PERSONNEL PLACEMENT

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing, no abbreviations. Any deadline in ad must be at least 2 weeks after date of issue in which ad appears. Also, personal lines contain a request not to identifying the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish personal lines submitted to it.

LINE CLASSIFIED ADVERTISING DEADLINES:
Thursday, 10 a.m., 2 weeks prior to issue date (mailed on issue date). For same day display advertising, please contact Schemer Associates.

POSITIONS WANTED

400 word per page, plus $4 for use of box number, per week. Minimum charge $400 per line, $400 minimum, per week. No charge for use of box number. No agency commis- sion for any position less than 4 inches. No cash refunds. Prepayment required for all foreign ads. Purchase orders accepted for all other advertising.

Send copy for all Positions Wanted ads and Line Classified ads less than 1/2 page in size (39 lines) to:

SCIENCE Classified Advertising 1325 P St., NW, Washington, DC 20005
Phone: 202-326-6555

Send copy for Fractional Display ads, 1/2 page and larger, and all other ads to:
Schemer Associates, Inc.,
1515 Broadway New York, NY 10036
Phone: 212-730-1050

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

POSITIONS WANTED

Cell Biologist, Ph.D.—Extensive experience in immunoassays, anti-HIV drug screening, genetic toxicology, carcinogenesis, cell culture, electron microscopy, cytometry, and image analysis. Also, writing grant proposals, manuscript editing. Seeking position in industry, government, academia. Box 216, SCIENCE.

Neurochemist/Biopsychologist, Ph.D., with 15 years experience in aging and Alzheimer’s disease research, excellent publication record and extensive teaching background, seeks challenging academic position. Box 217, SCIENCE.

ANAEROBIC PARASITE BIOCHEMIST—Applications are invited for a tenure-track position as assistant professor of biology with research experience and expertise in anaerobic parasite enzymology and biochemistry. Preference will be given to individuals who (i) have research experience and expertise in trichomonadal enzymeology and biochemistry, (ii) are willing to collaborate on hydrogenosomal biology research, (iii) initiate a research program on Entamoeba, and (iv) have experience with other parasitides. Send curriculum vitae, current reprints, research interest, and arrange to have three letters of recommendation sent before 25 November 1989 to: Dr. Donald G. Lindmark, Department of Biology, Columbia State University, East 24th and Euclid Avenue, OH 44115. Equal Opportunity Employer, M/F.

POSITIONS OPEN

ANALYTICAL CHEMIST. Applications are invited for a tenure-track position beginning fall 1990 at the assistant professor level in the Department of Chemistry at Connecticut College. The department offers an ACS-certified major in chemistry and also awards the B.A. degree in biochemistry. Excellent teaching and research equipment is available, including high-field NMR. Primary teaching responsibilities include courses in analytical chemistry, biochemistry, and an elective course for nonscience majors. The successful candidate will be expected to develop an active research program in which undergraduate research is a prominent feature of the program. A Ph.D. degree is required. A doctoral dissertation in a field other than the above will be accepted. Send curriculum vitae, letter of recommendation, and three letters of recommendation by 1 December 1989 to: Professor Bruce R. Branchini, Department of Chemistry, Connecticut College, New London, CT 06320.

Positions are available immediately:

ASSISTANT PROFESSOR, PHARMACOLOGY AND MOLECULAR BIOLOGY, SUNY HEALTH SCIENCE CENTER AT SYRACUSE

We invite applications for a tenure-track assistant professor position. Outstanding candidates in all areas of biochemistry and molecular biology, including molecular structure and function, will be considered. Applicants must have a Ph.D. in biochemistry or related field obtained within the last 2 years, demonstrated research productivity, and a commitment to excellence in teaching medical and graduate students. Send letter of application, curriculum vitae, and names of three references by 1 March 1990 to: Dr. Harvey S. Penefsky, Chair, Search Committee, Department of Biochemistry and Molecular Biology, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210. Review of applications will begin on 1 March 1990.

POSITIONS WANTED

ASSISTANT PROFESSOR.

To participate in teaching medical and graduate students and to study cellular regulation in autoimmune diseases, particularly intestinal immunoregulation by cytokines. Requires experience in cellular immunology, cell isolation, cell culture, T cell hybridoma and cytokine assays, in situ hybridization, and general immunomethods, particularly as these apply to the study of inflammatory bowel disease. To participate in developing new cytokine assays and to initiate independent studies on the regulatory effects of cytokines at mucosal sites. Position available immediately. Preference will be given to Ph.D. in Immunology and more than 2 years of postdoctoral experience required. Salary range $35,000 to $40,000 per year. Reply with curriculum vitae including three references by 1 January 1990 to: Charles O. Elson, M.D., Director, Division of Experimental Immunology, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210. Deadline for receipt of resumes: 5 January 1990.

Assistant Professor, biochemistry. Applications are invited for a tenure-track position in biochemistry at SUNY Health Science Center, Syracuse. Candidates must have completed the Ph.D. and postdoctoral experience in biochemistry. In addition, the candidates should have a demonstrated research record and the ability to secure research funds.

Assistant Professor, biochemistry. Applications are invited for a tenure-track position in biochemistry at SUNY Health Science Center, Syracuse. Candidates must have completed the Ph.D. and postdoctoral experience in biochemistry. In addition, the candidates should have a demonstrated research record and the ability to secure research funds.
positions open

asistant professor in behavioral neuroscience: search reopened. the neuroscience department at princeton university anticipates a position for the fall of 1990. the position involves teaching and research and is open to any area of neuroscience with a role in behavior or function. send curriculum vitae and three letters of recommendation to: chair, neuroscience search committee, code b, department of psychology, princeton university, princeton, nj 08544-1014. deadline 1 december 1989. princeton university is an equal opportunity/affirmative action employer.

asistant/associate professor medical college of ohio

the department of surgery, medical college of ohio, is searching for a g.i. (preferably hepatic) physiologist. tenure-track position with opportunity for independent research program and address inquiries (please include curriculum vitae) to: neil r. thomford, m.d., chairman, department of surgery, medical college of ohio, p.o. box 10008, toledo, oh 43699-0008. the medical college of ohio is an equal opportunity employer.

asistant or associate professor bacteriology/rhizosphere biology

the university of arizona invites applications for a tenure-track position of associate professor with both research (75%) and teaching (25%) responsibilities. the appointee is expected to develop a creative research program on the interacting bacteria on plant health; the specific area of research is unrestricted. this position is one of several devoted to building a strong research group focusing on elucidating the basic mechanisms of how microorganisms influence plant growth and development through their direct or indirect effects on plants and/or other organisms in the rhizosphere. deadline is 1 may 1989 or until suit-
able candidate is found. submit a letter of application stating career goals, reprints, and four letters of recommendation to: j. d. van etten (602-621-9355), department of plant pathology, forbes 104, university of arizona, tucson, az 85721. an affirmative action/equal opportunity employer.

asistant/associate professor of biomedicinal chemistry

the biomedicinal chemistry department at the school of pharmacy at the university of maryland at baltimore invites applications for a tenure-track position in the area of drug metabolism/chemical toxicology/design. candidates will be qualified to carry out molecular-level studies on the interactions of small molecular weight agents and/or macromolecules. areas of interest include mechanisms of drug biotransformation reactions and bioactivation of xenobiotics. relevant postdoctoral training is desired. excellent background in molecular modeling and design and teaching of biomedicinal chemistry or medicinal chemistry at the undergraduate and graduate levels is an asset. candidates are expected to attract external funding and establish an independent research program. applications should include a complete curriculum vitae, a summary of research plans, and three letters of reference, and should be sent to: dr. patrick calley, department of biomedicinal chemistry, university of maryland at baltimore, 20 north pine street, baltimore, md 21201. an equal opportunity/affirmative action employer.

The university of california, san diego, department of chemistry, is interested in recruiting an outstanding faculty member at the associate or full professor level in biochemistry or physical chemistry. all applications received through 5 november 1989 will be given thorough consideration. candidates must have a ph.d. and demonstrated ability to teach at the undergraduate and graduate levels. salary and rank will be commensurate with qualifications and experience. the position is expected to fall on or before 1 july 1990. the university of california pays scale. candidates should send curriculum vitae, a list of publications, reprints of up to five representative papers, a summary of research plans and names and addresses of three references to: department of chemistry, university of california, san diego, la jolla, ca 92039-0332. the university of california is an equal opportunity/affirmative action employer.

positions open

biochemistry—recent ph.d. in biochemistry for tenure-track position at associate professor level starting 1990. teaching load includes laboratory course in biochemistry, and participation in the development of a new undergraduate biochemistry program plus a selection of other courses. candidates should have a strong record of teaching in a liberal arts context. establishment of a research program and involvement of students in that program is expected. initial screening will be concluded by 4 december 1989. candidates should send a letter of recommendation to: dr. nelson sartorius, department of chemistry, willmenter university, springfield, illinois 62704. an equal opportunity/affirmative action employer.

biochemistry and physical chemistry/inorganic chemistry—the chemistry department of williams college anticipates authorizes a new tenure-track position at the assistant professor level for fall 1990. the candidate should have a ph.d. (postdoctoral experience is preferred) and a strong commitment to teaching at the undergraduate level and developing a productive research program. the initial teaching assignments for the biochemist will largely be courses in biochemistry and for the inorganic chemist will include both inorganic chemistry and quantum chemistry. additional assignments for both will be from other courses within the curriculum. candidates should have a strong background in the discipline and the ability to teach across the curriculum. appointment at a senior level is possible under special circumstances. williams college is a highly selective, liberal arts college with approximately 1,236 faculty and 1,950 undergraduates, located in northwestern massachusetts. the chemistry department, which has 2 tenure-track faculty members and 2 to 3 majors each year, is accredited by the acs and has excellent facilities for teaching and research. candidates should submit a letter of interest, a brief description of research interests and plans, curriculum vitae, and recent research publications to: dr. lawrence j. kaplan, chairman, department of chemistry, williams college, williamstown, ma 01267, by 30 december 1989. an equal opportunity/affirmative action employer.

biochemistry faculty position—the department of chemistry at the university of texas at austin invites applications for a position at the assistant professor level. we are seeking outstanding candidates with research interests that utilize modern techniques in molecular genetics. a ph.d. in biochemistry is required; applications from individuals with 1 to 3 years of postdoctoral experience are encouraged. the successful candidate will be expected to establish an independent research program and to teach courses in physical chemistry. the successful candidate is expected to work in the area of physical chemistry as defined by light scattering. the appointment is expected to begin in fall of 1990. the position is tenure-track. a full-time research associate position is available. send curriculum vitae and three letters of recommendation to: dr. edward bollin, biochemistry search committee, department of chemistry, university of texas, p.o. box 7806, austin, tx 78713. the university of texas at austin, austin, tx 78712. review of applications will begin 30 november 1989. an equal opportunity/affirmative action employer.

biological sciences: ecologist. tenure-track position at the assistant professor level. responsibilities include teaching ecology in the core curriculum and at an advanced undergraduate level. excellence in teaching and development of an active research program is of importance. competence in systems and a background in population biology are essential. experience in plant biology preferred.

positions open
BIOLGIST: Cornell College, a private liberal arts college located in Mount Vernon, Iowa, plans to make a full-time tenure-track faculty appointment in its Department of Biology at the ASSISTANT PROFESSOR level beginning in the fall of 1989. Teaching responsibilities include either genetics, developmental biology, introductory biology, and supervision of student research. The candidate should be broadly trained in biology and have a specialization in molecular biology. Ph.D. required postdoctoral experience preferred. Send curriculum vitae and three letters of reference to: Dr. Paul Christiansen, Chair, DEPARTMENT OF BIOLOGY, CORNELL COLLEGE, MOUNT VERNON, IOWA 52314.

