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POSITIONS OPEN

ANATOMIST: TENURE-TRACK POSITION ASSISTANT PROFESSOR LEVEL

Ph.D., M.D., or equivalent doctoral training with at least 2 years of postdoctoral experience in research teaching. Applicants should also indicate their research interests and will be expected to qualify for faculty support from extra-departmental sources. Salary is from a university-based departmental budget and is dependent on qualifications and experience. Applicants should be qualified to teach the anatomy of any of the branches of anatomic sciences. Applications from candidates in graduate teaching is also expected in the appointee's field of academic interest. Starting date: 1 January 1991 or 1 July 1991. Please send, by 30 October 1990 to the following: Dr. Charles E. Slonecker, Department of Anatomy, 2177 Webbrook Mall, The University of British Columbia, Vancouver, B.C., Canada V6T 1W6. Applications should be accompanied by a curriculum vitae and the names of three academic referees. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of British Columbia is committed to the federal government's Employment Equity program and encourages applications from all qualified individuals.

ASSISTANT ADJUNCT PROFESSOR OF MEDICINE. The Medicine and the University of California, San Diego (UCSD), Cancer Center is seeking an individual to organize and run a core facility in glycolipid biochemistry, conduct research in glycoconjugate chemistry, teach courses and methods courses. Candidates must have a Ph.D. in chemistry, postdoctoral experience in mammalian glycoprotein chemistry, teaching experience in bacterial/plant polysaccharide chemistry, in NMR of oligosaccharides, and in FAB-MS. Salary related to rank and step of appointment within established UCSD salary schedule. Reply by 24 August 1990 to: Arik Varki, M.D., Associate Professor, 0063, University of California, San Diego, La Jolla, CA 92093. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR. Nutritional sciences. Tenure-track, 9-month, teaching/research position. Teach applied and community nutrition, develop and maintain a fundable research program, and advise graduate and undergraduate students. A Ph.D. in nutrition or closely related area, experience in teaching, evidence of research productivity, potential for extramural support are required. Registered dietitian status preferred. Send by 30 October 1990, a letter of application including a description of teaching experience and a detailed summary of research interests, current or planned, and list of publications, and names, addresses, and phone numbers of three references to: Dr. Jane K. Ross, Chair of Search Committee, Department of Nutritional Sciences, 357 Kerr Hall, University of Vermont, Burlington, VT 05405. Women and minority candidates are encouraged to apply. The University of Vermont is an Affirmative Action/Equal Opportunity Employer.

Watershed extension specialist. Department of Geog- raphy, Utah State University (USU), invites applications for a tenure-track position as an extension specialist and ASSISTANT PROFESSOR in watershed science. The successful candidate will also be a member of the inter- departmental Watershed Science Unit in the College of Natural Resources. We are interested in candidates with expertise in surface water and riparian area man- agement and have broad backgrounds in natural re- sources management. The successful applicant will be expected to provide technical assistance to county and state extension specialists, provide technical assistance to the USU Watershed User Group, and provide leadership and participate in training and extension efforts. The position is a 12-month appointment with a 25% teaching and research component. Applicants must be willing to travel extensively. Ph.D. required with at least one and preferably two degrees in watershed management, water resources, environmental science, or physical geography and another degree in a closely allied field such as range management, forest science, fisheries, or wildlife science. Send a complete curriculum vita, and three letters of recommendation to: Dr. Charles E. Hawkins, Extension Watershed Specialist Chair, Department of Geography, Utah State University, Logan, UT 84322-5240. The application deadline is 1 October 1990 or until a suitable candidate is found. USU is an EEO/AA Employer and an Immigration Reform and Control Act Employer.
POSITIONS OPEN

EXPERIMENTAL PHYSICAL OCEANOGRAPHER

The University of Washington Applied Physics Laboratory and School of Oceanography seek applicants for the ASSISTANT PROFESSOR level for a jointOceanography position. Applicants should have a strong background in the experimental techniques of oceanography and the dynamics of sea surface processes. The successful candidate will be expected to develop a strong sea-going program that utilizes the available experimental and instrumental opportunities and to participate in teaching and graduate student supervision. Preference will be given to the candidate who will complement existing programs in the interpretation of physical aspects of sea-air interaction, large-scale transports, and the coupling between acoustics and oceanography.

Applicants should send curriculum vitae, recent publications, and the names of four to six references to: Professor Arthur R. M. Nowell, Director, School of Oceanography, WR-10, University of Washington, Seattle, WA 98195, by 15 September 1990. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR.

To teach general biology, anatomy/physiology, and/or molecular and experimental pathology, Ph.D. in biological sciences with teaching experience. Prefer postdoctoral experience with research interest in electron microscopy and/or physiology. Experience in the use of modern molecular techniques to seek and analyze biological and/or physiological differences is desirable. Send applications before 30 September 1990 to: Please send letter of interest, resume, transcript, and three letters of recommendation to: Director, Human Resources, 643 Martin Luther King Jr., Drive, Atlanta, GA 30314.

ASSISTANT/ASSOCIATE PROFESSOR

DEPARTMENT OF MEDICINE

The Division of Renal Diseases, Department of Medicine, University of Colorado School of Medicine, is seeking a faculty member at the assistant/associate professor level (research specialty). Applicants should have a doctorate degree or equivalent and postdoctoral training in biochemical pharmacology, molecular biology, or closely related disciplines. Knowledge of signal transduction mechanisms, growth factors and their receptors, and/or cell-cell communication as applied to the renal and vascular systems will be particularly attractive. The successful candidate will be required to expend 50% effort in collaboration with ongoing research in the Division. Salary and rank will be dependent on qualifications.

This position will be available 1 October 1990. Send curriculum vitae, letters of reference, and a statement of interests to: Dean, University of Colorado School of Medicine, 4200 East Ninth Avenue, Denver, CO 80262.

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ASSISTANT/ASSOCIATE PROFESSOR

DEPARTMENT OF PATHOLOGY

Academic surgical pathologists. The Department of Pathology, University of Maryland at Baltimore, invites applications for two positions at the assistant or associate professor level in anatomic pathology. The applicants should have an academic orientation as they will be required to be active in our teaching programs and to be active participants in major research programs involving cellular and molecular biological aspects of neoplasia, shock, and neuroimmunopathology. The applicants must possess the appropriate training and Board certification in anatomic pathology. Proficiency, interest, and certification in both diagnostic surgical pathology and cytopathology are prerequisite. Clinical pathologist is desirable but not required. Please forward your curriculum vitae to: Wolfgang J. Mengher, M.D., Ph.D., Director, Department of Pathology, University of Maryland School of Medicine, Room 7-00, MSTE, 10 South Pine Street, Baltimore, MD 21201

The University of Maryland is an Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR

THE OHIO STATE UNIVERSITY

Senior position for Ph.D. Scientist with principal interest in cytokines and molecular biology. Must have experience in molecular biology. Send curriculum vitae to: Department of Surgery, Room N-747 Doan Hall, 410 West 10th Avenue, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

PLANT VIROLOGIST, ASSISTANT PROFESSOR, 12-month, tenure-track. To develop a creative program in molecular virology, relevant to prospective applications of the viruses of crops and plants to agriculture and the environment. Excellent opportunities for departmental and interdisciplinary collaborations. Program will be expected to be primarily a teaching, research, and supervision position, and will be committed to contributing to undergraduate and graduate instruction, and supervising graduate and postdoctoral research. Closing date: 14 September 1990, or until a suitable candidate is found. Relevant Ph.D. required; postdoctoral experience preferred. Send curriculum vitae, copies of published articles, original transcripts, names of five referees, and a statement of research and teaching goals to: Dr. Ronald C. Coolbaugh, Head, Department of Botany and Plant Pathology, Purdue University, West Lafayette, IN 47907. Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR.

Department of Oral Health, tenure track, in the area of biochemistry or cell or molecular biology. Primary duties will be to develop and teach one course in the area. Preference will be given to candidates with demonstrated research potential, a record of extramural funding and with research in one of the following areas: gene regulation in mammalian cell secretory mechanisms. Applicants should possess a Ph.D. or equivalent. Adequate start-up funds and space will be provided. Salary and rank commensurate with qualifications and experience. Application deadline is 31 August 1990 or until suitable candidate is found. Submit curriculum vitae, four names of referees, and a letter describing research and teaching interests, accomplishments, and teaching experience to: Dr. David V. Colvin, Department of Oral Health, School of Dentistry, University of Louisville, Louisville, KY 40292. Equal Opportunity/Affirmative Action Employer.

PENNINGTON BIOMEDICAL RESEARCH CENTER

PROFESSOR/PROGRAM CHIEF

Applications are being accepted for the following positions:

PROFESSOR/PROGRAM CHIEF in the Molecular Biology and Infectious Disease Research Program. This is a new research program in Molecular Nutrition/Infectious Disease research with potential of transferring it to PBRC. Minimum requirements: Ph.D. or M.D. with 6 to 10 years of experience in the area of infectious disease research. Send curriculum vitae with appropriate publication record. Salary range: $70,000 to $90,000. Refer to: P.C. #9041250002.

PROFESSOR/SCIENTIST in the Molecular Nutrition and Infectious Disease Research Program. Desires currently ongoing funded research program in Molecular Biology/Molecular Nutrition with potential of transferring it to PBRC and demonstrated experience in postdoctoral training. Minimum requirement: Ph.D. or M.D. with 5 to 10 years of experience in molecular biology and infectious disease research with appropriate publication record. Salary range: $60,000 to $80,000. Refer to: P.C. #9041250005.

Submit curriculum vitae and three references by 1 September 1990.

George A. Bray, M.D.
Louisiana State University Medical Center
6400 Perkins Road
 Baton Rouge, LA 70808
Telephone: 504-765-2500
LSU is an Affirmative Action/Equal Opportunity Employer.

BOTANIST

NASA

POSITIONS OPEN

BOTANIST

Needed to teach courses in general botany and plant systematics during spring semester 1991. Position is a 9-month position, begins 8 January and ends 12 May 1991. A strong commitment to teaching is required for this position in a strong liberal arts program. Send curriculum vitae and a list of three references by 15 September 1990 to: Dr. Larry Jones, Chair, Biology Department, The University of the South, Sewanee, TN 37375. An Affirmative Action/Equal Opportunity Employer.

CELL BIOLOGIST

CellPro, Incorporated, is an early stage company focusing on developing cell separation technologies for clinical and laboratory research. The present major focus is on stem cell purification. We currently have need for a postdoc with Ph.D. experience in cell biology to develop a new field and at least 3 years postdoctoral work in experimental hematopoiesis. Experience in flow cytometry and antibody evaluation is desirable. CellPro offers competitive salaries and benefits, and an exciting environment in which to work. Send résumé to:

Director of Administration
CellPro, Incorporated
22322 20th Avenue North, Suite 100
Bothell, WA 98021

ADDITIONAL RESEARCH CENTER.

NATIONAL INSTITUTE ON DRUG ABUSE, ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION (NIDA/ADAMHA)

U.S. PUBLIC HEALTH SERVICE

CLINICAL NUTRITION RESEARCH CENTER

LABORATORY CHIEF

Applications for the immediately available position of Chief, Neuroendocrinology/Immunology Laboratory, are encouraged. The laboratory chief plans, conducts, and supervises basic and clinical research on the involvement of the endocrine and immune systems in drug abuse and dependence. Candidates must have an M.D. or Ph.D. degree and more than 5 years of relevant research and supervisory experience. The salary range is $59,000 to $78,000. Send curriculum vitae and three letters of recommendation to: Jack E. Henningfield, Ph.D., Chief, Clinical Pharmacology Branch, NIDA Addiction Research Center, F.O. Box 5180, Baltimore, MD 21224.

