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MENTS OPEN

TENURE-TRACK POSITION IN BIOLOGICAL CHEMISTRY THE UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

The Department of Biological Chemistry is seeking applications at the ASSISTANT PROFESSOR level for a 12-month, tenure-track faculty position. Outstanding individuals having research experience dealing with molecular aspects of gene regulation or signal transduction mechanisms are sought. The successful candidate will be expected to be active externally funded research program. Other responsibilities will include teaching biochemistry to undergraduate, graduate, medical, and dental students to support an active research environment. To forward the statement of research plans, and the names of three references to: Dr. Joseph B. Nevins, Section of Genetics, Duke University Medical Center, P.O. Box 3084, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR DEPARTMENT OF BIOCHEMISTRY COLLEGE OF MEDICINE THE UNIVERSITY OF ARIZONA

Applications are invited for a tenure-track assistant professor position. Candidates should have a doctoral degree, significant postdoctoral research experience, and demonstrated potential for the development of an independent academic career. We are seeking an outstanding individual with research interests in the application of state-of-the-art methods to investigate the regulation of eukaryotic cell processes. The successful candidate's research responsibilities will include participation in a team-taught medical biochemistry course. Applications should include curriculum vitae, a list of publications, and a summary of current research activities and future research plans. The position will remain open until filled. Women and minorities are urged to apply. Applications should be submitted to: Search Committee, Department of Biochemistry, The University of Arizona, Tucson, AZ 85721.

NUTRITION FACULTY: The University of Chicago, Nutrition Research Center, is seeking applications for a faculty position at the ASSISTANT OR ASSOCIATE PROFESSOR level. Reference will be given to individuals with training in molecular biology or stable isotope and research interests in vitamin or energy metabolism. Applications are encouraged from women and minority candidates. Brown University is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL TOXICOLOGIST

The Cooperative Extension Service and The Department of Environmental Toxicology is seeking an Extension Toxicologist up to the ASSOCIATE PROFES- sor level/tenure track to promote the transfer of new technology and new information to the public, concerned citizens, and other organizations related to toxic chemicals and their impacts on environment. The individual must have a strong background in toxicology and good written and oral communication skills.

APPLICATIONS: Send letter of interest and curriculum vitae to: Dr. Michael Sitrin, Director, Clinical Nutrition Research Unit, Box 223, The University of Chicago, 5841 S. Maryland Avenue, Chicago, IL 60637. The University of Chicago is an Equal Opportunity/Affirmative Action Employer.

PERSONNEL PLACEMENT

23 AUGUST 1991

29670.
VISITING ASSISTANT PROFESSOR in biochemistry or bio-organic chemistry, with a contract running from February or September 1992 through May 1993. The position may eventually be converted to tenure. Applicants must hold the Ph.D. degree in biochemistry or organic chemistry. Salary will be commensurate with experience. Applications will be accepted after September 1, 1991. Any inquires should be directed to: Dr. Timothy R. Rettich, Department of Chemistry, Illinois Wesleyan University, Bloomington, IL 61702. Applications considered beginning 3 weeks after first publication of this ad. IWU is an Equal Opportunity Employer and applications from women and minorities are strongly encouraged.

SURGICAL PATHOLOGISTS ASSOCIATE/ASSISTANT PROFESSOR

The Department of Pathology at Fox Chase Cancer Center, under the direction of Dr. Jose Russo, invites applications for two positions in the Division of Anatomic Pathology: one at the associate professor level and one at the assistant professor level. Requirements include the ability to participate in academic anatomic pathology educational activities and in research involving primary responsibilities in diagnostic oncologic pathology. Applicants should have experience in surgical pathology and in hematopathology and/or cytopathology. The successful candidate will be expected to begin in the Fall of 1992. Applications should include a curriculum vitae and letters of recommendation to: Professor J. Andrew McCaman, Department of Pathology, University of Houston, Houston, TX 77204-5501.

ASSISTANT OR ASSOCIATE PROFESSOR

EXPERIMENTAL PATHOLOGY

The Department of Pathology, University of Oklahoma Health Sciences Center, Oklahoma City, invites applications for a tenure-track position at the assistant or associate professor level. The positions will be in the areas of cardiovascular biology, endothelial cell biology, coagulation/clot lysis, immunology, and tumor biology. The successful candidate will be expected to establish and maintain a vigorous and funded research program and participate in teaching at the graduate level. Candidates with a demonstrated background in basic and postdoctoral research experience in an area related to his/her planned research program.