BIOLGIST: Rhodes College is a Liberal Arts College with 1350 students and a student/faculty ratio of 12:1. Located in midtown Memphis, Rhodes College and the Biology Department enjoy close ties with Memphis State University, U.T. Memphis Medical School, and St. Jude Children's Research Hospital. Rhodes College is an Equal Opportunity Employer and encourages applications from qualified women and minority candidates.

BIOLGIST/PROFESSOR OF BIOTECHNOLOGY: The Division of Human Genetics at the University of Maryland Cancer Center is seeking a clinical cytogeneticist to provide cytogenetic support for a large oncology service with a major program in adenocarcinoma research and treatment. The applicant should be a Ph.D. or M.D. with at least one year of postdoctoral experience. Applications are invited which contain a curriculum vitae, a statement of research interests, and three letters of recommendation. Send three letters of recommendation to: Dr. John Olsen, Chairman, DEPARTMENT OF BIOLOGY, RHODES COLLEGE, MEMPHIS, TN 38112.

BIOLGIST/DEPARTMENT OF BIOTECHNOLOGY: Indiana University-Purdue University at Indianapolis invites applications for two tenure-track positions in the Department of Biology. Applicants for the positions should have a Ph.D. and postdoctoral training. A history of grant support is highly desirable. Each successful candidate must develop an active, externally funded research program; contribute to the continued development of undergraduate and graduate programs in undergraduate and graduate teaching. The Department of Biology is scheduled to occupy modern research facilities in a newly constructed building within two years. The successful candidate will have expertise in recombinant DNA technology with application to mammalian systems.

PROFESSOR OF BIOTECHNOLOGY: The successful candidate will apply biophysical techniques to the study of protein structure and function. Applicants should submit a curriculum vitae, a statement of their research interests, reprints of recent publications, and four letters of recommendation to: Dr. Charles Schauf, Professor and Chairman, DEPARTMENT OF BIOTECHNOLOGY, UNIVERSITY SCHOOL OF SCIENCE, 1125 East 38th Street, Indianapolis, INDIANA 46205.

RESEARCH BIOTECHNOLOGIST: The successful candidate will have expertise in recombinant DNA technology with application to mammalian systems.

PROFESSOR OR ASSOCIATE PROFESSOR OF BIOTECHNOLOGY: The Department of Botany at the University of British Columbia, Vancouver, Canada, is seeking one or two new faculty members in biotechnology. Applicants should have a strong research program and be involved in teaching and graduate supervision. Applicants should submit a letter of interest, curriculum vitae, and three letters of recommendation to: Dr. Ralph C. F. White, Chair, Department of Botany, University of British Columbia, Vancouver, British Columbia, Canada, V6T 1Z4, before 15 December 1989.

RESEARCH ASSOCIATE PROFESSOR: The Division of Human Genetics at the University of Maryland Cancer Center is seeking a research associate professor for a position in adenocarcinoma research and treatment. The applicant should be a Ph.D. or M.D. with at least one year of postdoctoral experience. Applications are invited which contain a curriculum vitae, a statement of research interests, and three letters of recommendation. Send three letters of recommendation to: Dr. John Olsen, Chairman, DEPARTMENT OF BIOLOGY, RHODES COLLEGE, MEMPHIS, TN 38112.

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The continued expansion of our Central Research facilities at Groton, CT has created a need for qualified PhD and BS/MS research scientists in our Drug Metabolism Department.

**RESEARCH SCIENTISTS (PhD)** - Will be responsible for design and conduct of investigations into the metabolism and disposition of experimental drugs in animals and humans. Will interact in a project area with a multidisciplinary team including chemists, biologists and clinicians where drug metabolism input is essential to the discovery and development of new drugs. Will work with some of the most advanced equipment and support systems available. Publication of original research encouraged.

Requires a PhD in Pharmacology, Biochemistry or Pharmaceutical Chemistry, preferably with postdoctoral training or employment. Practical experience with bioanalytical methods is essential. Working knowledge of pharmacokinetics and drug biotransformation is recommended. Must be creative and possess superior interpersonal and communication skills.

**RESEARCH ASSISTANTS (BS/MS)** - Responsibilities for this position include: the development and utilization of analytical chromatographic methods for monitoring drugs and metabolites in biological samples; isolation and identification of metabolites and utilizing instrumental methods; collection of biological samples, and use of *in vivo* and *in vitro* techniques; utilization of electronic data systems for acquiring and processing data. Applicants should possess a BS or MS degree in Chemistry, Biochemistry, or the biological sciences and have an interest in the analysis, disposition, and metabolism of drugs.

These positions offer a superb professional environment in an attractive southeastern Connecticut shore area, complemented by a competitive salary/benefit/relocation package. Please send a resume and description of research interests to: Dr. David G. Burnett, Employee Resources, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
Positions Open

Chair, Molecular and Human Genetics
Emory University

The School of Medicine seeks a Professor and Chairperson for a new Department of Molecular and Human Genetics. Emory has an established genetics research group, and a National Institutes of Health (NIH) grant in Genetics and Molecular Biology. The School of Medicine is now forming a new basic medical science department, with several additional positions and significant new laboratory space. Nominations or curriculum vitae will be considered until 1 December 1989 or until the position is filled. Please submit them to: Dr. Robert B. Gunning, Chairman, Search Committee, 202 WHSCAB, Emory University School of Medicine, Atlanta, GA 30322. Emory University is an Equal Opportunity Employer.

Chairperson, Department of Pharmacology
The College of Medicine, Albert B. Chandler Medical Center, of the University of Kentucky, is searching for an individual strongly committed to academic preeminence to provide professional and academic leadership for the educational and research programs of the Department of Pharmacology. The Department has a long tradition of excellence in research and education, with particular emphasis in neuropharmacology. The Department invites applications and nominations for an endowed Chair in Pharmacology to develop Commonwealth Centers of Excellence in related areas of science that enhance the academic environment. Position is expected to begin July 1, 1989. Applications and nominations should be sent to: Dr. R. S. Porter, Chairman, Search Committee, 302-B, November 1989 with a curriculum vitae and a list of at least three references to: John T. Slevin, M.D., Chair, Search Committee for Chair of Pharmacology, Department of Pharmacology, University of Kentucky College of Medicine, Lexington, KY 40536-0084. The University of Kentucky is an Affirmative Action/Equal Opportunity Employer.

Chairperson, Nuclear Engineering
The Department of Nuclear Engineering at the University of Michigan is seeking applications and nominations for the position of Department Chairperson. The candidate should hold a Ph.D. degree or equivalent in nuclear engineering. Preference will be given to candidates with a related field and be nationally recognized in his or her field. Submit applications, resumes and the names of three references to: Dr. Ronald Fleming, Chairman, Committee for Chair Search, Chairperson Search Committee, The University of Michigan, 3034 Phoe- nix, Ann Arbor, MI 48109-2100.

A Non-discriminatory/Affirmative Action Employer.

Cooperative Extension Specialist Position
Plant Biotechnology
The University of California
At Berkeley

The Department of Plant Biology invites applications for a Cooperative Extension Specialist in the area of plant biotechnology. The appointee will be expected to develop a research program which deals with applied aspects of plant biotechnology and will be expected to serve as the liaison between the department and organizations, such as industry, governmental, and public interest groups, who have an involvement with the area of plant biotechnology. Other responsibilities include the development of educational programs, identifying issues and research needs in biotechnology and the preparation of educational materials and public interest groups with an ongoing interest in plant biotechnology. Applicants should have a Ph.D. degree in an appropriate field, such as molecular biology, plant molecular biology, microbiology, plant physiology and an understanding of the practical aspects of plant biotechnology. A demonstrated ability to carry out an appropriate applied research program is encouraged. Applications are expected. Applications should be submitted to: Dr. Robert Mappin, Director, University of California, Berkeley, CA 94720. Closing date for applications is 31 December 1989, and it is anticipated the position will be filled by 15 June 1990. The University of California is an Equal Opportunity/Affirmative Action Employer.

Positions Open

Chemist
Tenure-track, Bennington College, September 1990. Scientist with broad interests, commitment to liberal arts, creativity, and the liberal curriculum, to develop teaching program including general, organic, more advanced chemistry. Ph.D. required. Computer experience desirable. Rank open for two courses/term and possible tutorials (about 30 students total), educational counseling, supervision student research. Letter, résumé, three letters of reference to: Dr. Kenny Woods, Bennington College, VT 05201 by 1 December 1989.

Community Ecologist
Managed Areas Biologist
The Florida Natural Areas Inventory, a Natural Heritage Program of the Nature Conservancy, is a statewide database on the occurrence and management of rare and endangered species and habitat. The Florida Natural Areas Inventory is a component of the University of Florida’s natural resource management operations and has a long tradition of excellence in conservation biology, vegetation classification, sampling, and conservation biology. The Managed Areas Biologist position is responsible for gathering and providing information on protected lands. Both: Graduate degree in biological sciences; broad Florida experience preferred. Send cover letter, curriculum vitae, and names of three references to: James W. Muller, Florida Natural Areas Inventory, 254 East 6th Avenue, Tallahassee, FL 32303 by 6 November 1989. Equal Opportunity Employer.

Dairy Science: Postdoctoral Assistant
The Dairy Science Department of Mississippi State University (MSU) (Extension Forestry Station) invites applications for a non-tenure-track research position. Primary responsibilities—full-time research in a area of basic and applied research, including methodology and standardization function (computer assisted) and surface, food technology. Opportunity to acquire new techniques, e.g., HPLC, affinities and monoclonal antibodies. Minimum qualifications: Doctorate in biotechnology and food science (acquired in last 4 years) with strong preference for chemistry. Applications accepted until suitable candidate is found. Submit application and three letters of recommendation to: Dr. Zahurul Haque, Associate Professor, Mississippi State University, Drawer D, State College, MS 39762. Mississippi State University is an Affirmative Action/Equal Employment Opportunity Employer.

Environmental Program Administrator
Salary: $3515 to $5790 per month (D.O.Q.)

Newly created position will plan and direct the enforcement and administration of regulated environment programs within the department. Requires advanced degree in environmental science or related science, such as chemistry, biology, or other science. Interactions with general public and regulatory agencies. Experience in a similar field is desirable. Equal Employment Opportunity/Affirmative Action Employer.

Environmental Program Administrator

Developmental Biologist

The Department of Biology at the College of St. Catherine seeks a developmental biologist to fill a tenure-track position at the level of assistant professor, beginning in fall 1990. Ph.D. is required and postdoctoral experience preferred. The successful candidate will be a broadly trained biologist who demonstrates excellence in research and teaching and has the potential to develop a research program in which undergraduates can participate. A Ph.D. in developmental biology, histology, general biology, or cell biology, or a course in his or her area of expertise. Send curriculum vitae, transcripts, three letters of recommendation, and a statement of research and teaching interests to: Deborah Mascioli, Chair, Department of Biology, The College of St. Catherine, 404 Randolph Avenue, St. Paul, MN 55105. Equal Opportunity Employer. Application deadline is 15 November 1989.

Director
Office of Environmental and Safety (Formerly Office of BioSafety) Centers for Disease Control (CDC)
Atlanta, Georgia

($50,000 to $75,000)

The Director plays a lead role in shaping and implementing CDC’s health and safety policies. He/She is responsible for developing and implementing a comprehensive occupational health and safety program for CDC. The Program emphasizes occupa- tional illnesses or injuries; promotes healthy, safe work practices. Applicants are sought from such fields as bio- safety, health sciences, industrial hygiene, microbiology, occupational safety, public health, and veterinary medicine. All applicants must have a minimum of 3 years of experience in the administration of programs related to occupational health and safety, with a background of education/experience demonstrating a comprehensive knowledge of occupational safety and health regulations in a biomedical, research, or other scientific setting. Interested applicants should submit résumé by 15 De- cember 1989 to: Joseph McDade, Chair, Search Committee Building 1 Room 6108 1600 Clifton Rd., N.E. Atlanta, GA 30333 Telephone: 404-639-3967

CDC is an Equal Opportunity Employer. CDC maintains a smoke-free work environment.