U.S. citizenship is required. NIDA is an Equal Opportunity Employer. ADAMHA is smoke free and drug free.

DEPARTMENT OF AGRICULTURE (USDA)

AGRICULTURAL RESEARCH SERVICE (ARS)

Supervisory veterinary medical officer/microbiologist industrial hygienist, environmental health and safety, National Animal Disease Center, Ames, Iowa. ARS is seeking a SAFETY OFFICER to lead its program on environmental health and safety at the NADC and the NADVL. The individual will be a key contributor of the NADC and the National Veterinary Services Laboratories (NVDL) of the Animal and Plant Health Inspection Service, (ii) supervise the staff of the Environmental Health and Safety Unit, (iii) develop and implement safety and health procedures, (iv) conduct investigations to identify and control biological, chemical, and occupational hazards associated with the programs of the NADC and NVDL. The Environmental Health and Safety unit services more than 500 scientists and staff conducting laboratory investigations on animal diseases at NADC and NVDL. The candidate must have knowledge and skill in communication and leadership; biological safety containment concepts; and infectious disease transmission, pathogenesis, and prevention.

Ph.D. is desirable. Must be U.S. citizen. Salary is commensurate with experience; $42,601 to $65,444. For information on the position, contact: Dr. Harley Moon, Director, NADC, telephone: 515-239-8201. For information on application procedures/forms contact: Jane E. Carr, telephone: 301-444-4569. Applications in response to this advertisement should be received by 21 September 1990. Applications must be received by 14 September 1990.

Send to: USDA, Agricultural Research Service, P.O. Box 4065, Fort Collins, Colorado 80522.

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SCIENCE, VOL. 249

SCIENCE
**POSTDOCTORAL SCIENTIST**

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has a challenging opportunity for a postdoctoral scientist to join its Immunology Section in the Department of Cell Sciences. The successful candidate will investigate the pharmacological manipulation of suppressor-cell induction for the treatment of autoimmune disease. Applicants should have experience in *in vitro* and *in vivo* immunological techniques including suppressor-cell induction/evaluation and phenotyping, antigen presentation, antibody synthesis, and delayed-type hypersensitivity; investigating the role of colony stimulating factors in suppressor-cell induction.

Qualified candidates will have a Ph.D. in Immunology, Microbiology, Biochemistry, or related field; experience in immunological techniques; knowledge and experience in biochemical purification techniques; and experience in evaluation of colony stimulating activity (soft agar techniques) desired.

Our state-of-the-art research facility is located in suburban Philadelphia near Valley Forge, PA. We offer a competitive compensation/benefits package as well as the opportunity for growth in a scientifically intense environment structured on creativity, teamwork and commitment. Please send your C.V. to: Nancy Hasson, Employment Administrator, H0146, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

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**DIRECTOR OF CHEMISTRY**

Natural Product Sciences, Inc. is a rapidly growing company developing novel pharmaceutical and agrichemical products based on natural product leads. With a strong in-house research program comprising chemistry, biology, and molecular biology and major industrial partners in both pharmaceuticals and agrichemicals, Natural Product Sciences is a leader in the natural products field.

As part of the continuing expansion of its research efforts, NPS is seeking a Director of Chemistry. Applicants should have a Ph.D. in organic chemistry with expertise in natural products/bio-organic chemistry and at least 5 years of industrial experience in the area of drug or pesticide discovery and development. The successful candidate will be responsible for directing a team of B.S. and Ph.D. chemists working on the isolation, characterization, and synthesis of natural products from a variety of plant and animal sources. Applicants should have a proven record of scientific leadership and a research record of national or international stature.

Natural Product Sciences offers competitive salaries, benefits, and the opportunity for equity ownership. Our location on the western slope of the Rocky Mountains provides an unusually beautiful and livable environment in which to pursue innovative and important science.

Please send curriculum vitae and names and addresses of three references to: Director of Personnel, Natural Product Sciences, Inc., 420 Chipeta Way, University Research Park, Salt Lake City, Utah 84108. Natural Product Sciences is an equal opportunity employer.

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**CELL CULTURE PROCESS DEVELOPMENT**

- Bio/Chemical Engineering
- Cell Biology
- Cell Separation

The Hyland Division of Baxter Healthcare Corporation, a leading manufacturer of human therapeutic products, has openings in the area of Cell Culture Process Development. This group is responsible for scale-up of the cell culture process for the production of rDNA protein biological products for human therapeutic use. Projects, ranging in scale from laboratory to pilot plant, are used to develop new cell culture-based manufacturing processes.

To support these goals, you will be responsible for cell line characterization, media optimization, equipment selection, process optimization, and on-line computer control and data analysis. Successful candidates will have expertise in the areas of cell biology, bio/chemical engineering, pilot scale cell culture/fermentation or process design/scale-up. Minimum of BS with demonstrated cell culture/fermentation skills required. MS/PhD in biochemical engineering preferred.

Our Research & Development Department is located in Duarte, CA, a suburban community northeast of Los Angeles. We offer a smoke-free work environment. Employment consideration is contingent upon the results of a drug screening test. For consideration, please send your resume or c.v. with salary requirements, in confidence, to: Becky Freeman, Human Resources, Dept. CC, Baxter Hyland Division, 550 N. Brand Blvd., Glendale, CA 91203. An Equal Opportunity Employer.

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PHYSIOLOGY AND BIOCHEMISTRY
Scripps Institution of Oceanography
The University of California, San Diego (UCSD), invites applications from scientists with an outstanding record in research and teaching for the position of professor of molecular biology, jointly sponsored by the School of Medicine (SOM) and Scripps Institution of Oceanography (SIO). Applicants are preferred at the stage of a mature professional with demonstrated potential for leadership and administrative experience or demonstrated potential for leadership. Applications should include a curriculum vitae and three or more letters of recommendation.

BIOTECHNOLOGY
INSTRUMENTATION SUPERVISORS
IOWA STATE UNIVERSITY
We seek a person to direct the operations of our university-wide nucleic acid facility for automated DNA sequencing, oligonucleotide synthesis, and related activities. A second person is sought to direct our flow cytometry facility. Both individuals will operate and support instrumentation, train and manage personnel, and conduct independent research to develop new methods, and prepare reports and grant proposals. Prior experience with automated flow cytometers is required. Minimum Ph.D., M.S. plus 3 years of experience, or B.S. plus 6 years of experience. Salary range: $25,565-$32,024, depending on experience. Applications must include a cover letter, resume, name and addresses, and telephone numbers of three references to: Walter Fehr, Office of Biotechnology, 1010 Agronomy Building, Ames, IA 50011. FAX: 515-294-4629. Deadline: 15 February 1990.

ENGINEER
Signal processing systems design. Develop high-speed, mega channel spectrum analyzers based on multi-stage filter banks and fast Fourier transforms. Design signal processing system architecture, design, board level H/W design and system testing, etc. Minimum Ph.D. in electrical engineering. Applicants must be US citizens or have US work visas. For position open immediately. Salaries commensurate with experience. Please send resume and references to: GEORGIA SOUTHERN UNIVERSITY, 1111 University Avenue, Statesboro, Georgia 30458.

DIRECTOR, MARINE BIOMEDICINE
The University of California, San Diego (UCSD), invites applications from scientists with an outstanding record in research and teaching for the position of professor of molecular biology, jointly sponsored by the School of Medicine (SOM) and Scripps Institution of Oceanography (SIO). Applicants are preferred at the stage of a mature professional with demonstrated potential for leadership and administrative experience or demonstrated potential for leadership. Applications should include a curriculum vitae and three or more letters of recommendation.

PHYSIOLOGY AND BIOCHEMISTRY
Scripps Institution of Oceanography
The University of California, San Diego (UCSD), invites applications from scientists with an outstanding record in research and teaching for the position of professor of molecular biology, jointly sponsored by the School of Medicine (SOM) and Scripps Institution of Oceanography (SIO). Applicants are preferred at the stage of a mature professional with demonstrated potential for leadership and administrative experience or demonstrated potential for leadership. Applications should include a curriculum vitae and three or more letters of recommendation.

BIOTECHNOLOGY
INSTRUMENTATION SUPERVISORS
IOWA STATE UNIVERSITY
We seek a person to direct the operations of our university-wide nucleic acid facility for automated DNA sequencing, oligonucleotide synthesis, and related activities. A second person is sought to direct our flow cytometry facility. Both individuals will operate and support instrumentation, train and manage personnel, and conduct independent research to develop new methods, and prepare reports and grant proposals. Prior experience with automated flow cytometers is required. Minimum Ph.D., M.S. plus 3 years of experience, or B.S. plus 6 years of experience. Salary range: $25,565-$32,024, depending on experience. Applications must include a cover letter, resume, name and addresses, and telephone numbers of three references to: Walter Fehr, Office of Biotechnology, 1010 Agronomy Building, Ames, IA 50011. FAX: 515-294-4629. Deadline: 15 February 1990.

ENGINEER
Signal processing systems design. Develop high-speed, mega channel spectrum analyzers based on multi-stage filter banks and fast Fourier transforms. Design signal processing system architecture, design, board level H/W design and system testing, etc. Minimum Ph.D. in electrical engineering. Applicants must be US citizens or have US work visas. For position open immediately. Salaries commensurate with experience. Please send resume and references to: GEORGIA SOUTHERN UNIVERSITY, 1111 University Avenue, Statesboro, Georgia 30458.
**RESEARCH OPPORTUNITIES**

Molecular Vaccines, a dynamic biotechnology company in the Washington, DC area, is committed to the discovery and application of novel molecular and immunologic approaches toward the development of vaccines and therapeutic agents for infectious diseases. Our expanding activities have created several openings for individuals with Ph.D., M.S., and B.S. degrees to work in the following areas:

- Immunology & Immunoassay
- Protein Purification
- Peptide & Related Synthetic Chemistry
- Mammalian & Insect Cell Culture

Successful candidates will have strong research experience and a demonstrable record of scientific productivity. Molecular Vaccines offers competitive salaries, an excellent benefits package and a unique opportunity that encourages professional growth. Applicants should submit their résumé for prompt, confidential consideration to: Molecular Vaccines, Inc.; Human Resources Department; 19 Firstfield Road; Gaithersburg, MD 20878.

**MOLECULAR VACCINES INC.**

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**Nestlé**

Would you like to use your scientific within an international food company? Are you looking for a position where you can use your negotiating talents and your sense of diplomacy? Our Legislation Department is seeking a

**BIOTECHNOLOGIST**
(MOLECULAR BIOLOGY AND GENETICS)

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**FOOD TECHNOLOGIST**

who will be responsible for

- the supervision of the development of food legislation at a national and international level in the above fields
- active participation in the preparation of new legislative texts
- assistance to the international headquarters in Vevey and to operational companies abroad.

For this position we require:

- University degree in biotechnology, environmental sciences or food technology
- Several years experience in the above fields
- Knowledge of French, English and German
- Good negotiating and communication skills

Kindly forward your application, accompanied by the usual documents, to: Mr. E. Brambilla, Personnel Department, Nestlé, 1800 Vevey.