Applications should include a curriculum vitae, a concise description of research interests and goals, and the name, address and telephone number of three references to: Lawrence E. Deacon, Chairman, Search Committee, Department of Pathology, P.O. Box 26901, Oklahoma City, OK 73190. Deadline for receipt of applications is 1 October 1991. The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN BIOCHEMISTRY, BIOPHYSICS AND MOLECULAR BIOLOGY

UNIVERSITY OF IOWA

COLLEGE OF MEDICINE

The Department of Biochemistry of the University of Iowa seeks highly qualified applicants for a faculty position at the level of Associate, Full Professor, or Professor (with tenure). Applicants must have a Ph.D. or M.D. degree and should have an established research record. Salary is commensurate with experience and qualifications and will range from $50,000 to $100,000. Applications will be accepted until the position is filled.

APPLICATIONS INVITED

To: Professor J. J. Kennedy, Chairman, Department of Pathology, The University of Vermont, Burlington, VT 05405.

The University of Vermont College of Medicine and the Biomedical Sciences Program at the University of Vermont, which is fully accredited by the VLACOM, invite applications for a full-time, tenure-track position at the level of Assistant Professor, Associate Professor, or Professor. The successful applicant will participate in the teaching of basic medical and graduate students, as well as in research activities. The position is expected to begin on September 1, 1991. Applicants must hold a Ph.D. degree in biochemistry, molecular biology or related area, or a M.D. or Ph.D. degree in a related area of medicine, and must have demonstrated potential for outstanding research and teaching in the basic sciences. This position will involve responsibilities in biochemistry, molecular biology, and related areas. Applicants should submit a curriculum vitae, a list of research accomplishments, and names of three references. The Biomedical Sciences Program offers an undergraduate major in biochemistry, molecular biology, and related areas. The University of Vermont is an Equal Opportunity/Affirmative Action Employer.

SUNY/Buffalo, Buffalo, NY 14214

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FACULTY POSITION IN BIOCHEMISTRY, BIOPHYSICS AND MOLECULAR BIOLOGY

UNIVERSITY OF IOWA

COLLEGE OF MEDICINE

The Department of Biochemistry of the University of Iowa seeks highly qualified applicants for a faculty position at the level of Associate, Full Professor, or Professor (with tenure). Applicants must have a Ph.D. or M.D. degree and should have an established research record. Salary is commensurate with experience and qualifications and will range from $50,000 to $100,000. Applications will be accepted until the position is filled.

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The Biotechnical Research Department of TVA's National Fertilizer and Environmental Research Center (NFERC) has an immediate career opportunity for a leader with technical and managerial skills in the fields of microbiology, biotechnology, and biochemistry to plan, administer, and direct research and development of environmental and waste management technologies to alleviate urban, agricultural, and industrial problems.

Experience, skill, and graduate knowledge in environmental chemistry, microbiology, and related fields are needed. Ability to translate technologies from conceptualization through to practice is desirable. It is imperative that the candidate have an understanding of the responsibilities of management and the obligations of managers to the workforce. Excellent interpersonal and communication skills (both oral and written) are required.

The National Fertilizer and Environmental Research Center is world renowned for its development of innovative fertilizer products, fertilizer manufacturing processes, and nationwide cooperative agricultural programs. The center is located in extreme northwest Alabama, approximately one hour from Huntsville, two hours from Birmingham, and two hours from Memphis, Tennessee.

We offer a competitive salary, a comprehensive benefits package, and an excellent opportunity for personal and professional growth in an organization that can make a difference. Must be a U.S. citizen to apply. Please send resume to: Ms. Janice M. Skipworth, Human Resources.

National Fertilizer & Environmental Research Center
Tennessee Valley Authority
Post Office Box 1010
Muscle Shoals, Alabama 35660

TVA is an equal opportunity employer. Selections will be made on the basis of merit and efficiency as set out in the TVA Act and applicable laws prohibiting discrimination in Federal employment.
The Bioorganic Chemistry group, within our Medicinal Chemistry Department, has several positions available for innovative Scientists who wish to participate in multidisciplinary drug discovery efforts.