Director
Scientific Data Center

The University of Colorado seeks candidates for a position as Director of the Joint Institute for Laboratory Astrophysics (JILA). The candidate must be a Ph.D. scientist who will initiate and plan projects and actively interact with experimentalists. Additional funding will be critically review and evaluate data in broad-based, diverse fields related to the institute’s research programs, including atomic and molecular processes, lasers, nonlinear optics, gravitation, and metrology. Responsibilities will include: supervising a staff of two or three people; supervision of the compilation, evaluation, and publication of data projects and reviews; development of computer-based data compilations for wide dissemination; submission of proposals for specific projects; and interactions with scientific user groups and the fellows, scientists, and visitors at JILA. Minimum qualifications include a Ph.D. in physics, chemistry, or astronomy; minimum of 5 years of experience related to one or more of the broad research areas of JILA specified above; and a broad range of interests and knowledge of the scientific literature. The successful candidate will be expected to be involved in ongoing research. Salary range is $40,000 to $60,000. Screening of applicants will begin on 1 January 1990. Send résumé, with names of three references and a proposed Data Cen- ter projects to: Chairman, Joint Institute for Labora- tory Astrophysics, Campus Box 440, University of Colorado, Boulder, CO 80309-0440

The University of Colorado at Boulder has a strong institutional commitment to the principle of diversity. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, members of ethnic minor- ities, and disabled individuals.
**POSITIONS OPEN**

Departments of Pediatrics and Human Genetics, University of Michigan, are seeking a DIRECTOR of the Division of Pediatric Genetics and CHIEF of the Genetics Service at Mott Children's Hospital. We are seeking individuals with medical genetics experience, with a strong research program, certification in Pediatrics and in Medical Genetics, and experience in training postdoc-
toral and predoctoral students. Send curriculum vitae, statement of research interests, and names of three references to: Thomas D. Gelehrter, M.D., Department of Human Genetics, University of Michigan Medical School, Ann Arbor, MI 48109-0618. An Equal Opportunity/Affirmative Action Employer.

**ENVIRONMENTAL CHEMIST**

Exxon Biomedical Sciences, Inc., has an immediate opening for a qualified individual specializing in environ-
mental chemistry. The successful candidate will have a Ph.D. in environmental chemistry or a related field, and 1 to 3 years of research and/or molecular biological experience. Send curriculum vitae, statement of research interests, and names of three references to: Christine Ramos, Human Resources.

**FACULTY POSITION IN DEVELOPMENTAL BIOLOGY**

The Department of Biology at the University of Virginia invites applications from developmental biologists who will be able to work in cellular and molecular biological approaches to elucidate fundamental aspects of development. The successful candidate will be evaluated on the basis of research qualifications, teaching excellence, and general suitability for the University of Virginia. Send curriculum vitae, statement of research plans, and names of three references to: Dr. Robert F. W. Lovegrove, Department of Biology, University of Virginia, Charlottesville, VA 22901. Applications will be reviewed beginning 1 November 1989. Equal Opportunity/Affirmative Action Employer.

**THE FELS INSTITUTE FOR CANCER RESEARCH AND MOLECULAR BIOLOGY**

**MOLECULAR BIOLOGISTS—Tenure-track positions.** All areas of cellular and molecular biology and genetics are of interest. Preference will be given to individuals who have a background in cancer biology. Send curriculum vitae, a brief statement of research plans, and names of three letters of recommendation to: Dr. Gerald Litwack, Deputy Director, The Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity Employer.

**MOLECULAR BIOLOGISTS-Tenure-track positions.** All areas of molecular biology and genetics are of interest. Preference will be given to individuals with a background in cancer biology. Send curriculum vitae, a brief statement of research plans, and names of three letters of recommendation to: Dr. Gerald Litwack, Deputy Director, The Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS—Postdoctoral positions are available in areas of molecular biology and genetics, biochemistry, and cell biology. Send curriculum vitae, a brief statement of research plans, and names of three letters of recommendation to: Dr. Gerald Litwack, Deputy Director, The Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity Employer.**

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**Biochemical Research**

**Senior Scientist**

Ciba-Geigy Pharmaceuticals Division invests more than a million dollars a day to support innovative research and development of new products that help enhance the quality of life.

Your challenging project in our 100-acre headquarters complex in Summit, New Jersey will involve developing new assays in exploratory areas of inflammation and cardiovascular research, specifically a second messenger assay program to interface with ongoing receptor and immunossay studies in the Biochemical Profiling group in the Research Department. You will supervise two non-Ph.D. Scientists. Credentials should include a Ph.D. in Pharmacology or Biochemistry, 2-3 years postdoctoral experience with extensive knowledge of PI turnover and cyclic nucleotide assays and excellent oral and written communication skills. Some experience with receptor binding assays and tissue culture is an asset.

We offer competitive salaries, excellent benefits, and opportunities for advancement. Please send resume with salary history and requirements to: A1 Aronson, Staffing Center, Ciba-Geigy Corporation, Pharmaceuticals Division, Dept. 310, 556 Morris Avenue, Summit, New Jersey 07901. We Are An Equal Opportunity Employer M/F/V/H.

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**UNIVERSITY OF TENNESSEE, KNOXVILLE**

**TWO ASSISTANT PROFESSOR POSITIONS IN MOLECULAR BIOLOGY / GENETICS**

**MOLECULAR BIOLOGIST - MICROBIOLOGY DEPARTMENT**

**QUALIFICATIONS:** Doctoral degree and at least two years postdoctoral experience in Microbiology or closely allied biological science; demonstrated research productivity in molecular biology and potential excellence in teaching.

**RESPONSIBILITIES:** Graduate and undergraduate teaching in Microbiology/Molecular Biology, establishment of a productive independent research program, and academic responsibilities normally associated with a tenure-track faculty position.

**STARTING DATE:** August 1, 1990.

**Applications should submit a letter of interest accompanied by a curriculum vitae, a description of the applicant's research program and career objectives, and arrange for letters of reference to be sent by three individuals who can evaluate the applicant's qualifications for the position. Applications from women and minorities are especially invited. All material should be sent to: Dr. Stuart Riggsby, Chairman, Search Committee, Department of Microbiology, University of Tennessee, Knoxville, TN 37996-0845. Nominations should be made as soon as possible; evaluation of applications will begin in December, 1989.**

**MOLECULAR GENETICIST - ZOOLOGY DEPARTMENT**

**QUALIFICATIONS:** Doctoral degree and at least two years postdoctoral experience; training and research focus in genetics and molecular biology; demonstrated research productivity; potential excellence in teaching; research interests in molecular genetics of Drosophila or Mus preferred, but not required, to complement existing programs.

**RESPONSIBILITIES:** Graduate and undergraduate teaching in basic and advanced genetics and molecular biology, maintenance of a productive externally supported research program, and other academic responsibilities normally associated with a tenure-track faculty position.

**STARTING DATE:** August 1, 1990.

**Applications should submit a letter of interest and curriculum vitae, a description of the applicant's research program and objectives, and arrange for letters of reference to be sent by three individuals who can evaluate the applicant's qualifications for the position. Applications from women and minorities are especially invited. All material should be sent to: Dr. Mary Ann Handel, Chairman, Search Committee, Department of Zoology, University of Tennessee, Knoxville, TN 37996-0810. Applications should be made as soon as possible; evaluation of applications will begin in December, 1989.**

*The University of Tennessee is an EEO/AA/Title IX/Section 504 employer.*

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20 OCTOBER 1989
RICE UNIVERSITY
DEPARTMENT OF BIOCHEMISTRY AND CELL BIOLOGY

Four tenure-track faculty positions (all levels) in cellular and molecular biology and cellular neuroscience beginning between January 1991 and September 1991. Clear evidence of excellence in research is essential. Review begins January 1990, and positions will remain open until filled. Send curriculum vitae, past/future research plans, and three letters of reference to: K. S. Matthews, Chair, Search Committee, Department of Biochemistry and Cell Biology, Rice University, Houston, TX 77251.

Rice University is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are encouraged to apply.

FACULTY POSITIONS ASSISTANT/ASSOCIATE PROFESSOR
DEPARTMENT OF BIOCHEMISTRY AND CELL BIOLOGY
UNIVERSITY OF ILLINOIS
COLLEGE OF MEDICINE AT CHICAGO

Applications and nominations are invited for tenure-track faculty positions to be filled in the 1990 academic year. We are seeking candidates who are using modern molecular biological approaches to investigate problems in the general area of bioregulation including signal transduction/membrane interaction, growth control, and cell differentiation. Exceptional applicants in other areas will also be considered. Applicants should have a Ph.D., postdoctoral experience, a strong record of research accomplishments, and demonstrable potential for the development of an independent research program. At the tenured level, applicants must have a strong record of research accomplishment. The Department of Biochemistry and Cell Biology has grown in the last decade and currently houses several new faculty in the areas of gene expression and membrane biology in recent years. The department and college have recently acquired facilities that include metabolic acid and protein synthesis and sequencing. Applications should include curriculum vitae, a summary of current and future research plans, and the names of at least three individuals for references. Application deadline is 1 December 1989. Send applications or nominations to: Robert V. St SORT, Department of Biochemistry and Cell Biology (MC 536), University of Illinois College of Medicine at Chicago, 1853 West Polk Street, Chicago, IL 60612. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS IN PHARMACOLOGY
THE DEPARTMENT OF PHARMACOLOGY AT THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER AT DALLAS SEKS APPLICANTS FOR TENURE-TRACK POSITIONS AT THE LEVEL OF ASSISTANT OR ASSOCIATE PROFESSOR. APPLICANTS MUST HAVE A RELEVANT PH.D. OR M.D. DEGREE AND POSTDOCTORAL TRAINING AND MUST SHOW EVIDENCE OF A FIRM COMMITMENT TO A CAREER IN INDEPENDENT RESEARCH. WE ARE PARTICULARLY INTERESTED IN APPLICANTS WHO PLAN TO APPLY TECHNIQUES OF CELLULAR OR MOLECULAR BIOLOGY TO FUNDAMENTAL PROBLEMS OF RELEVANCE TO HUMAN DISEASE. RESPONSIBILITIES INCLUDE TEACHING GRADUATE AND/or MEDICAL STUDENTS AFTER THE FIRST YEAR OF EMPLOYMENT. SEND CURRICULUM VITAE, LIST OF PUBLICATIONS, AND BRIEF DESCRIPTION OF PROPOSED RESEARCH TO: ALFRED G. GILMAN, CHAIRMAN, DEPARTMENT OF PHARMACOLOGY, UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER AT DALLAS, 5323 HARRY HINES BOULEVARD, DALLAS, TX 75235-9041. AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

FACULTY POSITION IN BIOCHEMISTRY
ST. LOUIS UNIVERSITY

Applications are invited for a tenure-track position in Biochemistry at the Saint Louis University School of Medicine. Candidates with a Ph.D. or M.D. degree, with a strong background in biochemical research and with demonstrated potential for independent research in the areas of biochemistry and molecular biology, are encouraged to apply. Applicants should send curriculum vitae, a summary of research plans, and names of three references to: John S. Cole, Chair, Search Committee, Department of Biochemistry, St. Louis University School of Medicine, 1400 South Grand Boulevard, St. Louis, MO 63104. Applications will be accepted until the position is filled. The University of St. Louis is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN PHYSIOLOGY-TULANE UNIVERSITY

Applications are invited for tenured-track appointments at all ranks. Candidates should hold the Ph.D. or M.D. degree, have a record of excellence in research, and be committed to teaching of medical and graduate students. Research interests (genetics, biochemistry, membrane transport, membrane structure, etc.) are encouraged. Applicants must be prepared to teach a letter indicating continued interest. Send a resume, a description of research program, and names of at least three references to: Dr. L. Gabriel Navar, Chair, Search Committee, Department of Physiology, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112. Tulane University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS DEVELOPMENTAL BIOLOGY/GENETICS
PRINCETON UNIVERSITY

The Department of Biology at Princeton University invites applications for tenure-track positions in the areas of developmental biology and developmental genetics. Candidates should have a Ph.D. degree and research experience in the area of embryology. Appointments are available in either junior or senior level positions. Applicants should send curriculum vitae, a summary of research interests and plans, and names of at least three references. Princeton University is an Equal Opportunity/Affirmative Action Employer.