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**Director of the Environmental Criteria and Assessment Office, Cincinnati, Ohio**

The U.S. Environmental Protection Agency is seeking highly qualified candidates for the position of the Director of the Environmental Criteria and Assessment Office, Office of Health and Environmental Assessment, located in Cincinnati, Ohio, a senior executive level position. This Office, a component of EPA's Office of Research and Development, has major responsibilities in the Agency for the scientific assessment of the risks imposed by environmental pollutants on human health and the environment. The Office serves as a focal point for the preparation of scientific risk assessments and for providing data, advice and information to support other Agency Offices which have responsibility for making regulatory decisions regarding the control of environmental hazards in the United States.

Applicants should have a degree in the health or life sciences, medicine, or a related field, and professional experience demonstrating scientific competence and leadership as well as management experience. Experience in human health risk assessment, related research or public health protection is desirable. The submission procedures and the technical and executive qualifications described in the formal Vacancy Announcement must be met. Call or write for a copy of the Announcement to: Chaunta Gladney, EPA Executive Resources Staff, PM-224, 401 M Street, SW, Washington, DC 20460, telephone: 202-382-3328. Applications must be postmarked by September 25, 1990. EPA is an Equal Employment Opportunity Employer.
FACULTY POSITION

POSITIONS OPEN

FACULTY POSITION in cell and molecular biology, University of Connecticut Health Center. The Department of Microbiology is seeking to fill a tenure-track position in cell and molecular biology to begin August 1990. Candidates whose research involves the application of genetic, biochemical, and molecular techniques to fundamental problems in cellular, molecular, or developmental biology are encouraged to apply. Areas of interest include, but are not limited to: cell division, differentiation and development, gene regulation, and protein-nucleic acid interactions. A background in genetics or protein structure-function would be especially desirable. Applicants should have completed postdoctoral experience and the ability to develop a high-quality research program and to teach effectively at the graduate level in the program for molecular biology and biochemistry. Applications should include a complete curriculum vitae including description of research experience and future research plans, copies of the candidate’s most significant publications, and names of at least three persons who may be contacted for references. All correspondence should be submitted to: Dr. L. Rothfield, Search Committee, Department of Microbiology, University of Connecticut Health Center, Farmington, CT 06030. An Equal Opportunity/Affirmative Action Employer, M/F/V.

FACULTY POSITION

IN CHILD PSYCHIATRY RESEARCH

The Department of Psychiatry of the School of Medicine, University of California, San Francisco (UCSF), is seeking candidates for an additional academic faculty position in a research program who have records of research in developmental neuroscience and demonstrated expertise in molecular biology. In addition to a basic research role, the successful candidate will be expected to participate in core teaching of child and adult residents as well as medical students and to supervise trainees on research projects. The position will be at the ASSISTANT PROFESSOR level in a tenure-track appointment. Candidates must be Board-eligible or Board-certified in child psychiatry, who also have received formal training in a laboratory science will be preferred. Laboratory space and start-up funds will be provided, and a joint appointment in a relevant basic science department will be offered if appropriate. The position will be available on or before 1 July 1991, and applications must be received by 30 September 1990. Please send résumé to: David R. Cox, M.D., Ph.D., Search Committee Chair, University of California, San Francisco, 401 Parnassus Avenue, Box ADM, San Francisco, CA 94143-0984. UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

HISTOLOGIST/CELL BIOLOGIST

Tenure-track FACULTY POSITION. Department of Physiological Sciences, College of Veterinary Medicine, Oklahoma State University. Ph.D. degree or equivalent in histology is prerequisite. D.V.M. degree desirable but not required. Person in this position will teach histology to veterinary medical students and maintain an active research program in histology. Rank open. Salary, $27,000. Send résumé and names of three references by 31 August 1990 to: Dr. L. E. Stein, 264 VM, College of Veterinary Medicine, Oklahoma State University, Stillwater, OK 74078. Telephone: 405-744-8081. FAX: 405-744-5278. An Equal Opportunity/Affirmative Action Employer.

MEMBRANE BIOPHYSICIST

A newly founded Southern California biotechnology company has a need for an experienced, energetic, and creative membrane biophysicist. The successful candidate will establish a program directed to screening ion channel blockers using single channel recording techniques in reconstituted lipid bilayers. A Ph.D. in biophysics (preferred), physiology, biochemistry, pharmacology, or related disciplines, and a minimum of 2 years of relevant postdoctoral experience are required.

For confidential consideration, qualified candidates are encouraged to submit curriculum vitae and the names of three references to: William F. McLaughlin, President Symphon Technologies P.O. Box 295 Newport Beach, CA 92659 We are an Equal Opportunity/Affirmative Action Employer.

Molecular Biologist/Ph.D.

POSITIONS OPEN

Water column MICROBIOLOGIST/BIOGEOCHEMIST. Senior tenure-track faculty position in the Department of Marine and Coastal Sciences. Strong record of publication required. California grant support required for appointment. Teaching in area of specialization at the graduate/undergraduate levels and training of graduate students expected. Salary range: $29,500 to $35,000. Applications will be accepted through 14 September 1990, to: Dr. Frederick Grasse, Institute of Marine and Coastal Sciences, Box 231, Rutgers University, New Brunswick, NJ 08903-2314. Rutgers is an Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGIST

$3120 TO $3891 MONTHLY

Will be responsible for implementing a monitoring program for detection of Legionella in potable water systems. Desired candidate should have either an M.S. or Ph.D. with emphasis in environmental microbiology and environmental molecular biology. A thorough technical and theoretical knowledge of Legionella and detection techniques is required. Candidate should possess skills in current gene-probe, culture methods, and immunology. Must be capable of designing and performing experiments and writing research reports. Effective oral and written communication skills are required. Desire data management expertise including experience with computer software. Prefer applicants with background in drinking water microbiology. The Metropolitan Water District offers an excellent benefit package and working conditions at our conveniently located facility (approximately 12 miles east of downtown Los Angeles). If interested, please submit résumé to: The Metropolitan Water District, Division of Environmental Sciences, 14 South Sepulveda, 90-187 AKP (SCI), P.O. Box 54153, Los Angeles, CA 90054. Equal Opportunity Employer. M/F/V.

MOLECULAR BIOLOGIST

DIVISION OF ONCOLOGY

DEPARTMENT OF MEDICINE

EVANSTON HOSPITAL

NORTHWESTERN UNIVERSITY

Applications are invited for an individual with primary appointment in the Division of Medical Oncology within the Department of Medicine at Evanston Hospital, a major affiliate of Northwestern University Medical School. Applicants should have a Ph.D. and postdoctoral training in molecular biology relating to the study of malignant diseases. We are seeking an individual who will develop an independent basic molecular biology research program in oncology, collaborate with other members of the oncology division, and the Northwestern University Cancer Center. Responsibilities include investigating human malignancy, and participate in medical student and graduate teaching programs. Candidate will be eligible for a university faculty appointment. Initial laboratory support is available.

Applicants should send curriculum vitae, a brief description of previous research and teaching experience, the names and addresses of at least three references to: J. Torbenson, M.D., Head, Division of Medical Oncology, Evanston Hospital, 2650 Ridge Avenue, Evanston, IL 60201.

An Equal Opportunity Employer, M/F.

MOLECULAR GENETICIST

M.D./Ph.D.

Applications are invited for a research scientist position in the molecular genetics of psychiatric disorders. Experience in, or willingness to learn, genetic mapping using linkage analysis, linkage analysis of twin and family data, gene cloning, chromosome walking, and cDNA library construction is highly desirable. Interested parties should forward curriculum vitae and references to: Susan Folstein, M.D. The Johns Hopkins University Department of Psychiatry Division of Psychiatric Genetics 600 North Wolfe Street, Meyer 2-181 Baltimore, MD 21205

Affirmative Action/Equal Opportunity Employer.

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SCIENCE's recruiting service is the most effective way to meet the job market's largest and best-qualified pool of candidates. Call today to find out how to reach the scientists in your area. Institutional or non-profit clients may call 202-326-6555. FAX: 202-682-0816.

ORGANIC CHEMIST/BIOCHEMIST

The Division of Medical Genetics, Department of Pediatrics of Emory University School of Medicine, has a position available for an organic chemist/biochemist. This position involves applied organic chemical research and some laboratory service for the diagnosis of metabolic diseases. The successful candidate will lead the section specializing in organic analysis of physiological fluids. Minimum requirements include a master of science degree and knowledge of gas chromatography/mass spectrometry for an entry level as a research associate. Advancement to faculty position is a potential for applicants with a doctoral degree. Starting salary is negotiable and will depend on qualifications. Send applications, curriculum vitae, and three letters of references to: Louis J. Elias, II, M.D., Director of Medical Genetics Department of Pediatrics Emory University School of Medicine 2404 Ridge Ridge Drive Attn: C.V. Mail Stop 0752 Closing date for application is 1 September 1990. Emory University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

JUNIOR PATHOLOGIST, PVAMC. Full-time staff position at the Philadelphia Veterans Affairs Medical Center for a junior pathologist with expertise in molecular pathology, for diagnostic hybridization, for application in an active AIDS diagnostic laboratory and in the teaching of residents and medical students. Routine and special section of pathology, laboratory medicine, and quality assurance reviews; daily evening and night call for emergencies every other week. Weekend emergency call on duty every other week; ability to competently perform an autopsy with minimal assistance is essential. Experience in forensic pathology and in tropical diseases (parasites and infec-
tious) is desirable. Reply to: Box 76, SCIENCE.

POSTDOCTORAL POSITIONS

Available immediately to study effects of hypertension on gene expression in the cardiovascular system. Projects will involve effects of growth factors on extracellular matrix components both in cardiac and vascular cells. Experience in molecular biology desirable. Applicants should send curriculum vitae and names of references to: Peter Brecher, Ph.D., Cardiovascular Institute, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

Cell/molecular biologist wanted to study the role of antioxidant enzymes in carcinogenesis. Experience with immunogold labeling and/or ultrasmall morphometric analysis is desirable. Experience with rodent in vivo models (with or without xenografts) with excellent fringe benefits. Send curriculum vitae and addresses of three references to: Dr. Terry Folts, Memorial Hospital and Medical Center, 2500 Overlook Terrace, Madison, WI 53705. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available in neuromedendocrinology. Applications are invited from persons with a Ph.D. or M.D. who have a neuroendocrine group investigating the roles played by neuromediators in central disorders and in small-cell carcinomas. Salary may be below NIH level. Experience in receptor and/or molecular biology preferred. Send curriculum vitae and three letters of reference to: Dr. William G. North, Department of Physiology, Dartmouth Medical School, Hanover, NH 03755. Dartmouth College is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

In molecular car
diovascular pharmacology. Available immediately for a recent Ph.D. in pharmacology, physiology, or biochemistry. Position is related to the molecular pharmacology of purine receptors and related G proteins. Salary NIH level. Experience in receptor and/or molecular biology or pharmacology preferred. Send curriculum vitae and three letters of recommendation to: September 1, Dr. Steven S. Mistal, Department of Pharmacology, East Carolina University, Greenville, NC 27858. Federal law requires proper documentation of qualifications at the time of employment. Affirmative Action/Equal Opportunity Employer.
DEOXYOLIGONUCLEOTIDE ANALOG DEVELOPMENT

Amgen has emerged as an innovative leader in the research and development of human therapeutics through applied biotechnology. As a result of our continued growth, we have opportunities available in Deoxyoligonucleotide Analog Development in our DNA Chemistry Group, located in Boulder, Colorado, for the following positions:

RESEARCH SCIENTIST AND POSTDOCTORAL RESEARCH POSITIONS

The responsibilities of these positions include developing and executing new strategies for the synthesis and isolation of oligodeoxynucleotide analogs.