MEDICINAL CHEMISTS

Selected individuals will be responsible for the design and synthesis of therapeutically relevant new chemical entities. Positions are available for Ph. D.'s with 2+ years relevant postdoctoral experience and BS/MS Scientists with 3-7 years relevant experience. Demonstrated skills in synthetic organic chemistry and analytical techniques (HPLC, MS, NMR) are required, as is the ability to work independently as part of a team. Experience with peptidomimetic design and synthesis is a plus.

POSTDOCTORAL FELLOW

Individual will be responsible for fundamental studies toward the chemical synthesis of proteins and the development of new methodologies, as appropriate. Publication of results is expected. This position requires a Ph. D. in Synthetic Organic Chemistry.

Send your resume to: Human Resources Department, Job #9404-SC, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals. Please.) An Equal Opportunity Employer M/F/H/V.

Glaxo Inc.
THE WORLD HEALTH ORGANIZATION

has a vacancy with its Global Programme on AIDS at its Headquarters in Geneva for the post of

CHIEF, OFFICE OF RESEARCH

Duties: The incumbent is responsible for identifying research priorities and defining the scope and intent of studies to be undertaken; supervising the search for and selection of interested and competent researchers for such studies and the negotiation of support for the studies, and ensuring that completed research is adequately disseminated. His/her role is to effect the direction of research globally on HIV infection by encouraging other bodies to support research which WHO and GPA Governing Bodies determine as worthwhile.

Qualifications required: A diploma in medicine or a related field and/or Ph.D. in laboratory sciences, or similar discipline. Demonstrated skills in designing and conducting biomedical or epidemiological research, including ability to train researchers. Ability to negotiate with governments or scientific institutions; interpersonal skills needed for motivation of subordinates and for establishing and maintaining effective working relationships with colleagues and with researchers throughout the world. Extensive experience in biomedical or epidemiological research, including substantial time as leader of a research group. At least two years in HIV/AIDS research is required. Excellent knowledge of English or French, with a good working knowledge of the other language.

A detailed curriculum vitae with photograph should reach the following office within three weeks of publication of this advertisement quoting reference "MPR/GPA/RES" and the name of this journal:

Personnel Officer
World Health Organization
Avenue Appia
1211 Geneva 27, Switzerland

Applications from women are encouraged.
Only candidates under serious consideration will be contacted.

JT founded its Pharmaceutical Division in 1986. Since then, JT has been investing Y10 billion annually in this Division, the main pillar of JT's diversified business operations. As we approach the 21st century, our goal is to become a research-driven corporation supported by four major research laboratories and 500 research personnel. Our researchers are now working to develop innovative pharmacological agents for use against diseases of the cardiovascular and central nervous systems, metabolic disorders, inflammatory diseases, and cancer.

<table>
<thead>
<tr>
<th>Work site</th>
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<tbody>
<tr>
<td>Pharmaceutical Basic Research Laboratory (Kanazawa Ku, Yokohama)</td>
<td>Biochemistry, molecular biology, biology, &amp; basic medicine</td>
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<tr>
<td>Pharmaceutical Research Laboratory (Midori Ku, Yokohama)</td>
<td>Biochemistry, pharmacology, synthetic science, formulation, &amp; ADME</td>
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<tr>
<td>Safety Research Laboratory (Hatano City, Kanagawa Prefecture)</td>
<td>Research in toxicity &amp; safety</td>
</tr>
<tr>
<td>Head Office (Shinagawa Ku)</td>
<td>Research planning</td>
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Company outline
Founded April 1985
Capital Y100 billion
Annual sales Y2.6 trillion (est.) (1989)
Number of employees 24,200

Business operations
Everything from procurement and production to marketing of raw materials for salt & tobacco. The JT Group is also actively involved in other major industries, including pharmaceuticals, biocmcials, machinery, computer systems, printing, soft drinks, agriculture business, real estate, and other services.

Pharmaceutical Division
Newly established in November 1986, for the research & development of new medicines (for cardiovascular/cenral nervous/immune system disorders and cancer) for our aging society. Operations range from research & development to production & marketing of pharmaceuticals (Ethical + OTC). Research at a Laboratories: The Pharmaceutical Research Laboratory (Yokohama), Toxicology Research Laboratory (Hatano City, Kanagawa Prefecture, and Pharmaceutical Basic Research Laboratory (Kanazawa Ku, Yokohama) are now under construction and nearing completion. In addition, a Pharmaceutical General Research Laboratory is slated for construction in Osaka.

