, Dept. C-6, 505 King Avenue, Columbus, OH 43201-2693. An Equal Employment/Affirmative Action Employer M/F/H/V.

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Associateship Programs GR 430S4

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NATIONAL RESEARCH COUNCIL

2101 Constitution Avenue, N.W.
Washington, DC, 20418
FAX: (202) 334-2759

Deadlines for application:
January 15 (December 15 for NASA), April 15 and August 15
Molecular Genetics
Senior Scientist

Crop Genetics International, a leading agricultural biotechnology company located in suburban Baltimore/Washington is seeking an energetic, innovative scientist to advance our proprietary technology in crop protection. The InCide™ approach uses genetically engineered bacteria, which colonize the vascular systems of major crop plants, to deliver agents effective against plant pests.

The successful candidate will have a Ph.D. in Molecular Biology or a related discipline. Experience in bacterial gene expression and physiology is required, as well as expertise in recombinant DNA technology.

To apply, forward a curriculum vitae in confidence and the names of three professional references to Dept. MB7.

Crop Genetics International
7170 Standard Drive
Hanover, MD 21076

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The Centers for Disease Control, Division of Vector-Borne Viral Diseases, is now accepting applications for Chief, Dengue Branch in San Juan, Puerto Rico. Applications are invited from persons with experience and expertise in epidemiology, microbiology, virology, or medical entomology. A medical, veterinary or other doctorate degree level is preferred.

The person selected for this position will be responsible for planning, developing, and directing a broad based program which includes laboratory and field research on arboviral diseases of public health importance, community based programs of prevention and control and providing reference services and research capabilities to national and international agencies on arbovirus diseases. Also responsible for supervising Branch personnel and providing technical and consultative services to local, state, and other Federal agencies in the investigation and control of diseases. Supervises a staff of approximately 35 employees, including 5-7 doctorate level professionals. This position is offered at a GM-15 level (salary range $57,158-$74,303, depending on training and experience; with an additional cost of living allowance and comparability allowance for physicians). The position may be filled at equivalent levels under commissions in the U.S. Public Health Service. Interested candidates should submit a Curriculum Vitae, a statement of research interests, and three letters of recommendation to:

Director, DVBDV
CDC
P.O. Box 2007
Fl. Collins, CO 80522


CDC is an equal opportunity employer and provides a smoke-free work environment.

Positions Open

RESEARCH ASSOCIATE. Ph.D. in immunoparasitology with 3 years of postdoctoral experience. Candidate should have experience in an independent investigator of a research program, develop an extramural funded research project, and be willing to work on parasitic infections. Teaching experience desirable. Submit curriculum vitae, three references, and statement of research interest. For a complete job description write to: Dr. Richard J. Dunja, Box 491, MCV Station, Richmond, VA 23298, by 22 January 1990. Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

RESEARCH APPOINTMENTS at the Bureau of Entomology and Vector-Borne Diseases, are available at the postdoctoral level in the following areas:
(i) Genetically Engineered Bacteria
(ii) Cell Biology
(iii) Virology
(iv) Intracellular Pathogenesis
(v) Immunology
(vi) Entomology
Salary is competitive, commensurate with experience. Applicants should send curriculum vitae and a list of three references to: Dr. John M. Lubbock, Director, BENV, University of Virginia, P. O. Box 525, Charlottesville, VA 22905. Deadline for receipt of applications is 15 March 1990.

RESEARCH FELLOWSHIP in Molecular Immunology is available at the postdoctoral level for a winter or spring appointment. Areas of interest include: (i) Humoral and cellular immunity to parasitic infections, (ii) Cell-mediated immunity to parasitic infections, and (iii) Development of vaccine strategies. The fellowship is for a period of 12 months with an option for a second year. Applications are due by 30 November 1989. For further information contact: Dr. Robert J. Mandel, Department of Immunology, University of California, Irvine, CA 92717. Equal opportunity/affirmative action employer.

Fellowships

POSTDOCTORAL FELLOWSHIP position in the Department of Pathology, University of Washington, to study the control of endothelial and smooth muscle cell growth. Candidates should have a knowledge of vascular biology, and experience in cellular interactions would be an asset. Position available spring 1990. Send resume to: Michael A. Reddy, Ph.D., Department of Pathology, University of Washington, Department of Pathology SJ-60, Seattle, WA 98195.