Qualified candidates must have a Ph.D. in Chemistry, Biochemistry, or Molecular Biology, and/ or selected postdoctoral fellowship experience. Experience in nucleoside chemistry, oligonucleotide chemistry, or biochemistry is required. Supervisory experience is advantageous but not required.

Amgen offers an excellent compensation and benefits package and the unique opportunity to contribute to significant research programs on the forefront of biotechnology. If you feel that you have the necessary skills, qualifications, and motivation and would like to be part of a company that places a high priority on its human resources, send a resume, in confidence, to:

AMGEN BOULDER, INC.
Department 2352
2045 32nd Street
Boulder, CO 80301

TOXICOLOGIST

Staff position available at the Inhalation Toxicology Research Institute for a Toxicologist with orientation towards multidisciplinary team approach to solving research problems. We seek an individual with doctoral level training in toxicology who has completed a rigorous postdoctoral fellowship or possesses equivalent experience, and has relevant open literature publications. American Board of Toxicology certification or eligibility desirable. A background in chemistry, biochemistry, cell or molecular biology, pathology, immunology, particle deposition/clearance, physiology, pharmacology, pharmacokinetics, metabolism or other related fields will be considered. Competitive salary and fringe benefit package. Submit resume to Human Resources Unit. Refer to Job #103.

THE INTERNATIONAL ATOMIC ENERGY AGENCY

seeks

Head, of Soil Fertility, Irrigation and Crop Production Section
for the Joint FAO/IAEA Division of Nuclear Techniques
in Food and Agriculture,
Vienna, Austria

Applicants should hold a Ph.D. degree in soil science, plant nutrition, root biology, soil microbiology, or a related subject and have 15 years of research experience in developing countries. Relevant experience in developing countries would be an asset. Experience with international programmes and administration desirable.

The Head of the Soil Fertility, Irrigation and Crop Production Section is responsible for formulating and guiding the Joint FAO/IAEA programme to assist Member States to apply nuclear and related techniques in research relevant to maximizing efficiency in the use of soil resources and applied fertilizer and water use in agronomic and plant genotypic approaches, to enhancing soil fertility via management of biological nitrogen fixation of grain legume and trees, and to soil conservation.


UNIVERSITY OF ALASKA FAIRBANKS

SCHOOL OF FISHERIES AND OCEAN SCIENCES
Vacancy Announcement - External Vacancy
Faculty Tenure Track Position

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DEPARTMENT OF FISHERIES AND OCEAN SCIENCES

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Faculty Tenure Track Position

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POSTDOCTORAL POSITION

An elucidation of Molecular Center and three letters of which focus drugs transcriptional regulation. include: Roberts, thethetic enzymatic determinants R. Green, Microbiology, Submit equivalent, ecology, references

POSTDOCTORAL POSITION

Position available immediately for Ph.D. with training in cell biology and/or molecular genetics to work on a project related to our aspects of antigenic transformation by radiation and chemicals. Send credentials and references to: Dr. Eric J. Hall, Director, Center for Research, 630 West 168th Street, New York, NY 10032.

POSTDOCTORAL POSITION

Available 15 September 1990 at the Oregon State University (OSU) Center for Gene Research and Biotechnology for studies on the posttranscriptional mechanisms of vaccinia virus gene regulation. Salary range: $20,000 to $22,000. Submit electronic versions of recommendation letters. Send curriculum vitae and three letters of recommendation to: Dr. E. Hrubý, Department of Microbiology, Oregon State University, Corvallis, OR 97331-8804.

POSTDOCTORAL POSITIONS currently available to study the biochemistry and physiology of the 70-kD class of heat shock proteins. This class of proteins includes the brain uncoating ATPase which dissociates clathrin from coated vesicles during endocytosis. The focus on the laboratory is on the characterization of the enzymatic properties of the 70-kD heat shock proteins, in particular, the properties of the uncoating ATPase which we are presently cloning. Send curriculum vitae and three letters of recommendation to: Dr. Lois Greene, Laboratory of Cell Biology, Building 3, Room B1-22, NHLBI, National Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20892, U.S. citizenship is required. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

MOLECULAR BIOLOGY

A position is available to study the molecular genetics of Ehrlichia ruminantium, an obligate intracellular parasite of ruminants. The project involves elucidation of the structural features determining virulence in the hemagglutinin and the mechanism of transcription activation. Interested candidates should send their curriculum vitae and the names of three references to: Dr. Yoshihiro Kawaoka, Department of Virology and Molecular Biology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS Available in an NIDA-sponsored training program in pharmacology of drugs of abuse. Preceptors and research areas available include: behavioral pharmacology, Dr. S.R. Farber, electropharmacology of 5-HT and hallucinogens; J. P. Green, receptor-mediated control of transmitter release; R. Iyengar, role of cyclic nucleotides in the nervous system in general pharmacology and tolerance; C. Molinex, peptide processing; M. Orlovski, peptide metabolism; J. Roberts, opioid gene expression; B. Schachter, opiate abuse and drug discrimination; Dr. W. Winokur, molecular determinants of drug action; S. Wilk, regulation of TRH. Candidates must have either a Ph.D., M.D., or equivalent degree in a relevant field. Send a curriculum vitae, a letter describing research experience and the preceptors/projects of interest in the training program, and the names and addresses of three references to: Dr. J. Goldfarb, Department of Pharmacology, Box 1218, The Mount Sinai School of Medicine, One Gustave Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately to study regulation of protein kinase C and/or sphingolipid biochemistry. Submit curriculum vitae and three letters of recommendation to: Dr. Y. Tung, Department of Medicine, Box 3555, Duke University Medical Center, Durham, NC 27710.

POSTDOCTORAL POSITION

Available 1 September 1990 to perform a comprehensive expression of U14 snRNA, an intron-encoded snRNA essential for RNA processing. Experience in molecular biology is required. Experience in RNA synthesis/structure at the molecular level is preferred. Send curriculum vitae and three letters of reference to: Dr. E. Stuart Maxwell, Department of Biochemistry, Box 2272, North Carolina State University, Raleigh, NC 27695.

POSTDOCTORAL POSITION

An October 1990 position exists for at least 2 years to study the molecular biology of bovine viral diarrhea virus; initially to examine the genomic relationship between 12 inter- species. Refer- ences include a Ph.D. in molecular biology, virology, or related field and research experience in molecular biology (e.g., cDNA cloning techniques). Send curriculum vitae and three letters of reference to: Dr. A. J. Gentz, Department of Veterinary Science and Microbiology, North Dakota State University (NDSU), Fargo, ND 58105. NDSU is an Equal Opportunity Institution.

POSTDOCTORAL POSITION

Available immediately (renewable) for Ph.D.'s to study the control of gene expression by dioxin. Experience in general recombinant DNA techniques, protein purification, cell culture is advantageous, however, highly motivated applicants in general molecular biology areas are encouraged to apply. Send curriculum vitae and names/address of three references to: Dr. R. N. Kurli, Program in Clinical Tumor Immunology, Roger Williams General Hospital, 825 Chalkstone Avenue, Providence, RI 02908.

POSTDOCTORAL POSITION

ORGANIC CHEMIST. The Position Emision Tomography Program at the University of California, Los Angeles (UCLA), has a POSTDOCTORAL POSITION available. The project involves the synthesis of new biochemical probes for in vivo assessment of pre- and postsynaptic neurotransmitter function. Applicants must have a Ph.D. degree in synthetic organic chemistry. Opportunity for expanded knowledge and training in this rapidly growing field. Salary range: $30,020 to $34,164 per year, depending on qualifications, plus fringe benefits. Send resume to: Dr. Jorge B. Barrio, UCLA School of Medicine, Division of Nuclear Medicine and Molecular Pharmacology, 2075 Westwood Avenue, Los Angeles, CA 90024. UCLA is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

A POSTDOCTORAL POSITION is available immediately in the area of neuroimmunology. Research involves (i) the cellular and molecular consequences of dual signaling of T-cells through their beta adrenergic and T-cell receptors and (ii) defining the cellular and molecular defect(s) in the responsiveness of T-cells obtained from patients with gilomas. Strong background in cell and molecular biology or immunology desirable. Please send curriculum vitae and names of three references to: Dr. Y. Tung, Department of Microbi- ology and Immunology, University of Kentucky Medical Center, MS-401, Lexington, KY 40536-0044. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Position available for an individual with a Ph.D. and experience in molecular biology. The successful applicant will be engaged in research on the biochemical and molecular mechanisms by which angiotensin peptides metabolize and stimulate smooth muscle to mediate cardiac muscle cell growth. There will also be the opportunity to engage in research defining the role of a novel factor (Bax) or calcium sensitization system in mediat- ing cardiac muscle cell growth, with an emphasis on the regulation of the precursor genes for this system. Competitive stipend is available. Send curriculum vitae and three letters or names of reference to: Dr. Kenneth M. Baker, Weiz Center for Research, Geisinger Clinic, Danville, PA 17822. Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available 1 September 1990 to study regulation of synthesis and assembly of the endoplasmic reticulum. Since our experimental approaches are based on recombinant DNA technology and gene expression systems, applicants should have a strong background in molecular biology and be familiar with recombinant DNA technology. Send curriculum vitae and three references to: Dr. Michael Green, Department of Microbiology, St. Louis University School of Medicine, 825 S. Grand, St. Louis, MO 63104. An Equal Opportunity/Affirmative Action Employer, Male/Female/Handicapped/Veterans.

ADVANCED POSTDOCTORAL POSITION

Available beginning October 1990 at the University of California, San Francisco (UCSF), for at least 1 year to study gene regulation of beta-adrenergic receptors. Ph.D. in molecular biology and experience in recombinant DNA techniques necessary. Chance to work inde- pendently. Send curriculum vitae and names of three references to: Dr. Joel S. Karliner, Cardiology Section (111C), VA Medical Center, 4150 Clement Street, San Francisco, CA 94121. UCSF is an Equal Opportu- nity/Affirmative Action Employer.

POSTDOCTORAL POSITION

NEUROSCIENCES

Postdoctoral positions available immediately to study regeneration and other compensatory responses of neu- rons to axotomy. The goals of our research include defining environments which support regeneration of CNS axons, identifying factors that can prevent neurons from denervation and reinnervation. The projects involve use of immunological, molecular biological, re- ceptor binding, and ultrastructural techniques. Experience in cell or molecular biology desirable but not required. Salary commensurate with NIH guidelines. Send curriculum vitae and names of three references to: Dr. M. Murray, Department of Anatomy and Neurobiol- ogy, Medical College of Pennsylvania, Philadelphia, PA 19129. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

Available immediately in the field of cell-cell interactions involved in yeast mating. One project involves the role of cell surface glycoproteins in interactions between cells of opposite mating type. A second project involves the phenomenon of growth pathway and the role of a G protein in this pathway. Send applications, including names, addresses, and telephone numbers of three references to: Janet Kerjan, Department of Microbiology, University of North Carolina, Genetics, Given Building, The University of Ver- mont, College of Medicine and College of Agri- cultural Sciences, Burlington, VT 05405. The University of Vermont is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN CELL AND MOLECULAR BIOLOGY OF HUMAN PHAGOCYTIC CELLS

Two postdoctoral research positions are available in the Department of Microbiology and Immunology of the University of Louisville School of Medicine. Research on human neutrophils and monocyte/macrophages centers on characterizing cytotoxic proteins and second messenger systems linked to various mem- brane receptors responsible for responses to bacteria, immune complexes, virus-infected cells, and tumor cells. Molecular approaches include the identification of receptor genes to determine functional sites for ligand binding, cytokine attachment, and association with protein kinases. This is combined with immunologi- cal approaches such as monoclonal antibody and flow cytometry. Send curriculum vitae and three recommenda- tion letters to: Dr. Gordon D. Ross, Chairman, Department of Microbiology and Immunology, Uni- versity of Louisville, Louisville, KY 40292. The Uni- versity of Louisville is an Equal Opportunity/Affirmative Ac- tion Employer encouraging women and minority applicants.