For further information, please contact:
Address: Mr. Takeuchi, Pharmaceutical Operations Division, Japan Tobacco Industries Ltd., Higashi Shinagawa 4-12-62, Shinagawa-ku, Tokyo 140
Tel: 03-3747-3111 (In Direct) *(Please call collect)*
POSITIONS OPEN

The Division of Neurogenetics at the New England Regional Primate Research Center (NERPRC), Harvard Medical School, is seeking new staff at nontenured faculty ranks. INSTRUCTOR positions are open for full-time research faculty. Research experience is required. Applicants must have a mature rodent CNS, in order to analyze mechanisms controlling axon growth and synaptogenesis. Previous experience in murine immunohistochemical, small animal neurosurgery, and developmental neuroscience. ASSISTANT PROFESSOR opportunities are open for experimental microtechnicians/histochemists, to analyze normal and pathological development of the nervous system in mice and primates. Familiarity with mammalian genetics and with human neurological disease is desirable. Applicants will be focusing on human neuroanatomy and neuropathology. An ASSOCIATE PROFESSOR slot is open for an individual to supervise a large mammal mouse colony and develop an independent research program that utilizes behavioral/pharmacological/genetic concepts and methods. Interest in extending research questions to primates is desirable.

Candidates should send curriculum vitae, a statement of interests, and the names of three references to: Professor Richard L. Sidman, NERPRC, One Pine Hill Drive, P.O. Box 61000, Southborough, MA 01772-9102. FAX: 508-624-8075. Women and minorities are encouraged to apply. NERPRC/Harvard Medical School is an Affirmative Action/Equal Opportunity Employer.

THE UNIVERSITY OF VIRGINIA

ENDOWED PROFESSORSHIP IN AIDS, HIV AND/OR RETROViroLOGY

The University of Virginia Health Sciences Center is seeking an outstanding scientist to lead a newly created center for the study of AIDS, HIV and/or retroviruses. Candidates should have an accomplished record of scientific research in cell biology, molecular biology or immunology. Applicants may have a research program relating to AIDS, HIV and/or retroviruses. The successful candidate is expected to provide leadership for development of new programs and the recruitment of new faculty to the center. Endowment funds are available to facilitate startup, purchase of equipment and the hiring of additional faculty. The center will be located within the Department of Microbiology and will actively participate in departmental training and research programs. The University of Virginia provides an outstanding environment and support facilities for basic research including active interdisciplinary research training programs in immunology, cell and molecular biology and cancer research. Letters of nomination or application should include curriculum vitae as well as the names of three references and should be forwarded to:

Dr. J. Thomas Parsons
Search Committee
Thulier Center
AIDS Research
Box 441, The University of Virginia
Health Sciences Center
Charlottesville, VA 22908

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

BOSTON UNIVERSITY

CHAIR, DEPARTMENT OF BIOMEDICAL ENGINEERING

Boston University's College of Engineering invites applications and nominations for the position of Chair, Department of Biomedical Engineering. The department currently has 18 full-time faculty with annual sponsored research exceeding $3 million, 61 graduate students and 130 upperclassmen. The dynamic research activities of the faculty include auditory, fields and tissues, molecular, neuromuscular, respiratory, and vision research. The department has grown steadily over the last decade, and currently has two associated centers. We seek a distinguished engineer/scientist with a proven record of research activity in his/her field. The ideal applicant will have demonstrated success in obtaining externally funded research, possess a vision of the future for the department, and have a record of leadership. A letter of interest or nomination, curriculum vitae, and the names of at least three references should be sent to: Allyn Hubbard, Ph.D., Chair, Biomedical Engineering, Boston University, 44 Cummington Street, Boston, MA 02215. Please telephone: 617-353-2815 for additional information if desired.

An Equal Opportunity, Affirmative Action Employer.

MOLECULAR BIOLOGISTS

The Cell Biology and Bone Biology groups at Merck Sharp and Dohme Research Laboratories in West Point, PA have career opportunities for two research associates. We are looking for individuals interested in studies of either potassium channels or of integrins. A M.S. degree in molecular biology, biochemistry, or a related discipline and 2-3 years of laboratory experience is required. The successful candidate will be experienced in RNA isolation and Northern analysis, generation and isolation of cDNA and genomic clones, DNA sequencing, in vitro transcription and translation, and site-directed mutagenesis. Experience with expression cloning and in situ hybridization is preferred.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles north-west of Philadelphia.