Situations Wanted

Chemical Patent Attorney, experienced, desires full-time position in small to medium firm, in all areas of patent law. Send resume to: Paul F. F. Don Favre (prominent favor) at 703-742-3840.

Chemist/Biochemist/Physiological Sciences. Extensive teaching in clinical biochemistry, chemistry, endocrinology, toxicology, hematology, cancer research. Instru. visible UV, infrared, TLC, electrophoresis, GC, Fluorometry, TIA. Supervision, administration, consulting. Prefer academic, government, hospital, research institute. P.O. Box 354, Rochelle Park, NJ 07662.

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

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CONGRESSIONAL SCIENCE AND ENGINEERING FELLOWSHIPS

Applications Invited

The American Association for the Advancement of Science (AAAS) invites applications for two one-year Congressional Science and Engineering Fellowships. In addition to the fellowships awarded by the AAAS, about 15 others are given by other participating professional societies. Each AAAS fellowship is a postdoctoral appointment in the Congress. Fellows work as special legislative assistants within the congressional staff system.

Persons may apply from any physical, biological or behavioral science or any field of engineering. The term "science" is used broadly to include the system sciences, public health, and other technical professions. In addition to the fellowships awarded by the AAAS, about 15 others are given by other participating professional societies. The AAAS runs a long-term seminar program for both its own Congressional Science and Engineering Fellows and those selected by the participating societies. Addresses of all participating and fellowship opportunities are available from the list referred below.

The 1990–1991 AAAS Congressional Science and Engineering Fellows will receive a stipend of $38,000; an additional $2,000 is available for relocation expenses and travel in connection with the program.

The deadline for submission of application materials is January 15, 1990. The award will be announced about May 1, 1990. For detailed information on the program and specific application requirements, write:

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

NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE
NATIONAL INSTITUTES OF HEALTH
PUBLIC HEALTH SERVICE

FELLOWSHIP IN NEUROViroLOGY

The Laboratory of Experimental Neuropathology, intramural Research Program, National Institute of Neurological Disorders and Stroke (NINDS) invites applications for the position of Staff Fellow/IRTA Fellow to study the role of Polymavirus in human neurologic diseases. Salary ($24,000–40,000) is commensurate with experience.

Qualifications include a recent Ph.D. in microbiology or biochemistry (within last 7 years) with molecular genetics background. Candidates with experience in DNA amplification and sequencing preferred. Appointments are for 2 years renewable annually. U.S. citizenship required.

For further information about the position call Janet Clagett, NINDS Personnel Office at (301) 496-6344 or Dr. Stoner at (301) 496-6144.

Applicants should send a letter of application giving recent research accomplishments, a curriculum vitae, and three letters of recommendation to:

Gerald L. Stoner, Ph.D.
Laboratory of Experimental Neuropathology, NINDS
Bldg. 36, Room 4A-29
National Institutes of Health
9000 Rockville Pike
Bethesda, Maryland 20892
(301) 496-6144

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

SCIENCE, ENGINEERING AND DIPLOMACY FELLOWSHIPS

Applications Invited

The American Association for the Advancement of Science (AAAS), in cooperation with the U.S. Agency for International Development (AID) and the Department of State (STATE) is seeking applicants for approximately twelve Science, Engineering and Diplomacy Fellowships. Fellows will spend one year, beginning September 1, 1990, working either in the Bureau of Oceans and International Environmental and Scientific Affairs of the U.S. Department of State or in one of several bureaus and offices of the Agency for International Development. Other assignments may also be possible.

Prospective Fellows must demonstrate exceptional competence in some area of science or engineering, be flexible, have some experience and/or a strong interest in applying knowledge toward the solution of problems in the area of foreign affairs, and have a Ph.D. or equivalent in years of experience. Awardees will work in international affairs on scientific and technical subjects: foreign policy for STATE and international development for AID. In general, individuals are urged to apply from any area of physical, biological, behavioral, and social science and engineering and whose experience and training is applicable to any one of the following areas: health and population; food and agriculture; nuclear nonproliferation; scientific exchange; forestry, natural resources and ecology; oceans and fisheries; communications; national security; and human resources and education, among others.

The Fellows will serve a one-year appointment at a salary consistent with education level and experience, if possible, but not exceeding the GS-12 level (beginning at about $35,000). The fellowship award is limited to U.S. citizens and is contingent upon the selectee obtaining a security clearance.