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U.S. FOOD AND DRUG ADMINISTRATION (FDA)
CENTER FOR DRUG EVALUATION AND RESEARCH

PHARMACOLOGISTS, TOXICOLOGISTS, & PHARMACOKINETICISTS SOUGHT TO review data supporting Investigational New Drug Applications (IND’s), New Drug Applications (NDA’s), and Abbreviated New Drug Applications (ANDA’s) as part of FDA’s regulation of new and generic drug development in the United States. These positions offer an excellent opportunity to attain broad multidisciplinary expertise in pharmaceutical research and development, and regulatory affairs. A PhD in pharmacology or toxicology with at least one year of postdoctoral experience is highly desirable.

Positions in the following review divisions are available:
Cardiovascular and Renal, Neuropharmacologic, Oncologic, Pulmonary, Radiodiagnostics, Endocrine and Metabolic, Anti-Infective, Anti-Viral, Anti-Inflammatory, Anesthetic and Generic Drug Products.

Full-time civil service positions are available in the Washington, D.C. metropolitan area. Salary range $35,825-$55,381 per year depending upon qualifications. Commission in the U.S. Public Health Service and commensurate pay scale may also be possible.

Send detailed resume or curriculum vitae with bibliography to:
Health and Human Services
Division of Human Resources
Management, Room 4B-18
5600 Fishers Lane
Rockville, MD 20857
Attention: D.D.Dwyer

Candidates must meet all civil service requirements, including citizenship.

FDA is an Equal Opportunity Employer

RESEARCH MANAGER
MOLECULAR PHARMACOLOGY

The R. W. Johnson Pharmaceutical Research Institute is currently seeking an experienced Research Manager to head the Molecular Pharmacology group at the Toronto, Canada site. The successful candidate will lead a group of scientists in a new drug discovery program focusing on the use of cloned receptors. Initial emphasis will be on the use of nuclear receptors to discover novel hormone agonists and antagonists.

The successful candidate should be a PhD with a strong background in both pharmacology and molecular biology. Previous training in reproductive endocrinology will be an asset. Applicants must possess strong communication and interpersonal skills with an impressive publication record and proven experience in the management of scientists at different levels.

Please forward your curriculum vitae and references to: Mr. Pelly Shafo, Human Resources, R. W. Johnson Pharmaceutical Research Institute, 19 Green Belt Drive, Don Mills, Ontario M3C 1L9 Canada.

AGRICULTURAL BIOTECHNOLOGY RESEARCH

Postdoctoral Associate

CIBA-GEIGY Agricultural Division’s Biotechnology Research Unit in Research Triangle Park, NC is leading the way in creating new plants in the laboratory which cannot be developed through traditional breeding alone. Our goal is to develop novel types of seeds, resulting in plants that are more tolerant to environmental stress, disease and even agricultural chemicals. Plant tissue culturists are involved in regenerating healthy, fertile plants containing new genetic information.

The Postdoctoral Associate we seek will conduct research into the molecular basis of regenerability of maize cell cultures. This is an outstanding opportunity to interact with a dynamic team of scientists, and to take advantage of our considerable maize cell culture and molecular biology expertise in developing innovative study approaches.

Qualified candidate will have a PhD in an appropriate plant science discipline, preferably with plant cell culture experience relevant to the research topic.

CIBA-GEIGY offers career support and advancement opportunities, as well as a competitive salary and generous company-paid benefits. Please forward a resume, including three letters of professional reference and reprints of any published research, in confidence to: Dr. Mary-Dell Chilton, CIBA-GEIGY Corporation, PO Box 12257, Research Triangle Park, NC 27709. We Are An Equal Opportunity Employer M/F/H/V.

Science Serving Mankind

CIBA-GEIGY
THE UPJOHN COMPANY
Director, Cell Biology

The Upjohn Laboratories Division of The Upjohn Company, a worldwide leader in pharmaceutical research, is seeking a Director to lead our Cell Biology Research Unit as well as maintain their own active research effort. The successful candidate will be responsible for directing a multi-disciplinary research group of 30-40 scientists and staff working in several areas of cellular and molecular biology including protein export, cellular immunology, receptor biology and second messenger systems, and growth control. The focus of the department is to use cellular approaches to complement and support drug discovery programs at Upjohn.

Qualified applicants will possess:

- A Ph.D. and/or M.D. with an established record of scientific excellence as evidenced by publications and/or patents.
- Commitment to drug discovery and development.
- Administrative experience and excellent communications skills.

Upjohn offers a competitive compensation and benefits package in addition to a stimulating, multi-disciplinary research environment at our modern laboratories in Kalamazoo, Michigan. In 1989, Upjohn committed over $400 million to research and development and is currently increasing its main research facility by 50%. Qualified and interested applicants are invited to forward their cv/resume to: THE UPJOHN COMPANY, CORPORATE RECRUITING, KALAMAZOO, MI 49001-0199. Refer to position number 5697-HA in your cover letter. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues....

International Rice Research Institute

Deputy Director General for Research

The International Rice Research Institute seeks a Deputy Director General for Research. The position becomes vacant in May 1991.

IRRI

IRRI is an international, non-profit, agricultural research institute funded by some 30 donor nations and organizations. Its goal is the enhancement of rice production and sustainability to benefit the world's 3 billion people who are dependent on rice for their livelihood and as their basic food.

Responsibilities

- Provide leadership in the establishment of research priorities and the application of innovative scientific approaches to address problems of increasing the productivity and sustainability of rice-based systems.
- Direct IRRI's multi-disciplinary research programs and discipline-oriented research divisions.
- Enhance ties with advanced agricultural research institutes.

Qualifications

- PhD, with extensive experience and a record of high quality agricultural research.
- Sound knowledge of and experience with agriculture in the developing world.
- Vision and research leadership; ability to communicate with and inspire high performance from scientists of different nationalities and disciplines.
- Proven record in research management and administration.
- Fluency in written and spoken English.

Benefits

Salary and perquisites are competitive with those of similar international institutions. The Deputy Director General for Research will live at IRRI headquarters in Los Baños, Laguna, 60 km south of Manila, Philippines.

Interviews

Interviews of short-listed applications will commence in September 1990.

Apply to

Applications with full documentation, including the names and addresses of three referees, and names of nominees should be addressed to Dr. Klaus J. Lampe, Director General, IRRI, PO Box 933, 1099 Manila, Philippines. Phone (63) 2-818-1926; FAX (63) 2-818-2097

THE UNIVERSITY OF CALGARY
MOLECULAR BIOLOGY OF RETINA

The Lions' Sight Centre at The University of Calgary Faculty of Medicine offers one or more full-time academic positions. Qualifications include a PhD, or MD with equivalent research training; substantial postdoctoral experience; and an established record of productive and fundable research in this field. Investigation of human retinal degenerations is particularly relevant.

A renewable 5-year Scholarship will be available upon successful application to the Alberta Heritage Foundation for Medical Research and/or the Medical Research Council of Canada. Salary and academic rank will be commensurate with experience.

The successful candidate(s) will be associated with an appropriate academic department, an interdisciplinary unit such as the Developmental and Molecular Biology Research Group, and the Lions' Sight Centre. Interdisciplinary collaborations will be encouraged, and 75% of time protected for research.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity Program and encourages applications from all qualified candidates, including women, aboriginal people, visible minorities, and people with disabilities.

Please send curriculum vitae, summary of career goals and research interests, and names of three references, by September 10, 1990, to:

Dr. W. K. Stell
Director, Lions' Sight Centre
The University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta T2N 4N1
FAX (403) 283-4740

Upjohn

THE LIONS' SIGHT CENTRE
**PROGRAM DIRECTOR — SCIENCE AND HUMAN RIGHTS PROGRAM**

The Directorate for Science and Policy Programs of the American Association for the Advancement of Science (AAAS) seeks a Program Director for its Science and Human Rights Program. The AAAS is a nongovernmental, general science membership organization and the publisher of SCIENCE magazine based in Washington, D.C. The Director will provide intellectual and administrative leadership for the Association’s efforts to protect and promote human rights abroad as well as in the United States.

The Director’s responsibilities will include project development and fundraising; producing appropriate publications; maintaining professional relations with scientific organizations, human rights organizations, press, Congressional committees, and U.S. State Department offices on issues of concern; organizing and conducting missions to various countries to undertake research and meet with government officials, representatives of professional associations, human rights organizations, members of the scientific community.

Position requires an advanced degree, five years experience working in human rights or closely related field or an equivalent combination of education and experience; fundraising, budget experience, demonstrated understanding of the issues affecting the advancement of science and human rights, sensitivity and good judgment, expertise in a particular geographic area, excellent writing and verbal skills, foreign language skills.

Please send a letter expressing interest along with resume and salary requirement to: Gregory Stokes, AAAS, Office of Human Resources, 1333 H Street, N.W., Suite #850, Washington, DC 20005. AAAS is an Equal Opportunity Employer.

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**ASSOCIATE SENIOR INVESTIGATOR**

SmithKline Beecham Pharmaceuticals, a worldwide leader in the health care industry, has an exciting opportunity in our Inflammation Pharmacology Group for an Associate Senior Investigator. This position will be responsible for conceiving, planning, conducting and supervising experimentation in biochemistry of inflammatory cell activation.

The successful candidate will have a Ph.D. in Pharmacology, Biochemistry, Immunology or a related discipline with two or more years of postdoctoral experience, biochemistry of inflammatory cell function experience; a good publication record; and excellent communication skills.

Based in a state-of-the-art research facility in suburban Philadelphia, near Valley Forge, SmithKline Beecham Pharmaceuticals provides a stimulating and challenging scientific environment in which to grow and excel. We offer a competitive compensation/benefits package. For confidential consideration, please submit your C.V. to: Nancy Hasson, Employment Administrator, SmithKline Beecham Pharmaceuticals, #H0148, P.O. Box 1539, King of Prussia, PA 19406-0939. EOE, M/F/H/V.

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**WORKSAFE AUSTRALIA (NATIONAL OCCUPATIONAL HEALTH AND SAFETY COMMISSION)**

Australia is introducing a new scheme of chemical notification and assessment to help ensure that hazardous substances are appropriately handled and regulated.

The National Occupational Health and Safety Commission (Worksafe Australia) is a tripartite body which leads national efforts to provide healthy, safe and productive working environments and to reduce the incidence and severity of occupational injury and disease.

The Commission is seeking an experienced executive to direct the Chemicals Notification and Assessment Scheme and administer the day-to-day operation of the Industrial Chemicals (Notification and Assessment) Act 1989. This act establishes a national system of notification and assessment of the potential hazards of industrial chemicals to workers, the community and the general environment.

**DIRECTOR Chemicals Notification and Assessment Scheme (Senior Executive Band 2)**

Sydney

**Duties:** Under the direction of the Chief Executive Officer, manage the administrative operations and exercise the legislative responsibilities of the Act. Maintain an inventory of chemical substances used in Australia and develop and manage the branch responsible for this work.