Please send curriculum vitae with references, transcripts, and a letter to: Personnel Manager, Ad #D-27, Research Personnel, WP42-2, Merck Sharp & Dohme Research Laboratories, West Point, PA 19486. EEO/AA/VH/Employer

MERCK

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NATIONAL INSTITUTES OF HEALTH

POSITIONS FOR SENIOR STAFF FELLOWS

POLYREACTIVE ANTIBODIES AND CD5+ B CELLS - Mechanism of polyreactivity; biology of CD5+ and CD5- lymphocytes; molecular cloning of molecules; production and characterization of human monoclonal antibodies of clinical relevance.

Positions available immediately. Experience in molecular biology desirable. Growing program with opportunity for Senior Staff Fellows to have technical and/or post-doctoral support. Salary commensurate with experience (range $30,000 to $50,000 per year). Send Curriculum Vitae and names of references to: Dr. Lois Salzman, Deputy Director, Immunochemistry Program, National Institute of Dental Research, National Institutes of Health, Building 30, Room 131, 9000 Rockville Pike, Bethesda, MD 20892.

NIH is an Equal Opportunity Employer.

928
The Astra Chair in Asthma Research

The Astra Chair in Asthma Research has been endowed at the University of Alberta in Edmonton with funds provided by the Alberta Lung Association (Asthma Centre campaign). Applications are now invited for this position with the intention that the incumbent will establish a Centre with the capability of performing outstanding research, teaching and clinical care in the field of asthma. The position will carry the rank of Full Professor with appropriate salary (minimum $57,415 per annum) and benefits. The successful applicant will be an M.D. or Ph.D. scientist with a proven record of achievement in asthma research. Generous infrastructure support is available and further support may be sought from external granting agencies. Enquiries are invited; applicants should send a complete curriculum vitae and the names of three referees, in confidence, by December 31, 1991, to:

Dr. E.G. King, Chair
Department of Medicine
Faculty of Medicine
2F1.19 Walter C. Mackenzie Health Sciences Centre
University of Alberta
Edmonton, Alberta, Canada
T6G 2R7

The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities, and women.

Ciba-Geigy is a major Pharmaceutical Company with an active interest and commitment to molecular Biology and its exploitation in drug discovery. A vacancy exists for a

Molecular Biologist

for a position as research scientist in the Molecular Biology Department within the Biotechnology Section, located in the Company's main R&D facility in Basel, Switzerland.

The successful candidate will join an active, well-established unit and assume responsibility for a laboratory involved in developing and applying state-of-the-art molecular biology techniques to identify, express and characterise new proteins of potential therapeutic interest. The Department also makes an important contribution to the establishment of new, advanced screening systems for drug discovery.

We are seeking to recruit an independent, highly innovative research scientist with a Ph.D. and 2-5 years postdoctoral experience. The applicant should have initiative, self-motivation, the ability to work effectively in a highly interactive, multidisciplinary research environment and have a genuine interest in applying his/her knowledge to the drug discovery process. Preference will be given to candidates whose main expertise/training is in Molecular Biology. A background in Biochemistry, Immunology or Cell Biology could also be an advantage.

Applications, including a c.v., a summary of previous experience, relevant research background and the names of two referees should be sent under ref. "SCIENCE 7861" to Mr. H. Schmid, CIBA-GEIGY AG, Personnel Department, P.O. Box CH-4002 Basel, Switzerland.

CIBA-GEIGY

EMBL

The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, Germany has a vacant position in its Outstation in Grenoble, France for a

SYNCHROTRON RADIATION PROTEIN CRYSTALLOGRAPHER

The Grenoble Outstation seeks a protein crystallographer with an interest in instrumentation to take responsibility for the design and construction of the protein crystallography station of an undulator beamline at the European Synchrotron Radiation Facility due to be operational in 1994. The beamline will provide extremely intense monochromatic X-ray beams for protein crystallographic measurements on weakly diffracting crystals (e.g. with a large unit cell) and time-resolved studies.

The successful candidate would interact strongly with ESRF physicists already working on the beamline, but would be responsible for those features of the instrument specific for protein crystallography such as camera design, choice of detector and computer facilities for data treatment.