Developmental Biology Search Committees
Department of Biology
Princeton University
Princeton, NJ 08544

FACULTY POSITIONS
THE UNIVERSITY OF ILLINOIS AT CHICAGO

The newly-formed Basic Science Department of Microbiology at the University of Texas Medical School at Houston invites applicants for both tenure-track and tenured faculty positions at the level of assistant, associate, or full professor. The initial area of recruitment is in: prokaryotic microbial physiology, microbial genetics, or molecular microbiology. Candidates must have the Ph.D. and/or the M.D. degree. Postdoctoral research experience is essential for consideration of a prospective assistant professor. Applicants for associate or full professorships must have demonstrated high quality research performance. Successful applicants will be expected to teach medical students, graduate students, and developed and continue on a career, high level, high visibility research program, competitive at the national level. Please send curriculum vitae and a statement of teaching and research interests along with the names of four references to: Dr. Samuel Kaplan
Department of Microbiology
University of Texas Health Science Center at Houston
P.O. Box 20708
Houston, TX 77225

The University of Texas Health Science Center is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

FACULTY POSITIONS
UNIVERSITY OF TEXAS MEDICAL BRANCH AT HOUSTON

Applications are invited for a tenure-track position assistant professor beginning Fall 1991 in the Department of Cell Biology and Molecular Genetics. The position involves teaching both undergraduate and graduate courses. Applicants must have a Ph.D. degree and postdoctoral experience. Postdoctoral experience is preferred, but not required. The department offers a complete preclinical curriculum and a well-supported clinical research program. The successful candidate will be expected to develop an active research program in some area of molecular biology. Applications should be sent to: Dr. Bruce W. Branchini, Department of Cell Biology, University of Texas Medical Branch, Galveston, TX 77550.

UNIVERSITY OF ILLINOIS AT CHICAGO

Applications are invited for tenure-track positions at the assistant professor level beginning Fall 1991 in the Department of Cell Biology and Molecular Genetics. The successful candidate will be expected to develop an active research program in some area of molecular biology. Applications should be sent to: Dr. Richard L. Davidson, Department of Genetics, University of Illinois at Chicago, 808 South Wabash Avenue, Chicago, IL 60612.

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

FACULTY POSITION PLANT MOLECULAR BIOLOGY
THE DEPARTMENT OF BOTANY, IOWA STATE UNIVERSITY, invites applications for a tenure-track position of assistant professor. Development of a strong research program in the area of molecular biology is expected. Teaching responsibilities will include a graduate course in plant molecular biology and participation in undergraduate teaching. Candidates must have a Ph.D. or equivalent. Generous start-up support possible. Successful candidate will join an active program in molecular biology. Applications must include curriculum vitae, statements of research interests and teaching philosophy, and reprints of selected publications. Applications and at least three letters of recommendation should be sent to: David C. Glenn-Lewin, Chair, Department of Botany, Iowa State University, Ames, IA 50011 by 15 December 1989.

Women, minorities and members of all underrepresented groups are strongly encouraged to apply.

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

FACULTY POSITION
GRADUATE DEPARTMENT OF CHEMISTRY
UNIVERSITY OF CONNECTICUT

Applications are invited for a tenure-track position at the assistant professor level beginning Fall 1991 in the Graduate Department of Chemistry at the University of Connecticut. The successful candidate will be expected to develop an active research program in some area of organic or biochemistry. The successful candidate will be expected to develop an active research program. Applications and at least three letters of recommendation should be sent to: Dr. Jean R. Branchini, Department of Chemistry, University of Connecticut, Storrs, CT 06269.

UNIVERSITY OF MICHIGAN

Applications are invited for a tenure-track position at the assistant professor level beginning Fall 1991 in the Department of Ophthalmology. The successful candidate will be expected to develop an active research program in some area of ophthalmology. The successful candidate will be expected to develop an active research program. Applications and at least three letters of recommendation should be submitted to: Dr. Paul G. Lichter, M.D., Department of Ophthalmology, University of Michigan, 400 State Street, Ann Arbor, MI 48105. An Equal Opportunity/ Affirmative Action Employer.

FACULTY POSITION PHYSIOLOGY
THE UNIVERSITY OF UTAH

Applications are invited for a tenure-track position assistant professor beginning Fall 1991 in the Department of Physiology. The Department of Physiology offers both undergraduate and graduate programs in physiology. Applicants must have a Ph.D. degree and postdoctoral experience. The successful candidate will be expected to develop an active research program in some area of physiology. Applications should be sent to: Dr. Charles A. Nemer, Department of Physiology, University of Utah, 50 N. Medical Drive, Salt Lake City, UT 84108.

The University of Utah is an Equal Opportunity/Affirmative Action Employer.
Director, Clinical Pathology

Parke-Davis Pharmaceutical Research, a division of Warner Lambert Company and a worldwide leader in the development, manufacturing and marketing of pharmaceutical, consumer and health care products, is currently seeking to fill a key position in the Pathology and Experimental Toxicology Unit in Ann Arbor, Michigan.

Reporting to the Vice President, PET, this senior position is directly responsible for the management of the Clinical Pathology section which includes Clinical Chemistry, Hematology, Immunotoxicology, Biochemical Toxicology and Flow Cytometry laboratories.

The preferred candidate will have a D.V.M., M.D. or Ph.D. degree; postgraduate training in Clinical Pathology, Pathology, Biochemistry or a related discipline; Board Certification in the specialty (i.e., ACVP, ASCP); and eight or more years of experience in a toxicology/pathology environment within the pharmaceutical industry. In addition to a substantial scientific background, the candidate will desire long-term growth potential, and possess excellent communication and management skills, as well as a strong drive to succeed. A significant research and publication record is also desirable.

Our modern, growing facilities are located adjacent to the University of Michigan in the midst of an outstanding living and working environment, and our compensation and benefits packages are highly competitive.

Interested individuals should forward their resume and salary requirements in confidence to: Human Resources Department, Box JDM - 10189, Parke-Davis Pharmaceutical Research, 2800 Plymouth Road, Ann Arbor, Michigan 48106-1047. “A Smoke-Free Work Environment”

PARKE-DAVIS
DIVISION OF WARNER LAMBERT COMPANY

“Equal Opportunity in Action”

Bio-Méga Inc., located in suburban Montreal, is a wholly owned subsidiary of Boehringer Ingelheim Canada. The company is dedicated to applied and basic research in various fields of drug discovery.

RESEARCH SCIENTISTS AND RESEARCH ASSOCIATES

A number of positions are available for highly motivated candidates to join the department of PHARMACOLOGY as part of a team of scientists dedicated to basic research and to the assessment of effects of biologically active molecules.

Qualifications:
Applicants for the position of Research Scientist should possess a Ph.D., in Pharmacology, preferably two years of post-doctoral training and familiarity with drug assessment protocols in laboratory animals. For the position of Research Associate, the applicant should possess a M.Sc. and a strong background in general pharmacology.

COMPUTATIONAL CHEMIST FOR COMPUTER-ASSISTED DRUG DESIGN

Candidate to join a team of dedicated scientists utilizing state-of-the-art techniques in the design of biologically active molecules in a multidisciplinary atmosphere.

Qualifications:
Ph.D. or M.Sc. in Chemistry with broad based experience in molecular modelling and computational chemistry is required. Understanding of medicinal chemistry is an asset. The individual should have a high degree of creativity and motivation to analyze and solve complex problems and be able to interact with the existing staff of chemists.

If interested, please submit your curriculum vitae with an introduction letter in confidence to: Mr. Jacques Roux, Director, Human Resources, Bio-Méga, Inc., 2100 Cunard Street, Laval (Québec) H7S 2G5 CANADA
Search Announced
Associate Provost and Associate Director for Academic Affairs
Carter Center of Emory University

The Carter Center of Emory University, an international, interdisciplinary, non-partisan institute combining study and analysis with the practical applications of scholarship, focuses its program activity on such fundamental issues as conflict resolution, human rights, agriculture, health, and governance within specific world regions (Africa, Latin America, the Middle East, the Soviet Union and the United States). The Center is a division of Emory University, equal in standing to the professional schools of the University. At its core are distinguished fellows and research associates who collaborate with one another and with President Jimmy Carter.

The position of Associate Provost and Associate Director for Academic Affairs is a newly established senior position at the Center, a dual appointment between the Carter Center and the University. The incumbent will provide academic leadership within the Center, will coordinate Center with University programs, and will contribute to the University’s growing emphasis on international programs.

Candidates should have an earned doctorate, a distinguished scholarly record appropriate to a senior faculty rank at Emory University, and significant administrative experience within a university or other non-profit setting.

Nominations and applications should be sent to the Carter Center Search Committee, Office of the Provost, Emory University, Atlanta, Georgia 30322. Letters of application will be held in strict confidence and should include a statement of interest, a curriculum vitae, and a list of three references. The Committee will begin screening applications on November 1, 1989, and continue until the position is filled. References will be contacted directly by the Committee after November 1, upon notification of applicants.

Emory University is an equal opportunity employer.

Abbott Laboratories, a successful provider of quality healthcare products and services worldwide, continues its commitment to top-quality management. Currently we have an opportunity for an experienced Toxicologist for our Division of Drug Safety Evaluation.

TOXICOLOGIST

Duties will include study design, management and reporting of both in-house and contracted studies. In addition, the successful candidate will be involved as liaison between Toxicology and other groups within the Corporation.

A PhD in Pharmacology or Toxicology and a minimum of 2 years experience are required. Good interpersonal skills as well as excellent abilities in communication via both oral and written presentations are a must. Knowledge of the drug development process and appropriate GLP’s are essential; board certification is desirable.

In addition to excellent salaries and a benefits package that includes profit sharing and a stock retirement plan, we offer a beautiful suburban location approximately 30 miles north of Chicago. For consideration, please send your resume with salary history to: Patricia Handy, Corporate Placement, Job #75000, Abbott Laboratories, 1 Abbott Park Rd., Abbott Park, IL 60064. (To facilitate handling your resume, please indicate Job Number on your cover letter or resume.) Abbott is an Affirmative Action Employer.

ABBOTT LABORATORIES

Quality Health Care Worldwide

1888-1989

Smith Kline and French Laboratories, a division of SmithKline Beecham, a worldwide leader in pharmaceutical research, is seeking a Flow Cytometry Specialist to join its cell sorter facility. This facility is involved with various stages of the drug discovery process. The facility is equipped with the latest state-of-the-art technology including a three laser Coulter Epics 753, a dual laser Coulter Epics 752, ACAS 470 interactive laser cytometer for adherent cells, up-to-date computers and other support equipment. The position requires a person with experience in flow or imaging systems and familiarity with computers.