**Qualifications:** Applicants should have highly developed managerial and leadership ability, together with demonstrable knowledge, experience and mature judgement about the use and effects of toxic substances.

The remuneration package for this position totals approximately $A100,000 of which $A69,206 is the salary component.

Australian Public Service conditions of service apply and include four weeks annual leave with bonus payment, cumulative sick leave benefits, long service leave after ten years continuous service and a contributory superannuation scheme. In some circumstances, fares and removal expenses to take up duty and a short term accommodation allowance are payable.

The successful candidate will be offered appointment on a fixed term basis not exceeding five years.

Further information on this position is available from the Chief Executive, Dr Edward Emmett, (02) 265 7500. Duty statement, job description and selection criteria may be obtained from Ms Abi Gough on (02) 265 7454.

Applications addressing the selection criteria and giving full details of experience and qualifications should be forwarded to the:

Personnel Officer (Recruitment), WORKSAFE AUSTRALIA, GPO Box 58, Sydney, NSW 2001, AUSTRALIA

Applications close: Two weeks from the date of this advertisement.

Worksafe Australia has a policy of a smoke-free working environment, and is an Equal Opportunity Employer.
POSITIVES OPEN

POSTDOCTORAL FELLOWS
Postdoctoral fellow positions to study the platelet cytoskeleton. Projects include: (i) characterization of the composition and organization of the membrane skeleton, utilizing both biochemical and morphological approaches; and (ii) use of transgenic animals to study the function of specific platelet proteins. Experience in electron microscopy or molecular biology preferred. Send curriculum vitae and the names, telephone numbers, and addresses of three references to: Dr. Joan Fox, Gladstone Foundation Laboratories, P.O. Box 40008, San Francisco, CA 94140-0608.

FELLOWSHIP IN IMMUNOLOGY

THE TIAQUA FELLOWSHIP IN SKELETAL METABOLISM
JOHNS HOPKINS MEDICAL SCHOOL
The Bone Metabolism Research Laboratory studies heritable and acquired disorders of skeletal and connective tissues. Qualifications include a Ph.D. with experience in the molecular biology of collagen or skeletal matrix proteins. As stipulated by the foundation, this position is available to residents of, or those educated in, New Jersey. Applicants should submit their curriculum vitae to: Jay B. Shapiro, M.D., Division of Geriatric Medicine, Johns Hopkins Medical School, Asthma Building, 301 Bayview Boulevard, Baltimore, MD 21224.

POSTDOCTORAL FELLOWS IMMUNOLOGY
Postdoctoral fellow positions available immediately in the field of immunology. Emphasis will be on molecular and functional analysis of the major histocompatibility complex (MHC) or the biochemistry of lymphocytes. Applicants must have a Ph.D. or an M.D. degree with training in immunology, biochemistry, or molecular biology. Send curriculum vitae, a brief statement of current and future research interests, and three letters of reference to: Dr. Lorraine Fidler or Donal Murphy, The Wadsworth Center for Laboratories and Research, New York State Department of Health, Empire State Plaza, Albany, NY 12201, or to: Dr. David Lawrence, Department of Immunology, Albany Medical College, Albany, NY 12208. The Wadsworth positions are funded through Health Research Inc. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWS
Postdoctoral Fellow positions to study the platelet cytoskeleton. Projects include: (i) characterization of the composition and organization of the membrane skeleton, utilizing both biochemical and morphological approaches; and (ii) use of transgenic animals to study the function of specific platelet proteins. Experience in electron microscopy or molecular biology preferred. Send curriculum vitae and the names, telephone numbers, and addresses of three references to: Dr. Joan Fox, Gladstone Foundation Laboratories, P.O. Box 40008, San Francisco, CA 94140-0608.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE. Available immediately to study proteases in mammalian cells and their role in cancer and muscle and heart disease. Salary $12,000 to $18,000 per year for a 2-5 year period. Send curriculum vitae to: Drs. Julie Fagan and Lloyd Waxman, Animal Science Department, Rutgers University, P.O. Box 231, New Brunswick, NJ 08903. Telephone: 201-932-8858. FAX: 201-932-6996.

More than 150,000 people paid to see your ad in SCIENCE. Classified Advertising Department telephone: 202-326-6555. FAX: 202-682-0816.

POSITIVES OPEN

Marine botany. Two POSTDOCTORAL FELLOWS available starting Fall 1990. Field work experiences include: (i) phytochemistry and physiology: Photosynthetic performance, light and nutrient relations of high arctic laminariae. Seagrasses: Physiological ecology of submerged sub-tropical species. Submersed vascular plants of the Indo-Pacific. Field work experience in the Bahamas, the Mediterranean, New Zealand. Field work experience in the Bahamas, the Mediterranean, New Zealand. The applicant must have a Ph.D. or equivalent degree with relevant postdoctoral experience. Apply with curriculum vitae and three references to: Dr. Frederick B. Kraemer, M.D., Division of Endocrinology, S-005, Stanford University Medical Center, Stanford, CA 94305. An Equal Opportunity/Affirmative Action Employer.

Marine botany. Two POSTDOCTORAL FELLOWS available starting Fall 1990. Field work experiences include: (i) phytochemistry and physiology: Photosynthetic performance, light and nutrient relations of high arctic laminariae. Seagrasses: Physiological ecology of submerged sub-tropical species. Submersed vascular plants of the Indo-Pacific. Field work experience in the Bahamas, the Mediterranean, New Zealand. Field work experience in the Bahamas, the Mediterranean, New Zealand. The applicant must have a Ph.D. or equivalent degree with relevant postdoctoral experience. Apply with curriculum vitae and three references to: Dr. Frederick B. Kraemer, M.D., Division of Endocrinology, S-005, Stanford University Medical Center, Stanford, CA 94305. An Equal Opportunity/Affirmative Action Employer.

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POSITIONS OPEN

The University of California, San Diego (UCSD), is seeking a Ph.D. applicant for a POSTGRADUATE RESEARCHER (PGR). Candidates should have experience in molecular biology and retrovirology or herpes-virology to conduct research in AIDS pathogenesis and the role of viral cofactors. Position available immediately for at least 2 years. Salary range based on University of California policy. Interested individuals should send curriculum vitae with a list of three references no later than 31 December 1990 to: Stephen A. Spector, M.D., Professor, Department of Pediatrics, UCSD Medical Center, 228 Dickinson Street (H-814-H), San Diego, CA 92103.

Equal Opportunity/Affirmative Action Employer.

POSTGRADUATE RESEARCH PROGRAM IN FOSSIL ENERGY. Opportunities at Department of Energy Technology Center in Morgantown, West Virginia, and Pittsburgh. Research positions in the areas of physical sciences, engineering, and microbiology available. Degree within last 3 years required as is U.S. citizenship or PRA status. Contact: Fossil Energy Postgraduate Program, Science/Engineering Education Division, Oak Ridge Associated Universities, Box 117, Oak Ridge, TN 37831-0117. Telephone: 615-576-3456.

RESEARCH DIRECTOR

Green Seal, a non-profit organization awarding "seals of approval" to environmentally preferable consumer products, seeks a RESEARCH DIRECTOR. The director will manage research into the "life cycle" environmental impact of products, and serve as the organization's principal spokesperson on technical issues. The director must have an M.D. or Ph.D. in engineering, biology, chemistry, toxicology, or another relevant discipline and at least 7 years of experience. Excellent communication skills are a must. Preference will be given to persons with substantial management experience and a background in environmental impact assessment. Compensation will be commensurate with experience and includes excellent benefits. Send a resume and references to: Green Seal, 1733 Connecticut Avenue, N.W., Washington, DC 20009. Green Seal is an Equal Opportunity Employer and encourages applications from women and minorities.

RESEARCH MANAGER

The Regional Primate Research Center of the University of Washington seeks a research manager to administer and participate in biomedical research projects centered at its Primate Field Station in Medical Lake, Washington. The research manager will work with research investigators at the University of Washington, the NIH, and biotechnology firms to plan and develop protocols, budgets, and agreements for projects of mutual interest, will supervise the research; and will participate in the publication of findings. A doctoral degree in the biological, veterinary, or medical sciences with a minimum of 5 years of independent research and 2 years of supervisory experience in immunology, virology, bio-technology, or a related area required. Previous experience with biomedical research in private industry desirable. Experience with nonhuman primate models desirable, but not essential. Salary to $55,056 depending on experience. Please send curriculum vitae and names of three references by 24 August 1990 to: Dr. Darrell Williams, Assistant Director Regional Primate Research Center Primate Field Station Medical Lake, WA 99022

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

RESEARCH ASSOCIATE. Requires Ph.D. in physics and 2 years of experience in plasma physics. Must have published background in conservative and dissipative dynamical systems theory and familiarity with the SPARC CRAY, DEC station 3100, and VAX/VMS operating systems. Conduct research in the field of chaotic dynamics with specific focus on dissipative and conservative nonlinear dynamical systems. 40-hour week $30,000 per year. Mail resume and copy of ad to: Department of Economic and Employment Development, 1100 North Eutaw Room 212, Baltimore, MD 21201. JOB #8945103. Job location: College Park, Maryland.

GREAT PEOPLE MAKE A GREAT COMPANY

Senior Research Pharmacologist
Pos. #62186-4

The Central Nervous System Section of the Pharmacology Division at Wellcome Research Laboratories seeks an experienced, creative, biochemical neuropharmacologist to work in an interdisciplinary team setting to develop and apply new research findings to CNS drug discovery.

Candidates must have an MD, or Ph.D., in a pharmacology or biochemistry discipline plus four years of postgraduate experience in CNS research. Research experience with neurotransmitter binding assays and the development of new binding assays is essential. We are also seeking a complimentary background in transduction mechanisms and/or enzymology. Other factors to be considered include industrial experience and the interpersonal skills necessary to work with colleagues toward a group drug discovery goal.

Research Biochemist
Pos. #61533-4

The Division of Medicinal Biochemistry has an immediate need for an entry-level scientist to assist in the discovery of novel hypcholesterolemic agents that reduce serum cholesterol levels by inhibition of cholesterol biosynthesis.

Candidates must have a Master's degree in a biological or biochemical science plus two years of experience in cholesterol biosynthesis and lipoprotein metabolism, or a Bachelor's degree plus four years of experience as above. Other factors to be considered include experience with lipoprotein receptors, HPLC and immunoblot techniques, and human-derived cell lines.

The pride of working for an industry leader is one of our benefits here. But there are others more tangible...our salaries and the finest benefit program in the industry. It includes the best pension plan in the industry, comprehensive health and dental plans, an excellent savings plan...even fitness facilities. If you are interested in working for us, we would like to hear from you. Submit your resume, indicating position number in your cover letter, by September 17, 1990 to: Burroughs Wellcome Co., Scientific Recruiting and Staffing, 3030 Cornwallis Road, Research Triangle Park, NC 27709.

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919) 248-8347 in Research Triangle Park, NC or (919) 830-2997 in Greenville, NC. 3 AUGUST 1990
The Johns Hopkins University Applied Physics Laboratory, a major non-profit research and development organization has an immediate need for an experienced science editor in its Technical Publications Group. Responsibilities include editing of scientific and technical reports and journal articles, and production coordination through printing.