The position would be suitable for a scientist with post-doctoral experience in protein crystallography. A fully equipped structural biology laboratory is available at the EMBL Outstation in Grenoble, which is located right next to the ESRF ring. This will enable the scientist to continue research activity preferably in projects making use of synchrotron radiation.

Further information can be obtained from Dr. S. Cusack (Tel. 76 20 72 38, Bitnet CUSACK @FREMBL51)

We offer an above-average salary, plus certain allowances depending on personal circumstances.

Please write, enclosing a CV and description of research interests, for an application form to Dr. S. Cusack in Grenoble.
**POSITIONS OPEN**

**SCIENTIFIC DIRECTOR AND CHIEF EXECUTIVE OFFICER MONTANA**

The Deaconess Research Institute in Billings, Montana, is now accepting applications for a Scientific Director and Chief Executive Officer.

Qualified candidates will have demonstrated ability to obtain external research support and develop/pursue research program(s). While no disciplinary structure has been set for the Institute, applicants should have a demonstrable P&L-related track record. In addition to research, other duties will include recruitment of up to ten additional research scientists who can attract and manage funds. This is also a key position regarding the Institute’s fund raising efforts. Billings is Montana’s largest city with an incredible array of recreational opportunities in every direction. Yellowstone Park is just 2 hours away by car. Hunting, fishing, boating, camping, hiking, skiing and sightseeing are just minutes from your doorstep.

For additional information call 1-800-325-1774. Send resumes describing research and program development experience to: Employment Coordinator—M, P.O. Box 27000, Billings, MT 59107. Equal Opportunity Employer.

Deaconess Research Institute, Inc.

U.S. Department of Agriculture (USDA) Forest Service STATION DIRECTOR, Southeastern Forest Experiment Station. Position is located in Asheville, North Carolina. The position is responsible to the Chief of the Forest Service for providing leadership in the formulation and direction of research and scientific activities in natural resources. Responsibilities encompass the important and critical research needs of the states of Florida, Georgia, North Carolina, South Carolina and Virginia. This position is in the Senior Executive Service, salary range is $93,000 to $108,000 per annum. All applicants must submit (1) application for federal employment (SF 171) typed, (2) supplemental applicant statement, (3) copy of most recent supervisory appraisal of performance and (4) Senior Executive Candidate Development Program graduates must provide proof of OPM certification, and (5) Form AD-779, Biographical Sketch. To obtain the position apply to: Judith Chastain, Bogart Delafield Ferrier, 60 Washington Street, Morristown, NJ 07960.

**DIRECTOR OF TECHNOLOGY ANALYSIS IN HEALTHCARE CONSULTING FIRM**

Position available immediately in an established life sciences consulting firm in northeast United States. Ph.D. in basic medical sciences or M.D. degree with industrial experience preferred. Duties include directing technology-based projects for clients in the pharmaceutical, diagnostic and biotechnology industries and providing technology analysis support for strategic planning projects. Must be a strong communicator with excellent written and verbal skills. Salary commensurate with experience. Send resume to: Judi Chastain, Bogart Delafield Ferrier, 60 Washington Street, Morristown, NJ 07960.

**POSITIONS OPEN**

**DIRECTOR, ONCOLOGY CENTER**

The Johns Hopkins University School of Medicine and The Johns Hopkins Hospital are seeking a physician-scientist to lead the OncoLOGY center, which is also a Comprehensive Cancer Center. The center is one of the largest academically integrated programs in the nation. The successful candidate is expected to bring a leadership and demonstrated qualities and demonstrated outstanding abilities in research and teaching as well as the capability to direct the service mission. Please send letter of application, curriculum vitae and bibliography to:

Dr. John D. Stobo
Chairman, Search Committee
The Johns Hopkins University and
The Johns Hopkins Hospital
1870 Orleans Street
Baltimore, MD 21205

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**PRODUCT STEWARDSHIP MANAGER**

Albright and Wilson Americas, a manufacturer of quality industrial and specialty chemicals, is seeking an experienced life science professional to manage our Product Stewardship Program. This will include the preparation of material safety data sheets, evaluation and assessment of product safety issues and ensuring governmental compliance in countries of product end use, i.e. U.S. EPA, TSCA, PIFSA, OSHA/Hazard Communication, Canadian WHMIS, etc. Additionally, this position will involve functioning as company representative on industry task groups and committees. Candidates must only respond who have a B.S. in life sciences and an M.S. in toxicology. A Ph.D. in toxicology is desired. In addition, 5 to 10 years of industrial work experience in product safety work in the chemical industry is preferred.