The selected candidate will have:

- B.S. degree in the Biological or Biophysical Sciences or equivalent experience.
- Experience with flow cytometry or imaging systems and strong knowledge of computers.
- Tissue culture experience desirable.

Our new, state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. Smith Kline & French Laboratories provides a stimulating and challenging work environment with opportunities for professional and personal growth. We offer an attractive compensation and benefits package. For confidential consideration, please submit your C.V. to: Nancy Hasson, H0119, Smith Kline & French Laboratories, Research & Development, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

WALTER REED ARMY INSTITUTE OF RESEARCH

LIPOSOME RESEARCH
Drug Carriers and Vaccine Development

A temporary Research Investigator, Research Associate, or Postdoctoral position is immediately available for studying novel methods for targeting liposomes for drug delivery and vaccine development.

Salary is highly competitive ($30-35,000). Individuals with training in pharmaceutical, pharmacological, physiological, or biochemical disciplines are encouraged to apply. Prior research or training in liposome or drug carrier technology is not a necessary prerequisite.

The position will be funded by NOVA and the work will be carried out by WRAIR under a cooperative R & D agreement.

Applicants should submit a curriculum vitae to:

Dr. Carl R. Alving
Department of Membrane Biochemistry
Walter Reed Army Institute of Research
Washington, DC 20370-5100
DEPARTMENT CHAIR OF BIOLOGICAL SCIENCES
STATE UNIVERSITY OF NEW YORK AT BUFFALO

The Department of Biological Sciences at the State University of New York at Buffalo is searching for a Full Professor to build an outstanding research program and assume the position of Department Chair within one year of appointment. The starting date is negotiable and the successful candidate could begin as soon as September 1990. The Department presently consists of 27 full-time tenure-track faculty with research strengths in the areas of Cell and Molecular Biology, Genetics and Developmental Biology, Cellular Physiology and Ecology. We are committed to excellence in very active undergraduate and graduate programs. Our graduate program currently consists of approximately 50 full-time students. In addition to those who are supported by external grants, many of our graduate students are supported by state funds.

Superb core facilities are available to the Department for DNA and peptide synthesis and sequencing, computer structure modeling, monoclonal antibody production, animal facilities and state-of-the-art microscopy. In addition the Department has in place a well trained staff who operate and maintain the electron microscopy lab, greenhouse, electronics shop, machine shop and scientific illustration and photography lab.

We seek an outstanding scientist with demonstrated excellence in research and a genuine interest in quality graduate and undergraduate education. It is expected that the candidate will vigorously pursue an active research program, promote Departmental and interdisciplinary interactions among the faculty, provide scientific, educational and administrative leadership and continue the development of the Department towards one of the leading departments in the country. The University has committed considerable resources to this goal and will provide superb setup and operating funds. The opportunity to hire a considerable number of new tenure-track faculty will be available to the new chair.

Submit nominations and applications including curriculum vitae, summary of research interests and names, addresses and telephone numbers of four references to: Dr. Donald Berezney, Department Chair Search Committee, Department of Biological Sciences, State University of New York at Buffalo, Buffalo, New York 14260. Deadline for receipt of completed applications is December 1, 1989, or until a suitable candidate is identified. SUNYAB is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR
SOLID STATE DIVISION
OAK RIDGE NATIONAL LABORATORY

The Oak Ridge National Laboratory (ORNL) invites nominations and applications for the position of Director of the Solid State Division. This division is engaged primarily in fundamental research sponsored by the Division of Materials Sciences of the Office of Basic Energy Sciences, Office of Energy Research, U.S. Department of Energy, but small amounts of both fundamental and applied research are undertaken for other organizations. The present program of the division involves excellent research in a wide variety of areas, which include neutron scattering, x-ray and synchrotron radiation scattering, ion beam implantation and scattering, electron microscopy, surface physics and chemistry, ceramics, semiconductors, physics, synthesis and characterization of novel materials, and solid state theory. The Solid State Division also has several user or collaborative research centers that interface on a regular basis with outside collaborators from university, industry, and government laboratories. The Division Director is responsible for initiation and coordination of the research and for the development of important interdisciplinary research programs with other divisions of ORNL. Candidates should be U.S. citizens, should have strong records of fundamental research in the solid state sciences, and should have demonstrated management and leadership abilities. A Solid State Division Search Committee has been appointed and will begin its review of applicants on December 1, 1989, but applications will be accepted until the position is filled. Applicants should send a complete resume with names and contact information on three references to Dr. Michael K. Wilkinson, Chairman, Solid State Division Search Committee, Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831-6024.

ORNL, which is operated by Martin Marietta Energy Systems, Inc., for the U.S. Department of Energy, is an equal opportunity employer.

HUMAN GENOME INFORMATICS
Section Leader

Los Alamos National Laboratory has a broad research and development effort in the Human Genome Program, including development of new DNA sequencing technologies, generation of physical (ordered-clone) maps of human chromosomes and development of a Human Genome Information Resource to facilitate management and analysis of data generated by the Program.

The section leader will supervise a multidisciplinary team to develop systems for image analysis of electrophoresis gels; design and develop a database of physical mapping information for Laboratory and national use; develop software that provides access to the above as well as links to genetic map, sequence and other related databases; determine project hardware needs and oversee procurement; collaborate with corporate partners to facilitate transfer of technology to the private sector; and interact productively with other database projects at Los Alamos.

The successful candidate is expected to conduct research on topics such as image analysis, database management systems, knowledge representation in molecular biology or algorithms for physical map construction. Will have opportunities to assist in planning the national Human Genome Program.

It is expected that the successful candidate will have research experience in computational science as applied to molecular biology as well as experience in software and systems design, for example communication networks, complex databases or user interfaces. Experience with graphics and database management systems desirable. Record of innovation and project completion required. Excellent leadership and oral/written communication skills are essential. A Ph.D in computer science or molecular biology/genetics or the equivalent combination of education and experience is required.

As a leading R&D institution, we provide an attractive salary/benefits package and a challenging work environment. Interested candidates should forward a resume to Ray Archuleta (MS P280). Personnel Services Division 90716-EG, Los Alamos National Laboratory, Los Alamos, NM 87545, with a copy to George Bell (MS K710), Theoretical Division, from whom additional technical information can be obtained at 505-667-7510.

Affirmative Action/Equal Opportunity Employer.

University of California
Los Alamos
We invite applications for two tenure-track, assistant professor positions with starting dates to be between August 1990 and August 1991. The University seeks diverse individuals who can demonstrate teaching excellence in general genetics and secure extramural funding to develop strong independent research programs in genetics. Preference will be given to those who will complement and strengthen existing research programs within biology. Doctoral training in genetics required; postdoctoral training desirable.

**MOLECULAR GENETICIST.** Desirable areas of research: eukaryotic genome structure, genetic mechanisms of gene expression and regulation, and molecular mechanisms affecting patterns of inheritance. Teaching responsibilities: general and molecular genetics.

**EVOLUTIONARY GENETICIST.** Desirable areas of research: molecular and genome evolution, experimental and theoretical population genetics, quantitative genetics, mechanisms of speciation. Teaching responsibilities: general and population genetics.

Application deadline is 10 November 1989. Send curriculum vitae, statement of research goals, and three letters of reference to: Genetics Search Committee, Department of Biology, University of New Mexico, Albuquerque, NM 87131. We encourage women and underrepresented minorities to apply. The University of New Mexico is an Affirmative Action/Equal Opportunity Employer committed to cultural pluralism in its people and programs.

**HUGHES VISITING ASSISTANT PROFESSORSHIP.** Vassar College seeks a scientist with broad training in biology with emphasis on molecular neuropharmacology or environmental toxicology (i.e., environmental chemistry of pollutants, biological effects of pollutants). Successful candidate will teach three courses per academic year covering areas of expertise of choice and will develop an active program of postgraduate research. The University of New Haven, beginning August 1990 funded by the Howard Hughes Medical Institute. Submit curriculum vitae, statement of interests, and three letters of recommendation by 1 December 1989 to: Dr. N. Jay Bean, Chair, Hughes Appointment Search Committee, Box 65, Vassar College, Poughkeepsie, NY 12603. Vassar College is an Equal Opportunity/Affirmative Action Employer.

**INVERTEBRATE BIOLOGIST**
**EARLHAM COLLEGE**

Tenure-track assistant professorships begin fall 1990. Area of specialty (including entomology) is open. Ability to teach animal biology core courses is required. Opportunity exists to conduct research involving motivated undergraduates, for leadership of off-campus marine or tropical biology programs, or for supervision of college museum's collections. Desirable qualities include teaching, curricular innovation, and high proportion of majors going on to Ph.D.'s. As a Quaker liberal arts college, Earlham continues to build a vigorous academic community that reflects the gender and racial diversity of the society at large. To that end we specifically invite and encourage applications from women and minorities.

Send curriculum vitae, research philosophy statements, transcripts, and three recommendations to: Dr. William Buskirk, 85A Biology, Earlham College, Richmond, IN 47374. Review begins 1 January 1990. Equal Opportunity/Affirmative Action Employer.

**MOLECULAR BIOLLOGISTS**
**DEPARTMENT OF BIOLOGY, UNIVERSITY OF SOUTHERN CALIFORNIA**

The Department of Biology at the University of Southern California is strengthening a group in molecular biology and is expanding its faculty in that area. Applications at the ASSOCIATE PROFESSOR level. Applications from individuals in all areas of molecular biology are encouraged, but the department has particular interest in biochemical and structural aspects of transcription, growth regulation, gene expression, and microbial genetics. There is ample opportunity for interaction with the adjacent university in molecular biology, as well as at the Molecular Genetics Center. The University of Southern California is an Equal Opportunity/Affirmative Action Employer. Send curriculum vitae, select reprints, and names and addresses of three referees by 1 December 1989 to: Dr. M. R. Felder, Molecular Biology, Search Committee, Department of Biological Sciences, University of Southern California, Los Angeles, CA 90089. Review of applications will begin immediately and continue until the position is filled. Equal Opportunity/Affirmative Action Employer.

**NEUROANATOMIST/EXPERIMENTAL NEUROPATHOLOGIST.** Independent research faculty position in the Neuroanatomy Laboratory at the University of Rochester. Experience with modern neuroanatomical techniques required. Interest in psychiatric disorders desirable. New EM facility and generous start-up funds provided. Please send curriculum vitae, brief outline of research plans, and names of at least three references to: Dr. Robert Schwartz, Ph.D., Maryland Psychiatric Research Center, P.O. Box 21247, Baltimore, MD 21228. Equal Opportunity/Affirmative Action Employer.

The Department of Medicine, University of Toronto, has an opening for a LECTURER. The candidate should have a Ph.D. (M.D., Ph.D.) in the field of renal physiology or pathophysiology and be able to carry out multiple indicator dilution experiments and microcirculatory techniques. A minimum of 3 years of postdoctoral experience is required. The appointee will be expected to develop an independent research program in association with a basic research membrane biology group. Salary offers are competitive with rank and experience. The appointment is to be effective 1 July 1990 or sooner, with a closing date for receipt of applications being 1 December 1989. The University of Toronto encourages applications from qualified women and men, members of visible minorities, Aboriginal peoples and people with disabilities. In accordance with Canadian Immigration requirements this advertisement is directed firstly to Canadian citizens and permanent residents. Enquiries should be direct-ed to: Dr. M. Silverman, Director, M.R.C. Group in Membrane Biology Medical Sciences Building, Room 7226 1 King's Circle Circle University of Toronto Toronto, Ontario, MSS 1A8

**EMORY UNIVERSITY SCHOOL OF MEDICINE**

The Winship Cancer Center of Emory University School of Medicine is seeking a molecular geneticist at the level of interna-tional reputation to develop a significant cancer-related research program. Individuals involved in transgenic studies and/or molecular analysis of oncoproteins are partic-ularly encouraged to apply. The appointee will be at the rank of associate professor or above. Two newly constructed laboratories, including a $2-million animal barrier facility, are available. Cross-appointments with other university departments are encour-aged. Generous salary and start-up funds are avail-able.