This position requires strong editing and writing skills acquired through at least eight years of relevant work experience with a major concentration on scientific publications. A solid knowledge of English, demonstrated through excellent facility with the language, is essential. Other requirements include a broad educational background equivalent to a BA/BS degree with coursework in scientific or technical subjects. Online editing experience is a definite asset.

We offer a comprehensive flexible benefits package, which includes three weeks annual vacation and a 100% tuition reimbursement program, and salary commensurate with qualifications and experience. Our facility is located midway between Baltimore, MD and Washington, DC.

If you meet the above requirements and are interested in this opportunity, please send your resume and salary history to:

Recruitment Office
Department LER-656S
The Johns Hopkins University
APPLIED PHYSICS LABORATORY
Johns Hopkins Road
Laurel, Maryland 20723

EOE M/F/V
U.S. Citizenship is required.

The Johns Hopkins University
Applied Physics Laboratory

THE
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Scientific recruiters can now advertise positions almost as soon as the need arises. Instead of reserving space a month or more in advance, you can now place your ad four days before the magazine mailing date. Science is mailed on the cover date.

Film (right-reading, emulsion face down) or full camera-ready art and insertion order must reach: Science, Short Close Desk, 1515 Broadway, New York, NY 10036 by NOON Mondays (except for legal holidays when material must reach New York by NOON Fridays). Because space is limited, the four-day close page will be reserved on a first-come, first-served basis, at a 15% premium. 1/4, 1/2 or full page only.

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Science, 1515 Broadway, NY, NY 10036

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POSTDOCTORAL POSITIONS

Peptide Chemistry/Immunology

Applications are invited to join a multidisciplinary team involved with studies directed towards immunotherapy for autoimmune diseases, including arthritis and diabetes. The selected individual will be responsible for:

- Design and synthesis of peptidoglycan-poly-saccharide derived peptides and study of their in vitro immunogenicity
- Study of T cell receptor structure
- Study of molecular mimicry
- Synthesis of specific T cell receptor peptides and analysis of their effects on in vivo immunoregulation

The position will be located at our state-of-the-art research facility in Research Triangle Park, N.C. For consideration, send your resume and names of references to: Human Resources Department, Job # 9141T004, Glaxo Inc., P.O. Box 13398, Research Triangle Park, N.C. 27709. (No phone calls or agency referrals, please)

An Equal Opportunity Employer M/F/H/V

Glaxo Inc.

Our belief begins with you.

Scientists

APPLIED MICROBIOLOGY

The Bristol-Myers Squibb Company Industrial Division, a leader in biotechnology and a major international manufacturer of pharmaceutical products, has two research and development positions for microbiologists in its Biological Process Development Group in Syracuse, New York.

Associate Scientist

The successful candidate will be responsible for microbial culture preservation, strain and inoculum development, and sterility testing in supporting a fermentation pilot plant and a manufacturing plant.

Qualifications include a BS or MS in Microbiology or related discipline with working experience in fermentation, diagnostic or environmental microbiology. Some supervisory experience is desirable.

BRISTOL-MYERS SQUIBB COMPANY

INDUSTRIAL DIVISION

P.O. Box 4755, Syracuse, New York 13221-4755

An equal opportunity employer M/F/H/V

Research Scientist

The successful candidate will be responsible for development of improved microbial strains through genetic manipulation and selection of industrial microorganisms.

Qualifications include a Ph.D or equivalent in Microbial Genetics or related discipline with a strong background in genetic manipulations of microorganisms. Additional experience in working with filamentous fungi or automated microbial screening is highly desirable.

Bristol-Myers Squibb offers excellent salaries, comprehensive benefits including relocation assistance and a professional working environment conducive to career development. For prompt, confidential consideration, forward your resume indicating position of interest, salary history and requirements to: MANAGER OF EMPLOYMENT.

We'll Help You Build A New Lab

Let the free Science product information service put you in touch with the vendors whose products you need.

Simply write us a letter stating the specifics about your proposed lab and the instruments and supplies you need. We will do the rest. Write to:

SCIENCE Magazine
New Lab Service Department
1515 Broadway
New York, NY 10036
POSITIONS OPEN

ASSISTANT DIRECTOR OF RESEARCH

Immediate opening for position in research development in the grants department of a major voluntary health organization. Responsibilities include development of targeted research, acting as liaison to the research community, and assisting the scientific director in other functions such as overseeing peer review of grant proposals and selection of grantee organizations. Requires a doctorate degree or equivalent in the biomedical research field as well as excellent communication skills. Send resume, salary requirement to: Box 75, SCIENCE.

Equal opportunity employer, M/F.

RESEARCH ASSISTANT

Research assistant to perform product compliance studies in support of contract research on GLP's. This position will involve the determination and analysis of possible extractions from food packaging materials. Method development and demonstrating compliance with GLP's is also essential. Requires an M.S. degree in chemistry, 1 1/2 years of related experience with GC, HP-LC, and infrared spectrophotometry instrumentation. Compensation includes a salary of $12.31 per hour/$18.46 overtime, and full benefits. This is a full-time position. Please send all inquiries to: Judy Hiedecker, Laboratories West, 206 North Street, Box 7163, Madison, WI 53707. An Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST. Responsible for the development of durability prediction methodology for the characterization and understanding of the influence of moisture, temperature, and stress on non-linear viscoelastic constitutive and failure laws of composites; and to develop joint constitutive and failure laws for reinforced composites with similar failure criteria. Will supervise one employee. Requires a Ph.D. in mechanical engineering and 3 years of experience in job offered or in mechanical engineering (composite materials). Also requires a broad background in mechanical engineering, including irreversible thermodynamics, and fracture mechanics; experience in developing specific failure criteria; and failure and strength of composite materials; practical laboratory experience in personally performing tests using servo-hydraulic systems; and performing finite element analyses using standard micro-technical sciences. Salary: $54,050 per year. Job and interview site: Moffett Field, California. Send this advertisement and resume to: Job # PC 166666, P.O. Box 9560, Sacramento, CA 95823-0560 not later than 18 August 1990.

RESEARCH ASSOCIATE

Research associate needed to develop numerical procedures for formulating algorithms that describe three-dimensional fluid flow and sediment transport, erosion and deposition. Experience in simulating sedimentary basin tectonics, subsidence, compaction, sea-level changes, hydrocarbon migration under hydrodynamic synthesis, petroleum exploration, and seismic sections, carbonate and evaporite sedimentation, and basin circulation; develop dynamic graphic displays of sedimentary simulation on Stardent graphics computers and Silicon Graphics computers; system management of Stardent and Silicon Graphics computers; manage geomatics computer groups in Department of Applied Earth Sciences; assist graduate students; help prepare proposals for research funding; publish research results; perform technical presentations and demonstrations for sedimentary basin simulation. Requires the Ph.D. in either geological engineering, geology, or geophysics; knowledge of FORTRAN, C, UNIX and other computer systems; familiarity with graphics programming on Silicon Graphics or Amdahl/Titan machines; familiarity with numerical procedures for formulating three-dimensional fluid flow and sediment transport, including expertise in implementing Navier-Stokes equations and empirical bedload and suspended-load transport models for simulating sediment transport, and deposition of clastic sediments; familiarity with theoretical procedures for describing basin tectonics, subsidence, burial and compaction. Salary: $33,000 per year, plus benefits. Additional responsibilities include three-dimensional changes as they affect coastal geomorphology. Salary: $3000 per month. The place of employment and interviews will be Stanford University, Stanford, California.

Send this ad and your resume to: Job #T16351, P.O. Box 9560, Sacramento, CA 95823-0560, no later than 24 August 1990.

POSITIONS OPEN

RESEARCH INSTRUCTOR/ASSISTANT PROFESSOR

We seek an individual trained in biochemistry/molecular biology who possesses interest and/or experience in the mechanistic details of factors that attract to, and penetrate host skin. The position, although currently non-tenured, is funded by hard and continuing contract support. Responsibilities include directing and developing a postdoctoral research program, supervising graduate students/postdoctorates and modest teaching. Grant writing and computer skills are most important. Curriculum vitae, description of research accomplishments/intents, and three supporting letters should be forwarded by individuals possessing a minimum of 3 years of postdoctorate training. For fullest consideration, resume should be submitted no later than 15 September 1990.

B. Salafsky, Ph.D.
Department of Biomedical Sciences
University of Illinois
College of Medicine at Rockford
1601 Parkview Avenue
Rockford, IL 61101

The University is an Affirmative Action/Equal Opportunity Employer.

RESEARCH PHARMACOLOGIST

Position requires a Ph.D. in pharmacology, biochemistry, or other closely related field and research experience in vivo and/or in vitro drug effects and mechanisms. Experience in this area must include expertise in various surgical procedures; proficiency with HPLC, radioanalysis, and computers in the analysis of test compounds and their metabolites; and experience in animal and bacterial development. Each study will require surgical techniques for collection of biological samples, quantifying drug/metabolites, data analysis, and proposal and report writing. Salary: $39,000 per year for a 40-hour week. Qualified applicants should contact: Mr. George Johns, Alabama State Employment Service, 3440 Third Avenue South, P.O. Box 12046, Birmingham, AL 35202-2046. Job # AL061850. Affirmative Action/Equal Opportunity Employer.

SCIENTIFIC RESEARCH ASSOCIATE. Perform research and develop control on the plasma instability using neutral network techniques. Construct novel neutral network models for graminicidal inferences. Forty hours per week, 9:00 a.m. to 5:00 p.m., $33,000 per year. Must have Ph.D. in physics. Require knowledge in edge, plasmas, neutral network, and cellular automata. Experience and knowledge in experimental and theoretical research in plasma physics and computer science. Knowledge and experience in computer hardware interfacing, data acquisition instrumentation and computer networking. Experience with computer programing for interfacing and intensive binary wave use operating systems with Assembly and programming. High-level scientific programming with FORTRAN and C, knowledge required. Contact: Dr. D. Deed, 1100 North Eustaw Street, Roon 212, Baltimore, MD 21201. CO# 8454014. Please eligible to work in the United States. Job location: College Park, Maryland.

JOINT INSTITUTE FOR LABORATORY ATMOSPHERICS

JILA operated jointly by the U.S. National Institute of Standards and Technology (formerly the National Bureau of Standards) and the University of Colorado) is devoted to research study, and teaching in atomic and molecular physics, chemical physics, laser physics, astrophysics, precision measurements, geophysical measurement, and related areas. Applications are invited for two programs:

• RESEARCH ASSOCIATESHIPS for advanced research by recent Ph.D. Applications are accepted and considered currently.

• VISITING FELLOWSHIPS for advanced research by senior scientists. Deadline for completed applications is 1 November 1990. (Please note: the deadline date is charged forthwith.) Contact: JILA, 39908.

Further information can be obtained from: Secretary, Visiting Scientists Program, JILA, Box 440, University of Colorado, Boulder, CO 80309-0440.

The University of Colorado is an Equal Opportunity/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 minorities, and disabled individuals.

POSITIONS OPEN

ASSOCIATE RESEARCH SCIENTIST. Wallingford, Connecticut. Execution of sophisticated nucleoside synthetic organic techniques involved in research of novel nucleoside structures which have useful therapeutic properties as antivirals, particularly as inhibitors of HIV. Isolate, characterize, and evaluate purity of new molecules and compounds using high field NMR, electron impact mass spectrometers, and infrared, ultraviolet, and mass spectrometers. Analysis, evaluation, and initial interpretation of experimentation concerning synthetic organic techniques. Masters degree in organic chemistry with concentration in synthesis of natural products required. Coursework must include NMR, including pro- cessing, DEPT, NOE, APT, and 2D infrared, ultraviolet, and mass spectra and elemental analysis techniques. No experience necessary. Forty hour week, $33,000 per year. Send resume to: Job Service Technical Unit, Connecticut Department of Labor, 200 Foley Brook Boulevard, Wethersfield, CT 06109. Refer to: Job Order #3073962. No phone calls accepted.