Deadline for receipt of application is January 15, 1990. For more information and application details write:

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

MOLECULAR/CELL BIOLOGY of PLANTS AND CYANOBACTERIA
Texas A&M University

Applications are invited for several postdoctoral positions in the Department of Biology, Texas A&M University, with the following faculty:

James Carrington  Potyviral protein processing and virus-host interactions
James Golden  Developmental genome rearrangements in cyanobacteria
Susan Golden  Regulation of photosystem II genes in cyanobacteria
Lawrence Griffing  Pathogenesis-related receptor-mediated endocytosis in plants
Timothy Hall  Regulation of monocot, dicot and plant-viral gene expression
Terry Thomas  Factors controlling gene expression in plant development

Send application, including C.V. and names and addresses of three references, to the faculty member of interest at:
Department of Biology, Texas A&M University, College Station, TX 77843.
Phone: 1-800-TAM-BIOL  FAX: (409) 845-2891

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SITUATIONS WANTED

Neurophysiologist/Behavioral Neuroscientist. Hispanic. M.D. in Mexico; Ph.D. in Japan; postdoctoral experience in the United States. Seeks long-term position in academia or industry. Productive research on the effects of peptides and other endogenous factors on the nervous system. Experience with rodents and nonhuman primates: intra- and extracellular recording, behavioral techniques, neural transplantation, animal surgery. Twenty English journal articles in last 4 years. Extensive research, clinical, and teaching experience. Box 258, SCIENCE.

Risk Analyst, Manager, Physics Ph.D., 18 years of experience in energy and environment. Background in government, consulting, academia. Former coordinator of risk analysis at national laboratory. Good writer: four books, 100 papers, monographs. Innovative and active. Well recognized, listed in Who's Who, over 340 citations. Seeks senior position in risk management, graduate research in many areas related to the cancer problem with emphasis on biomolecular structure/function studies. Assistantships and fellowships provide tuition waiver and $10,000 per calendar year. Participating faculty are affiliated with Roswell Park Cancer Institute, the nation's oldest cancer research institute, and the State University of New York at Buffalo. Address inquiries to: Dr. Harold C. Berg, Dept. of Biophysics, Department, Roswell Park Cancer Institute, Buffalo, NY 14263. An Equal Opportunity/Affirmative Action Employer.

Graduate Training Program in Molecular Biology. The Rockefeller University Graduate School offers training in molecular biology leading to the Ph.D. degree in biophysics. Opportunities for graduate students in many areas related to the cancer problem with emphasis on biomolecular structure/function studies. Assistantships and fellowships provide tuition waiver and $10,000 per calendar year. Participating faculty are affiliated with Roswell Park Cancer Institute, the nation's oldest cancer research institute, and the State University of New York at Buffalo. Address inquiries to: Dr. Harold C. Berg, Dept. of Biophysics, Department, Roswell Park Cancer Institute, Buffalo, NY 14263. An Equal Opportunity/Affirmative Action Employer.

Molecular Endocrinology and Techniques for Hormone Action
18 82 12 February 1990

This course will consist of lectures in methodology with comprehensive syllabus covering receptors, gene transcription, mRNA and protein synthesis, recombinant DNA, protein hormones, and cyclic nucleotides. Co-directors: M. R. Hughes and B. W. O'Malley. Fee: $365 (3245: fellows and students)

For further information contact:
Bonnie Outburt
Department of Cell Biology
Baylor College of Medicine
Telephone: 713-798-6200
Deadline: 2 February 1990

NASA PLANETARY BIOLOGY INTERNSHIPS. The Marine Biological Laboratory, Woods Hole, Massachusetts invites applications from graduate students and seniors accepted to graduate programs for awards of $2000 plus travel to participate in research at NASA centers and universities for approximately 8 weeks. Typical research programs include: global ecology, remote sensing, microbial ecology, biomineralization, and origin and early evolution of life. Application deadline: 1 March 1990. For information/applications contact: Greg Hinkle, Planetary Biology Intern Program, Department of Botany, University of Massachusetts, Amherst, MA 01003. An Equal Opportunity/Affirmative Action Institution.