Applications should submit curriculum vitae, statement of research interests, and have three letters of recommenda-tion sent to: Kenneth W. Sell, M.D., Ph.D., Director, Winship Cancer Center Emory University School of Medicine 1327 Clifton Road, NE Atlanta, GA 30322 Review of applications will begin immediately and continue until the position is filled. Emory University is an Equal Opportunity/Affirmative Action Employer.

**MOLECULAR BIOLLOGISTS**
**UNIVERSITY OF GEORGIA**

The Department of Genetics at the University of Georgia is seeking molecular geneticists for tenure-track positions available July 1990. The research areas and the academic rank of the positions available are experimental and theoretical population genetics, quantitative genetics, methods of genetic analysis, applications of the genetics of model organisms to human disease, cell and molecular biology. Typically, one of the principal goals of the successful candidate is to develop research programs in laboratory facilities and to seek extramural funds to support the programs. The candidate must have a Ph.D. degree, postdoc-toral experience, and a demonstrated ability to develop and maintain independent and productive research programs. Exceptional candidates will be considered at the ASSISTANT/ASSOCIATE level. Candidates are encouraged to apply. In addition, the successful candidate is expected to participate in department and graduate teaching of biochemistry or molecular biology. Individuals with research interests in all areas of molecular biology whose areas of expertise in gene expression or molecular neurobiology are encouraged to apply. Deadline for applications is 1 November 1989. Send curriculum vitae, a statement of research interests and the names of three references to: Dr. N. P. Curthoys, Department of Biochemistry, Colorado State University, Fort Collins, CO 80523. CSU is an Equal Opportunity/Affirmative Action Employer. E.O. employer, 314 Student Services Building.

**MOLECULAR BIOLOGIST/ MICROBIOLOGIST**

The Department of Agriculture, Agricultural Research Service is seeking a molecular biologist/microbiologist to conduct research on calcivirus. The position is located at the National Animal Disease Center, Ames, Iowa, and is tenured, full-time appointment. Responsibilities include: to evaluate and compare biological and genetic properties of known and potential calcivirus strains; to determine genetic and biological mechanisms of calcivirus evolution; to characterize the viral genome in regard to coding sequences for immunogenetic proteins and host factors, as well as genetic variability; and to develop methods for isolation of genome information. Salary is commensurate with experience ($23,852 to $44,957). Applications received will be considered until 13 November 1989. Send applications to: Jon Carr, USDA-ARS, Personnel Division, Personnel Operations Branch, Building 419, BAR-CEN, Beltsville, MD 20705. Equal Opportunity Employer.
Amgen is an innovative leader in the application of biotechnology for the discovery and development of human therapeutic products. Our continued progress in a number of research programs has resulted in a need for creative scientists at the Ph.D. and BS/MS levels in our Pharmacology Group.

**RESEARCH SCIENTISTS**  
Dept. #410

Candidates for Research Scientists positions must have a Ph.D. in Pharmacology or Biopharmaceutics and a minimum of two years' post-doctoral experience in the absorption, distribution, metabolism and excretion of drugs (preferably polypeptides and proteins). Previous experience in computerized pharmacokinetics modeling programs and knowledge of protein and peptide separation techniques are essential. Previous industrial experience is highly desirable.

**RESEARCH ASSOCIATES**  
Dept. #411

Candidates for Research Associates positions should have a BS or MS in Pharmacology or a related discipline and in vivo research experience including small animal surgery and blood and tissue sampling. Experience in radiotracer and immunoassay techniques, statistical analysis of data and familiarity with the use of computers in recording and analyzing data are desirable.

Amgen offers an excellent compensation and benefits package as well as the unique opportunity to contribute to stimulating and challenging research programs on the leading edge of biotechnology. If you have the necessary qualifications and would like to be a part of a company that places a high priority on its human resources, please send a C.V., in confidence, to:

AMGEN, INC.  
Recruitment, (please specify Dept. #)  
Amgen Center  
Thousand Oaks, CA  
91320-1789

Equal Opportunity Employer

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**MOLECULAR BIOLOGIST**

Sphinx Biotechnologies is a young and rapidly growing company whose mission is to help sick people through discovery, development, manufacturing and marketing of pharmaceuticals targeted towards signal transduction systems involving lipid second messengers.

**Molecular Biologist** We are seeking a molecular biologist to integrate with our discovery and development programs. The successful candidate will have a Ph.D. in molecular biology, biochemistry or related scientific field, at least three years of postdoctoral experience, expertise in the use of recombinant DNA techniques for the expression of proteins, and demonstrated ability to interact with a multidisciplinary research team.

Sphinx Biotechnologies offers excellent compensation and benefits as well as an attractive relocation policy. We are located in the Research Triangle area of North Carolina which offers excellent living conditions and outstanding schools. For confidential consideration, please forward your curriculum vitae, list of publications and names of three references to:

Sphinx Biotechnologies Corporation  
Position 107  
Post Office Box 727  
Durham, NC 27702-0727

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NEW LAB SERVICE DEPT.  
1515 BROADWAY  
NEW YORK, N.Y. 10036
WASHINGTON AND JEFFERSON COLLEGE MOLECULAR BIOLIGIST

Washington and Jefferson College, a 1200 student liberal arts college in western Pennsylvania, with approximately 200 biology majors, is adding a staff position in molecular biology for fall 1990. Departmen
tal duties will include teaching and research, in molecular biology and experimental biology, participa
tion in the beginning course, supervising independent
tudies, and advising. Experimental biology should be molecular oriented. Applicants might include those
with in-depth work in areas such as recombinant DNA tech
iques, monoclonal antibody procedures, molecular sep
arations, sequencing, etc. Applicants should send res
umes to: The Executive Assistant to the President, Washington and Jefferson College, Washington, PA
15301. No references unless requested. Affirmative Ac
tion/Equal Opportunity Employer.

NEUROSCIENCES FACULTY POSITION—Search extended. The College of Staten Island of the City University of New York is offering a full
time tenure-track position (beginning 1 September 1990) in developmental neurobiology. Candidates must be qualified to participate in the Ph.D.
program in biology or biochemistry. A strong record of research, publication, and grant support is required. Rank and salary commensurate with experience
and record of scholarship. Salary range $40,000 to $66,000.
Excellent fringe benefits. Ankle research space and start
up funds are available. The successful candidate will be
expected to participate in the programs of the CSI/IBR
Center for Developmental Neuroscience. Send curriculum vitae and names of three references to: 15 January 1990 to:
Dr. Barry Breslau, Assistant Professor/Dean of Academic Af
fairs, The College of Staten Island/CUNY, 715 Ocean
Terrace, Staten Island, NY 10301. Equal Opportunity/
Affirmative Action Employer.

PEDIATRIC GENETICIST—Unique research op
portunity at prestigious Children’s Hospital of Philadel
phia for individual interested in molecular biology of
cutaneous diseases. Prior postdoctoral experience in
molecular biology necessary. Excellent chance to develop
research program and expertise in dermatology with faculty members involved in Pediatrics and
Dermatology. Candidate will have the opportunity to join a growing research community emphasizing
development, molecular, and cellular biology; and human gene mapping. The setting features a consolidated campus which includes The Chil
dren’s Hospital of Philadelphia, University of Pennsylva
nia School of Medicine, University of Pennsylvania School of Dentistry, Wistar Institute, and Graduate
School of Arts and Sciences. Individual should be eligible for junior faculty appointment at the University of Pennsylvania. The possibility exists to obtain Board certification in dermatology while actually involved in research programs. Forward curriculum vitae to: Mi
chael Zasloff, M.D., Ph.D., and Paul J. Honig, M.D.,
The Children’s Hospital of Philadelphia, 34th and
Civic Center Boulevard, Philadelphia, PA 19104.
An Equal Opportunity Employer M/F.

POSTDOCTORAL POSITION—In the Divi
sion of Endocrinology, Department of Pediatrics, Chil
dren’s Hospital of Pittsburgh. Project involves isolation,
purification, and cloning of peptide hormone recep
tor(s). Experience/expense training in molecular biolo
gy and biochemistry essential. Position offers opportuni
ty for career advancement and subsequent independent research in related field of developmental endocrinology and physiology. Apply with curriculum vitae and four names of references to: Mark A. Sperling, M.D., Chairman,
Department of Pediatrics, Children’s Hospital of
Pittsburgh, 3705 Fifth Avenue, Pittsburgh, PA 15212. An Equal Opportunity Employer.

ORGANIC CHEMISTRY—The Chemistry De
partment of Williams College invites applications for a
tenure-track position at the ASSISTANT PROFE
SOR level for fall 1990. Candidates should have a Ph.D.
degree, evidence of excellence in teaching, and an active research
program that will involve undergraduates and graduates.
Teaching will be in the areas of organic chemistry, but additional assignments will be from other
courses in the curriculum consistent with the individual’s background and interests and the needs of the Depart
ment. A sense of humor and normal social behavior are
assumed. Salary is competitive for one course, including laboratory sections, and supervision of student research projects.
Appointments expected. Inquiries are invited from qualified candidates, including women and members of under
represented minority groups. Applicants should send writing samples, a list of courses taught and graduate
research, a statement of research activities and future plans, and three letters of recommendation to:
Dr. Lawrence J.áticas, Dean of the College of Science,
Williams College, Williamstown, MA
01267, by 1 December 1989. Equal Opportunity/Affirma
tive Action Employer.

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE—Develop
mental biology. The Cell Biology Group, Fredrickson’s Lab, Department of Biology, University
of Oregon, Eugene, OR seeks for a 1-year full
time postdoctoral associate at the research level
for a position in cell biology. Research interests are
generally in the area of cell biochemistry, molecular biology, or biochemistry with some experi
ence in chromosome biology. Strong background in molecular biology required and knowledge of
Chinese and Japanese language desirable. Applicant must have a Ph.D. in biochemistry, molecular biology,
or biochemistry and genetical or molecular biology.
Salary $14,000 with possibility of renewal for another
year. Send letter of application, curriculum vitae and
Address: Dr. Fredrickson, Department of Biology,
University of Oregon, Eugene, OR 97403. Equal
Opportunity Employer.

POSTDOCTORAL FELLOWSHIP—The
Department of Molecular Biology at University of
Michigan, Ann Arbor, invites applications for a 1-year postdoctoral fellowship. The position
is to work on projects in the area of molecular biology.
Candidates should have a Ph.D. in molecular biology
and experience in genetic analysis of eukaryotic cells.
The successful candidate will receive a stipend of
$20,000, plus benefits. Send letter of application, curricu
lum vitae, and names of three references to: Dr. De
Mooy, Department of Molecular Biology, University of
Michigan, Ann Arbor, MI 48109. Equal Opportunity
Employer.

POSTDOCTORAL POSITION—In the De
partment of Cell Biology, Ohio State University, Colum
bus, Ohio, we have a position on a project to deter
mine the role of an oxygen radical in cell biology.
Candidates should have a Ph.D. in biochemistry or a
related biological science. Salary is negotiable. Send
letter of application, vitae, and three letters of recom
mendation to: Dr. K. C. Tan, Department of Cell Biolo
gy, Ohio State University, Columbus, Ohio 43210. Equal
Opportunity Employer.