ASSISTANT SPECIALIST. Molecular and Cell Biology, Division of Biochemistry and Molecular Biology. It is anticipated that funds will be available from a grant from the National Institute of Health through August 1990, for 1 year, with the possibility of renewal, to support two individuals each at 70% of the full-time rate ($29,186, plus $3,572) to participate in research in the area of active transduction in bacteria. The individual must have a strong background in enzymology and membranology. Laboratory experience in molecular biology; general exposure to Escherichia coli and in vitro recombinant DNA techniques, in particular the polymerase chain reaction, chemical and site-directed mutagenesis. Proficiency in computer usage for searches, structural modeling, and protein alignments is also required. Candidates should have at least 3 years of postdoctoral experience, have demonstrated the ability to carry out top quality research, and have experience in supervisory and instructional capacities. Qualified candidates should send curriculum vitae, a list of references, and copies of relevant publications to: Ellie West, Division of Biochemistry and Molecular Biology, 401 Barker Hall, University of California, Berkeley (UCB), CA 94720, on or before 3 September 1990. UCB is an Affirmative Action/Equal Opportunity Employer.

SCIENCE WRITERS

Purdue University's School of Agriculture seeks two science writers. One will work on general media, the other will work with special publications. A B.A./B.S. in communication or science and 3 years of experience in science communications are required for the first position. An M.S. is preferred for the second position. Purdue is an Equal Opportunity/Affirmative Action Employer. Send resume to: Agricultural Communication, Purdue University, West Lafayette, IN 47907.

SENIOR RESEARCH SCIENTIST

The successful candidate will have a Ph.D. degree in the field of biophysics with experience in Extremely Low Frequency biomagnetics. Familiarity with methods in cellular and molecular biology is desirable. Send curriculum vitae to: Joan Abbott, Ph.D., Director of Research, Electro-Biology, Inc., P.O. Box 345, Parsippany, NJ 07054.

SENIOR SCIENTIST

The Tobacco and Health Research Institute at the University of Kentucky seeks a senior scientist with expertise in microcirculatory intravital microscopy and other imaging technology. The individual would have a masters degree and appointment as an academic scientist consistent with experience. Requirements are an M.D. and/or Ph.D. with a continuous record of research achievement and experience. In initial appointment is for a period of 3 years, with opportunity for renewal. Deadline for applications is 15 September 1990. Send curriculum vitae and three letters of recommendation to: John C. Cooper, Division of Biology, University of Kentucky, Tobacco and Health Research Institute, Cooper and University Drive, Lexington, KY 40506-0236. Equal Opportunity Employer.
Research Opportunities In Entomology
The Department of Research Specialists at Pioneer Hi-Bred International, Inc. is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. The successful applicant will join a group whose focus is providing research support to the Pioneer crop improvement effort.

Entomology Coordinator... will have responsibility for providing overall scientific direction for the insect rearing and bioassay laboratory. The laboratory provides insects for greenhouse and field screening by plant breeders and conducts bioassays to evaluate genes and gene products identified by the Biotechnology Department. A major responsibility will be the development of new, efficient insect bioassay methods for insects of corn, soybeans, sorghum, alfalfa, wheat and sunflower. The Entomology Coordinator will hire, supervise and develop project employees. The position will require extensive collaboration with Biotechnology and Breeding Department scientists. The Entomology Coordinator will also have responsibility for coordinating and supervising the activities of the field entomology manager.

A Ph.D. in entomology and 3-5 years experience in the laboratory aspects of entomology are required. Experience with insect bioassays is preferred.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity Affirmative Action Employer. Send resume with at least three references to:

Michelle Shriver
Pioneer Hi-Bred International, Inc.
Plant Breeding Division
Dept. of Research Specialists
7301 N.W. 62nd Avenue, P.O. Box 85
Johnston, IA 50131

APPLICATION DEADLINE: August 24, 1990

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AMYLIN SYMPOSIUM
La Jolla, California, January 8-9, 1991

Organizers:
Garth J.S. Cooper, Timothy J. Rink, Kenneth L. Luskey

This Symposium will cover the emerging picture of the properties and functional significance of this newly discovered peptide hormone. Invited chairpersons and speakers include the following:

Amylin & Amyloid:
Garth Cooper, Amylin Corporation
Per Westermark, University of Uppsala
Nick Hales, University of Cambridge

Molecular & Cell Biology of Amylin:
Sydney Brenner, University of Cambridge
Ken Luskey, University of Texas
Donald Steiner, University of Chicago
Garth Cooper, Amylin Corporation

Amylin & Fuel Metabolism:
Philip Randle, John Radcliffe Hospital
Andrew Young, Amylin Corporation
Dennis McGarry, University of Texas
Brendan Leighton, University of Oxford

Diabetes & Insulin Resistance:
Roger Unger, University of Texas
Jose Caro, East Carolina University
Ed Horton, Medical Center Hospital of Vermont

The Symposium will be in the Conference Center of the Embassy Suites Hotel at 4550 La Jolla Village Drive, San Diego, California 92122. A registration fee of $295 will cover: Attendance, Welcome Reception, Lunch on both days, Conference Dinner. A Poster Session is planned. Participants are invited to present their abstracts. Favorable terms for accommodations have been arranged through Embassy Suites Hotel, and meetings saver fares will be available through American Airlines. Please call the toll-free number: (800) 433-1790 at American when making reservations, and refer to Star File Number 501118C. Space is limited, so early registration is recommended.

For information on registration contact:
Ms. Lisa Dimler
Amylin Corporation
9373 Towne Centre Drive, Suite 250
San Diego, California, USA 92121
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MEETINGS

INTERNATIONAL CONFERENCE ON ELECTROPORATION AND ELECTROFOSSION 28 TO 31 OCTOBER 1990 WOODS HOLE, MASSACHUSETTS Topics include reviews of basic mechanisms, new technological developments, and future applications for cell biology, molecular genetics, and biotechnology. Please contact: Dr. Donald C. Chang, Marine Biological Laboratory, Woods Hole, MA 02578. Telephone: 508-548-3705. FAX: 508-548-1070.

ADVANCES IN NEUTRON RADIATION BIOLOGY 5 TO 7 NOVEMBER 1990 A colloquium to identify the most important scientific questions yet to be addressed in the investigation of mechanisms of action of neutron radiation for biological and medical applications. Details and registration materials: Walcoff and Associates, Department 664, 635 Slaters Lane, Suite 102, Alexandria, VA 22314. Telephone: 703-684-5588; FAX: 703-548-0426.

AMERICAN ASSOCIATION FOR CANCER RESEARCH SPECIAL CONFERENCE ON CHROMOSOMAL AND GROWTH FACTOR ABNORMALITIES IN LEUKEMIA 14 to 18 October 1990, Chatham Bars Inn, Chatham (Cape Cod), Massachusetts. Supported by a generous grant from the General Motors Cancer Research Foundation. Organizers: Peter A. Nowell, Donald M. Metcalf, and Jerry E. Shay. Contact: Peter C. Nowell, Division of Biological Sciences, University of Pennsylvania, Philadelphia, PA 19104. Information to: Karen Weissman, 800-533-1355.

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MARINE BIOLOGIST. Six years of postdoctoral work with statistics, computer experience, and publications seeks challenging position in consulting, industry, or academia. Box 80, SCIENCE.

MOLECULAR BIOLOGIST, B.S. Six years of industrial experience in DNA technology, PCR, fingerprinting. Seeks technical sales/marketing in Washington, D.C., area. Box 81, SCIENCE.

MOLECULAR BIOLOGIST/IMMUNOLOGIST, Ph.D. (1986). Four years of postdoctoral experience. Experience in transgenic animals, PCR, cloning, and other areas of immunological/biotechnology position. Box 82, SCIENCE.

NEUROPHYSIOLOGIST, Ph.D. Twenty years of experience. Sensory electrophysiology (somatosensory, auditory, cerebellar), biomedical engineering, computer science. Experience as consultant and mentor. Box 83, SCIENCE.

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SCIENCE, VOL. 249
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Norbert G. Riedel, Ph.D.
Boston University School of Medicine

Robert M. Strieter, M.D.
University of Michigan Medical Center

**Immunology**
Albert S. Baldwin, Jr., Ph.D.
Lineberger Cancer Research Center, University of North Carolina at Chapel Hill

Deborah A. Lebman, Ph.D.
Medical College of Virginia, Virginia Commonwealth University

Bryan D. Volpp, M.D.
The University of Iowa Hospital and Clinics

These outstanding, young medical scientists will receive a three-year grant, enabling them to conduct basic biomedical research. Past winners are:

**Pulmonary**

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<tr>
<th>Name</th>
<th>Institution and Years</th>
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<tbody>
<tr>
<td>Jack Angel Elias, M.D.</td>
<td>University of Pennsylvania, 1986</td>
</tr>
<tr>
<td>David H. Perlmutter, M.D.</td>
<td>Washington University School of Medicine, 1986</td>
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<tr>
<td>G. Scott Worthen, M.D.</td>
<td>National Jewish Center for Immunology and Respiratory Medicine and the University of Colorado School of Medicine, 1986</td>
</tr>
<tr>
<td>Jeffrey S. Berman, M.D.</td>
<td>Boston University School of Medicine, 1987</td>
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<tr>
<td>Thomas Ganz, M.D., Ph.D.</td>
<td>UCLA School of Medicine, 1987</td>
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<tr>
<td>John J. Murray M.D., Ph.D.</td>
<td>Vanderbilt Medical Center, 1987</td>
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<tr>
<th>Name</th>
<th>Institution and Years</th>
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<tr>
<td>Ronald L. Gibson, Jr., M.D., Ph.D.</td>
<td>University of Washington, 1988</td>
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<td>Susan M. MacDonald, M.D.</td>
<td>Johns Hopkins University School of Medicine, 1988</td>
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<td>William A. Muller, M.D., Ph.D.</td>
<td>The Rockefeller University, 1988</td>
</tr>
<tr>
<td>George H. Caughey, M.D.</td>
<td>University of California, San Francisco, 1989</td>
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<tr>
<td>Craig Gerard, M.D., Ph.D.</td>
<td>Harvard Medical School, 1989</td>
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<tr>
<td>Stephen M. Liggett, M.D.</td>
<td>Duke University Medical Center, 1989</td>
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**Immunology**

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<tr>
<td>Jonathan Braun, M.D., Ph.D.</td>
<td>UCLA School of Medicine, 1988</td>
</tr>
<tr>
<td>Ned S. Braunstein, M.D.</td>
<td>Columbia University College of Physicians and Surgeons, 1988</td>
</tr>
<tr>
<td>M. Louise Markert, M.D., Ph.D.</td>
<td>Duke University Medical Center, 1988</td>
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<td>Ralph C. Budd, M.D.</td>
<td>University of Vermont College of Medicine, 1989</td>
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<tr>
<td>Drew M. Pardoll, M.D., Ph.D.</td>
<td>Johns Hopkins University School of Medicine, 1989</td>
</tr>
<tr>
<td>Harry W. Schroeder, Jr., M.D., Ph.D.</td>
<td>University of Alabama at Birmingham, 1989</td>
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