MEETINGS

NASA Symposium
A NASA Interdisciplinary Symposium on The Influence of Gravity and Activity on Muscle and Bone will be held on 29-30 January 1990 at the NASA Ames Research Center (Moffett Field), Mountain View, California. Invited experts will present talks on musculoskeletal modeling and scaling of skeletal size, and mechanical properties of muscle and bone, functional adaptation, and metabolic processes. Public invited. To register, contact: Joellen Stolarik, Bionetics, Ames Research Center/MS 242-3, Moffett Field, CA 94035. Telephone: 415-694-5745.

ANNOUNCEMENTS

LANDSCAPE SCALE AND PATTERN OF THE 1988 FIRES IN THE GREATER YELLOWSTONE ECOSYSTEM

A NASA Interdisciplinary Symposium is scheduled for 29-30 January 1990 at the NASA Ames Research Center (Moffett Field), Mountain View, California. The symposium will include invited talks on the landscape scale and pattern of the 1988 fires in the Yellowstone area. The symposium will be held in connection with the 1988 fires in Yellowstone National Park, and an operational GIS system has been implemented for the Yellowstone Fire Management and Planning System. Fire management and planning decisions are being made, and data are being collected. Public invited. To register, contact: Joellen Stolarik, Bionetics, Ames Research Center/MS 242-3, Moffett Field, CA 94035. Telephone: 415-694-5745.

RESEARCH GRANTS AND FELLOWSHIPS

Basic Neurosciences $5,000 to $25,000
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Postdoctoral Fellowships $20,000 to $40,000

Write to: Tourette Syndrome Association, 42-405 Bell Boulevard, Bayside, NY 11361.

Letter of intent due: 15 January 1990
Final proposal due: 15 April 1990

Please note: The Tourette Syndrome Association, Inc. does not provide any overhead or indirect costs.

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SCIENCE, VOL. 246
At the Lilly Research Laboratories, a Division of Eli Lilly and Company, we offer unique opportunities for postdoctoral scientists—opportunities that provide excellent experience in the areas of biology, pharmacology and chemistry. Collaborating with Lilly scientists in the conceptual and design phases of projects, you'll gain indepth training in the research process of drug discovery within the pharmaceutical industry. An integral part of the program will be the publication & presentation of project results. We now have opportunities available within the following areas:

**Genetic Engineering And Molecular Biology Research**
This project may involve but will not be limited to cDNA library construction, isolation of cDNA coding sequences, PCR amplification, DNA sequence analysis, protein isolation, and enzyme characterization.
Responsibilities involve cloning, expressing and analyzing genes for enzymes that process protein prohormones to mature hormones in vitro. A background in Molecular Biology, Biochemistry and Microbiology is desired.

**Carbohydrate Biochemistry Research**
This program involves the characterization of oligosaccharide structures of recombinantly produced glycoproteins and other novel carbohydrate-containing therapeutic agents.
Responsibilities include examining aspects of oligosaccharide structure and effect of site-directed protein mutagenesis, correlation with cell culture parameters, and correlation with functional activity. A background in Biochemistry, Analytical Biochemistry, Cell and Molecular Biology or a related area is desired.

**Molecular Modeling & Medicinal Chemistry Research**
The overall goals of this project are to understand molecular recognition phenomena, develop new tools for drug design, and discover novel therapeutic agents. Projects include supercomputing, advanced visualization techniques, organic synthesis, and SAR studies.
You'll be involved in the application of advanced computational techniques for designing new receptor antagonists and enzyme inhibitors. A background in Organic Chemistry and Molecular Modeling is desired.

**Tumor Biology Research**
Research will involve one or more of the following areas: mechanism of cytotoxic action of immunoconjugates; mechanism of in vivo selection of tumor cells resistant to chemotherapeutic agents; and isolation and characterization of monoclonal antibodies reactive with novel tumor-associated epitopes.
A background in Tumor Immunology, Tumor Physiology, Biochemistry, and/or Molecular Biology is desired.

Postdoctoral appointments are of one year duration and are renewable for a second year with mutual agreement. Candidates with no more than one previous postdoctoral experience are encouraged to apply.
Lilly Research Laboratories offers state-of-the-art research facilities containing the most modern equipment. Eli Lilly and Company will provide a comprehensive pay and benefits program including relocation expenses. Qualified applicants should send their curriculum vitae, including program of interest to:
Christina C. Bodurow, Ph.D. Ph.D. Recruitment (PSP)
Eli Lilly & Company
Lilly Corporate Center
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