POSTDOCTORAL POSITION—Animal
biomedical research. The Department of Biomedical
Science at the University of Michigan Medical School,
Ann Arbor, MI seeks for postdoctoral associates for
projects focusing on the role of epithelial cells in the
regulation of proteinase secretion. Research involves
the use of radiolabeled proteinase substrates, and
Western blot analysis. The successful candidate will
receive a stipend of $28,500 and will be provided with
a fully furnished apartment. Send letter of applica
tion, curriculum vitae, and names of three references
to: Dr. H. H. Horvath, Department of Biomedical
Science, University of Michigan Medical School,
Ann Arbor, MI 48109. Equal Opportunity Employer.

POSTDOCTORAL POSITION—In the
Division of Pharmaceutical Sciences, University of
Michigan, Ann Arbor, we have an opening for a post
doctoral research associate to work on a project in
molecular biology. The candidate should have a Ph.D.
in biology, biochemistry, or a related field. Strong
interest in molecular biology and experience in molec
ular cloning and/or protein purification are desirable.
Salary is negotiable. Send letter of application, curricu
lum vitae, and three letters of recommendation to:
Dr. M. Ross, Department of Pharmaceutical Sciences,
University of Michigan, Ann Arbor, MI 48109. Equal
Opportunity Employer.

POSTDOCTORAL FELLOWSHIP—Cell
biochemistry. Positions are available in cell biochem
istry at the University of Michigan Medical School, Ann
Arbor, MI. Areas of research are extremely diverse, in
cluding cell cycle control, ion transport, cell cycle regu
lation, signal transduction, cell proliferation, and tis
sue physiology. Applications are invited from assistant
professors and individuals with a strong background in
biochemistry. Salary is negotiable. Send letter of applica
tion, curriculum vitae, and names of three references
to: Dr. K. B. Blumer, Department of Cell Biology,
University of Michigan Medical School, Ann Arbor,
MI 48109. Equal Opportunity Employer.
Research Opportunities in Plant Biotechnology

Garst Seed Company, a member of ICI SEEDS, is looking for individuals with a BS/MS in plant science to work in the following areas:

   Applicants should have strong interest either in the molecular and biochemical characterization of transformed plants, or, the use of plant tissue culture techniques in crop improvement.

2. Molecular Screening.
   Applicants should have strong interest in current DNA and RFLP techniques.

The positions are in our new research facility as Slater, Iowa (10 miles south of Ames). Salary and benefits will be competitive.

Please submit resume in confidence to Sue Schulz, Garst Seed Company, P.O. Box 500, Slater, Iowa 50244

PhDs • Pharmacology • Physiology

Hoechst-Roussel Pharmaceuticals Inc., fast-growing subsidiary of Hoechst Celanese Corporation, a $4.6 billion division of one of the world's leading producers of chemicals and pharmaceuticals, has several opportunities for published Pharmacologists or Physiologists. Primary responsibilities will entail developing contacts within medical institutions, universities, teaching hospitals and government research groups. In addition, you will prepare auxiliary technical materials and deliver technical updates/training to field sales personnel.

Ideal candidates will possess a BS in Pharmacy, a PhD in Physiology or Pharmacology, and 2-3 years teaching experience at the university level or experience in clinical pharmacy.

These highly visible positions will provide direct contact with prominent figures in the medical field and pharmaceutical industry.

We offer a superb compensation package, including an excellent salary plus expense account, a company car and outstanding company benefits. Positions are available in the middle and upper Midwest.

Send curriculum vitae with current earnings to: Manager Human Resources, Room B214, Hoechst-Roussel Pharmaceuticals Inc., Route 202-206, P.O. Box 2500, Somerville, NJ 08876. An affirmative action employer.
POSTDOCTORAL POSITION

POSTDOCTORAL POSITION (BIOCHEMISTRY/PHYSICS) for joint fellowship available immediately for a biochemical/biophysical group or study human cholesterol, lipid, and lipoprotein metabolism. Send curriculum vitae, statement of research interest, and names of three references to: Professor W.B. Whitten, Department of Pediatrics, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

ATHEROSCLEROSIS RESEARCH

Is available in 1989. This is a comprehensive interdisciplinary program with possibilities for diverse projects in cell biology, biochemistry, and molecular biology. A Ph.D. in biomedical areas or an M.D. with laboratory experience may apply. Applicants with significant experience in cell biology and/or protein chemistry and/or molecular biology preferred. Salary according to NIH guidelines. Interested applicants should submit curriculum vitae, a detailed outline of his/hers research background and names, addresses, and telephone numbers of three references to:

Dr. Nils U. Bang
Indiana University School of Medicine
Whitard Hall, Indiana University Hospital Room B721
1001 West 10th Street
Indianapolis, IN 46202

POSTDOCTORAL POSITION—MARINE INVERTEBRATE MOLECULAR EVOLUTION at the Smithsonian Tropical Research Institute in the Republic of Panama. Two-year position available immediately for candidate with extensive experience in protein gel electrophoresis to carry out study of population genetics and systematics of bryozoans from the tropical Americas. Ph.D. in evolutionary biology, genetics, or systematics required. Experience with mDNA analysis and SCUBA diving desirable. Salary $23,000. Curriculum vitae and three confidential letters of recommendation should be sent to: Dr. Jerry B. C. Jackson, Smithsonian Tropical Research Institute, APO Miami FL 34002—0011. Equal Opportunity Employer, employment not limited by nationality.

POSTDOCTORAL POSITION—MICROBIOLOGY: Available immediately to study microbial desulfurization of coal. Emphasis is on genetic and pathway engineering. Requires experience in genetic engineering and conventional genetic techniques. Experience with Thiobacillus and/or Psychrobacter is desirable. Three-year position with renewal. Send resume to: Mr. Richard Shaw, Battelle, 505 King Avenue, Department X-4, Columbus, OH 43201—2693. An Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF PENNSYLVANIA

POSTDOCTORAL POSITION

RESEARCH SCIENTIST

The Department of Dermatology is offering an outstanding opportunity to investigate the immunomodulatory effects of extracellular photopherotherapy. The University of Pennsylvania is a leading center in the use of this exciting new immunotherapy in the treatment of autoimmune disease and cancer. Collaboration with other major university centers is currently ongoing. Studies would focus on the correction of abnormal immunoregulation and the induction of heightened antitumor immunity produced by this therapy. Previous experience in cellular immunology, immunohistochemistry, and Northern blotting necessary. Substantial interaction with senior scientists in molecular biology, immunodermatology, and photobiology possible. Salary negotiable and duration of appointment flexible. Reply to:

Dr. Alan E. Smith
Biopharmaceuticals
Genzyme Corporation
One Mountain Road
Framingham, MA 01701
An Equal Opportunity Employer.

POSTDOCTORAL IN RESERVOIR

SCIENCE/AQUATIC ECOLOGY

The Center for Reservoir Research at Murray State University has several openings for 2-yr appointments as research associates. The work is centered at the Hancock Biological Station and the Mid-America Remote Sensing Center and is focused on long-term research on Kentucky Lake. Experienced associates in areas of physical modeling (lakes, reservoirs, estuaries), database management and analysis, and algal physiology, algal systems, or algal ecophysiology desirable. Inquire or apply (include resume plus names, addresses, and telephone numbers of three references) to: G. R. Marzolf, Hancock Biological Station, Murray State University, Murray Ky. 42071.

POSTDOCTORAL POSITION

OPEN

POSTDOCTORAL POSITION (BIOCHEMISTRY) for joint fellowship available immediately for a biochemical/biophysical group or study human cholesterol, lipid, and lipoprotein metabolism. Send curriculum vitae, statement of research interest, and names of three references to: Professor W.B. Whitten, Department of Pediatrics, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

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Dr. Nils U. Bang
Indiana University School of Medicine
Whitard Hall, Indiana University Hospital Room B721
1001 West 10th Street
Indianapolis, IN 46202

POSTDOCTORAL POSITION—MARINE INVERTEBRATE MOLECULAR EVOLUTION at the Smithsonian Tropical Research Institute in the Republic of Panama. Two-year position available immediately for candidate with extensive experience in protein gel electrophoresis to carry out study of population genetics and systematics of bryozoans from the tropical Americas. Ph.D. in evolutionary biology, genetics, or systematics required. Experience with mDNA analysis and SCUBA diving desirable. Salary $23,000. Curriculum vitae and three confidential letters of recommendation should be sent to: Dr. Jerry B. C. Jackson, Smithsonian Tropical Research Institute, APO Miami FL 34002—0011. Equal Opportunity Employer, employment not limited by nationality.

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UNIVERSITY OF PENNSYLVANIA

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Dr. Alan E. Smith
Biopharmaceuticals
Genzyme Corporation
One Mountain Road
Framingham, MA 01701
An Equal Opportunity Employer.

POSTDOCTORAL IN RESERVOIR

SCIENCE/AQUATIC ECOLOGY

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Sr. Scientist
Sandoz Crop Protection, a company known for excellence in agricultural research, is seeking a Senior Scientist for its Plant Biotechnology Group. The applicant should have a Ph.D. in Molecular Biology, Biochemistry or Chemistry & postdoctoral exper. in the area of protein structure/function relationships. A background in phytopathology is highly desirable.

Our new research facility is located in Palo Alto near Stanford University. Sandoz provides a challenging work environment with opportunity for professional growth. For consideration send resume to:

Sandoz Crop Protection Corporation
Human Resources Department
975 California Avenue
Palo Alto, CA 94304
AA/EOE

Protein Folding and Stability
Smith Kline and French Laboratories, a division of SmithKline Beecham, a worldwide leader in Pharmacological Research, has exciting opportunities for an Associate Senior Investigator and a Postdoctoral Scientist, in its expanding Macromolecular Sciences Department. The position responsibilities and qualifications are:

Associate Senior Investigator
The selected candidate will conduct collaborative research within a laboratory utilizing recombinant DNA methods for protein structure/function analysis and protein design. The candidate should have a Ph.D. in Chemistry, Biochemistry or Biophysics and have experience in the experimental determination of protein thermodynamic stability and/or folding kinetics, and some familiarity with computer graphics analysis of protein structure. Experience in protein purification and protein refolding are highly desirable. (#H0120)

Postdoctoral Scientist
This position involves the characterization of proteins implicated in facilitating protein folding in vivo and exploration of their utility in promoting proper folding of heterologous gene products in vivo and in vitro. The candidate should have a Ph.D. in Chemistry, Biochemistry or Microbiology, and experience in molecular cloning techniques. Additional experience in protein purification and characterization is desirable. (#H0107)

Our new, state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. Smith Kline and French Laboratories provides a stimulating and challenging work environment with opportunity for professional growth. We offer an attractive compensation and benefits package. For confidential consideration, please submit your C.V., including the names and addresses of three references, to: Nancy Hasson, (Job Reference #), Smith Kline and French Laboratories, Research & Development, P.O. Box 1539, King of Prussia, PA 19406-0539. We are an Equal Opportunity Employer, M/F/H/V.

MANAGER OF VETERINARY SERVICES
The Salk Institute for Biological Studies, located in southern California, seeks a qualified veterinarian to manage its research animal facility. The successful candidate will be responsible for supervising an animal facility carrying out a diverse basic research program; developing and implementing a program to monitor and improve animal health; providing acute care and preventative medicine for all animals on a daily basis; developing an in-house diagnostic capability; training and supervising animal care technicians and technical personnel; consulting with and advising faculty members on procedures involving animal use and care; and reviewing animal research protocols for compliance with federal and state regulations. This position requires a D.V.M. or equivalent degree, and postdoctoral training or board certification or eligibility by The American College of Laboratory Animal Medicine.

A competitive salary and comprehensive benefits package is offered dependent on qualifications and experience. Please send your resume, in confidence, to:

Dept. DVM
The Salk Institute for Biological Studies
P.O. Box 85600
San Diego, CA 92138-9216

Inflammation/Osteoarthritis Research Scientist
CIBA-GEIGY’s Pharmaceuticals Division is a world leader in the scientific research and development of health-protecting and life-enhancing products. Our work in the area of anti-rheumatic compounds is an outstanding example of this commitment.

We have a challenging opportunity for a scientist with proficiency in Lymphocyte Biology to join our drug discovery team effort. You will apply your experience with cell lines, ELISA techniques, B cell, in vitro assays and flow cytometry in the study of immunoglobulin expression and secretion, cell activation and cell cycling.

A degree in Cell Biology, Immunology or related discipline (BS or BA) is required; an MS degree is desirable. Your 4 + years laboratory experience (2+ years for MS candidates), will have familiarized you with the required techniques. The ability to interact as a member of a development team is essential.

CIBA-GEIGY offers an excellent salary, comprehensive benefits and the opportunity for professional growth. Please send your resume with salary history and requirements to: Al Aronson, Staffing Center, CIBA-GEIGY Corporation, Pharmaceuticals Division, Dept. 304, 556 Morris Avenue, Summit, New Jersey 07901. We are An Equal Opportunity Employer M/F/H/V.

Science Serving Mankind

CIBA-GEIGY
POSTDOCTORAL RESEARCH ASSOCIATE

A postdoctoral position is immediately available to study: (i) the regulation of membrane lipid metabolism in lymphocytes undergoing growth and differentiation; and (ii) the role of membrane lipids in lymphocyte function. Research will be conducted by a recent Ph.D. in immunology or biochemistry, and previous experience in cellular immunology or molecular biology. National competitive salary plus fringe benefits. Send curriculum vitae, statement of research interest and objectives, and name and addresses of three references to: Dr. Thomas M. Butte, Department of Microbiology and Immunology, East Carolina University School of Medicine, Greenville, NC 27858-4354. East Carolina University is an Affirmative Action/Equal Opportunity Employer.

RESEARCH AND DEVELOPMENT CHEMIST

Conduct research projects aimed at developing novel, advanced dyes, products, and new specialty chemicals for highly specialized application in textile industry. Design and conduct synthesis, purification, analysis, characterization, evaluation, modification and formulation of a wide range of organic materials. Report work to, and critically review results with, director of advanced dyes research. Requires Ph.D. degree in organic chemistry and 1 year of experience in preparation of new or related occupation of postdoctoral researcher. Also requires experience in main step synthesis of complex synthetic products, including nitrogen heterocyclic compounds, substituted aromatic compounds and polar organic molecules. Requires experience with fluorinated products. Must be proficient in modern spectroscopic methods (particularly ultraviolet/visible). Salary: $40,800 per year; 40 hours per week, 8 a.m. to 5:00 p.m. Service, 30 West Trade Street, Charlotte, NC 28202 or nearest Job Service office. Reference Job Order #2691677.

POSTDOCTORAL RESEARCH ASSOCIATE

Vertebrate physiologist/ecologist to collaborate in ongoing studies on muscle atrophy in birds and on marine mammal energy expenditure. Experience in nitrogen metabolism in fish and mammals. Experience in using nitrogen heterocyclic compounds, substituted aromatic compounds and polar organic molecules. Requirements: Equivalent of Bachelor's degree in marine animal physiology. Experience in experimental design and data analysis. Applications and requests should be addressed to: Dr. H. C. Montllor, President, Fundacion Patagonia, S.A., Balmoral, F-13200 Arles France.

RESEARCH SCIENTIST POSITION, POULTRY

Research Laboratory, Georgetown, Delaware. ARS is seeking a permanent physiologist/biochemist (poultry) to participate in a research project involving the nutritional and biochemical effects of growth and body composition. Experience in research involving the investigation of growth and composition of poultry. Experience in research involves providing technical advice and expertise in the field of poultry biology. Experience in the field of poultry biology is required. Responsibilities include: (i) the measurement of feed efficiency and carcass composition; (ii) the measurement of nutrient retention and utilization; (iii) the measurement of feed intake and body growth; and (iv) the measurement of carcass composition and yield. Applicants should have a Ph.D. in poultry science or a related field of study. Applicants must have experience in research involving the measurement of nutrient retention and utilization. Applicants must have experience in research involving the measurement of feed intake and body growth. Applicants must have experience in research involving the measurement of carcass composition and yield. Applicants must have experience in research involving the measurement of feed efficiency and carcass composition. Applicants must have experience in research involving the measurement of nutrient retention and utilization. Applicants must have experience in research involving the measurement of feed intake and body growth. Applicants must have experience in research involving the measurement of carcass composition and yield. Applicants must have experience in research involving the measurement of feed efficiency and carcass composition. Applicants must have experience in research involving the measurement of nutrient retention and utilization. Applicants must have experience in research involving the measurement of feed intake and body growth. Applicants must have experience in research involving the measurement of carcass composition and yield. Applicants must have experience in research involving the measurement of feed efficiency and carcass composition. Applicants must have experience in research involving the measurement of nutrient retention and utilization. Applicants must have experience in research involving the measurement of feed intake and body growth. Applicants must have experience in research involving the measurement of carcass composition and yield. Applicants must have experience in research involving the measurement of feed efficiency and carcass composition. Applicants must have experience in research involving the measurement of nutrient retention and utilization. Applicants must have experience in research involving the measurement of feed intake and body growth. Applicants must have experience in research involving the measurement of carcass composition and yield. 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SENIOR RESEARCH BIOCHEMIST: The position is available beginning 1 January 1990 for an outstanding scientist with Ph.D. in biochemistry or molecular biology and appropriate postdoctoral training. Major thrust of research is to elucidate mechanisms of estrogen-metabolizing enzymes and mechanism of carcinogenesis. Previous experience in these areas is highly desirable. Deadline for applications is 1 December 1989. Please send application to: Dr. Chung S. Yang, Department of Chemical Biology and Pharmacognosy, College of Pharmacy, Rutgers University, Piscataway, NJ 08855-0789. Affirmative Action/Equal Opportunity Employer.

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Application forms and further particulars may be obtained from: The Personnel Officer (Academic Staff), quoting Ref: 89/131, Aston University, Aston Triangle, Birmingham B4 7ET, England. Telephone 021-259-0870 (24 hour answer phone). Closing date for the receipt of applications is 24 November 1989.

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Presented by the University of Kentucky's Tobacco and Health Research Institute, 10-13 December 1989, at the Hyatt Regency Hotel in Lexington, Kentucky. The symposium will cover all aspects of smoking and its relation to cardiovascular disease and the prevention and treatment of tobacco-related disease. For further information, contact the symposium office, University of Kentucky, 1255 South Limestone Street, Lexington, KY 40506-0011. Telephone: 606-258-5151.
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TRAINING PROGRAMS

ENVIRONMENTAL TOXICOLOGY TRAINING UNIVERSITY OF WISCONSIN-MADISON POSTDOCTORAL positions available funded from an NIH training grant from research grants. Adnan Elfarra—Metabolic basis of conjugated dienes toxicity Colin Jefcoate—Gene expression of P-450s William Karasov—Effects of xenobiotics on digestion and nutrient transport Charles Kasper—Regulation of enzymes responsible for carcinogen activation Gerald Odell—Glucuronosyl transferases Michael Partiza—Anticarcinogenic activity of dietary lipinoic acid as man made at St., marine biogeochemistry; and ocean engineering. Specific areas of interest might include continental margins and coastal sciences; marine geology, paleoecology and paleoceanography; biogeochemical cycles; global climate change; atmospheric chemistry; large scale ocean circulation; marine microbiology; isotope geochemistry; and satellite oceanography. Awards will be made on a competitive basis with a particular emphasis on the recipient's potential for independent and creative research.

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POSTDOCTORAL FELLOWSHIPS AT THE SCRIPPS INSTITUTION OF OCEANOGRAPHY Applications are invited for postdoctoral awards from new or recent Ph.D. students in all major areas of research conducted at the Scripps Institution of Oceanography (SIO). Interest areas include physical, chemical and biological oceanography; marine geology, geochemistry and geochemistry; and ocean engineering. Specific areas of interest might include continental margins and coastal sciences; marine geology, paleoecology and paleoceanography; biogeochemical cycles; global climate change; atmospheric chemistry; large scale ocean circulation; marine microbiology; isotope geochemistry; and satellite oceanography. Awards will be made on a competitive basis with a particular emphasis on the recipient's potential for independent and creative research. Fellowships will be awarded for 1 year with stipends commensurate with experience, plus benefits and a small budget for publications, travel, etc. Renewals for a second year, depending upon performance, are possible. Applicants should submit complete transcripts of graduate records, a curriculum vitae, addresses and telephone numbers of at least three references, and a concise synopsis of the applicant's (a) doctoral research, and (b) research interests at SIO. All application materials must be received by 15 January 1990. Awards will be announced by early April, 1990. Applications and questions should be addressed to: The Chairman, Graduate Department, Scripps Institution of Oceanography, University of California, San Diego, A-008, La Jolla, CA 92039.

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POSTDOCTORAL FELLOWSHIP involving instrumentation and methods development related to increasing sensitivity of protein microsequencing. Background in biochemistry or protein chemistry preferred. Experience with instrumentation required. HPLC. and electrophoresis desirable. Send curriculum vitae and three letters of reference to: Dr. Leroy Hood, California Institute of Technology, Division of Biology 147-75, Pasadena, CA 91125.

POSTDOCTORAL FELLOWSHIP position open immediately in the Division of Oral Biology, University of California School of Dentistry, to study Epstein-Barr Virus gene expression in epithelial tissues. Experience in molecular biology, cell culture and transformation desirable. Stipend commensurate with experience. Please send inquiries, curriculum vitae, and three letters of recommendation to: Dr. John S. Greenspan, Chairman of Stomatology, Box 1512, University of California, San Francisco, CA 94143-0512. Equal Opportunity/ Affirmative Action Employer.

University of Southern California and Children's Hospital of Los Angeles —2 NIH-Funded POSTDOCTORAL FELLOWSHIPS available in a dynamic young research group. The position is on transgenic mouse to study retina cell differentiation and receptor-mediated nerve cell differentiation. Send curriculum vitae and three letters of references to: Dr. E. R. Bogenmann, Division of Hematology-Oncology, Children's Hospital of Los Angeles, 4650 Sunset Boulevard, Los Angeles, CA 90027. Childrend Hospital USC are Equal Opportunity/ Affirmative Action Employers.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS IN ENVIRONMENTAL TOXICOLOGY AND PATHOLOGY Postdoctoral fellowship positions funded by an NIH training grant are available effective immediately at Northwestern University Medical School in Chicago. The preceptors and their research areas are: Toshio Narahashi, Mechanisms of action of insecticides and heavy metals on nerve membrane ion channels by voltage clamp and patch clamp; Philip M. Iannaccone, Effects of carcinogens on mammalian embryo; Michael J. Morin, Antineoplastic agents. Signal transduction and therapeutic application; Ryoichi Oyama, Mechanisms of urinary bladder cancer; M. Sambasiva Rao, Pancreatic carcinoma; Janardan K. Reddy, Pancreatic carcinoma and liver peroxisome proliferators; Dante G. Scarpelli, Mechanisms of pancreatic carcinoma; Dennis B. Solt, Carcinogen modification of epithelial cells; and Chau H. Wu, Mode of action of environmental toxins on nerve membranes by voltage clamp and patch clamp. These studies are being carried out on an extensive scale in the Departments of Pharmacology and Pathology. The applicants must be U.S. citizens or permanent residents, and must hold a Ph.D., M.D., or equivalent degree, or be expected to receive the degree. Send a letter stating a specific area of interest, curriculum vitae, and three reference letters to: Dr. Toshio Narahashi, Program Director, Department of Pharmacology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. Telephone: 312-908-8284. Applications from minority groups are strongly encouraged. An Affirmative Action/Equal Opportunity Employer.

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