As a division of the Fortune 50 company Tennon Inc., we offer a competitive salary and an excellent benefits package. Please send letter of interest, resume, and salary requirements to: Employee Relations, Albright and Wilson Americas, P.O. Box 26229, Richmond, VA 23260-6229. Equal Opportunity Employer, M/F/H/V.

**FACULTY POSITIONS IN MACROMOLECULAR STRUCTURE/FUNCTION**

The Florida State University (FSU) invites applications for two tenure-track positions at all levels from individuals with research interests in structural/functional aspects of biological macromolecules. Areas of expertise may include molecular biology, x-ray crystallography, NMR spectroscopy, and high resolution electron microscopy. Applicants for the New Program in Structural Biology will be made in the Departments of Biological Science and/or Chemistry and individuals will be physically located in the Institute of Molecular and Cellular Biophysics. Eight new faculty members will be added to the program over the next several years and a grant from the Locle P. Markey Foundation will provide the funds to establish state-of-the-art facilities required for the investigation of structure/function relationships in biological systems. Successful candidates will have the opportunity to interact with related programs at FSU such as the Supercomputing Computations Research Institute and the National High Magnetic Field Laboratory.

Applicants should send curriculum vitae, a brief statement of current and future research plans, and names and addresses of three references to: Search Committee, The Institute of Molecular and Cellular Biophysics, B-165, The Florida State University, Tallahassee, FL 32306-3015. Florida State University is an Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY**

The Department of Biochemistry and Molecular Biology is seeking applicants for a number of positions, preferably at the Associate or Full Professor level. Outstanding individuals with active, funded research programs and teaching experience are being sought. Applicants should send curriculum vitae, list of publications, description of research and names of three references to: Chair, Search Committee, Department of Biochemistry and Molecular Biology, College of Osteopathic Medicine (TCOM), 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2690. TCOM is an Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITIONS IN MOLECULAR, CELLULAR, AND DEVELOPMENTAL BIOLOGY**

University of South Carolina

The Department of Biological Sciences at the University of South Carolina invites applications for tenured-track faculty positions in molecular, cellular, and developmental biology. The department is particularly interested in individuals using cellular and molecular approaches to address fundamental problems in biology, including: membrane receptor signaling, transduction; molecular genetic mechanisms of cellular differentiation; and cell-cell interactions during development. The successful applicant will be expected to develop an actively funded research program, and to participate in the department's undergraduate and graduate teaching activities. The University maintains a wide range of biotechnological core facilities, including ones for monoclonal antibody and transgenic mouse production; these facilities are readily available to all faculty and provide a strong context for competitive research environment. Attractive salaries and start-up packages are available. Interested individuals should send a detailed description of research background and interests, and three letters of recommendation to: Dr. Franklin G. Ragsdale, Search Chairman, Department of Biological Sciences, University of South Carolina, Columbia, SC 29208. The search committee will begin reviewing applications on January 15, 1996. The University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

**FACULTY POSITIONS IN MOLECULAR, CELLULAR, AND EPIDEMIOLOGY**

**FRED HUTCHINSON CANCER RESEARCH CENTER**

Facility positions at junior and senior levels will be available in the Program in Molecular Medicine in new laboratory facilities scheduled for completion in 16 months. We are seeking independent scientists with demonstrated capability in applying the tools of molecular and cellular biology to problems relevant to human disease. Areas of interest include, but are not limited to, molecular epidemiology, genetics, virology, immunology, gene therapy, stem cell biology, transgenic models, and related research. Interested scientists should send curriculum vitae, a brief summary of research interests and plans, and three letters of reference to:

Search Committee
Program in Molecular Medicine, M120
Fred Hutchinson Cancer Research Center
1124 Columbia Street
Seattle, WA 98104
Smoke-free environment. Equal Opportunity Employer. **TARGETED DRUG DELIVERY POSITION**

A full-time tenure leading position is available in the University of Nebraska College of Pharmacy for a faculty member with interests in the biological effects of drugs and chemicals who will provide expertise in biological approaches to targeted drug delivery. Biological approaches are broadly defined, to include the areas of immunology, microbiology, molecular biology, physiology, toxicology, and pharmacology. Applicants with an earned doctorate and at least one year of postdoctoral experience are sought, with preference being given to established investigators. Send curriculum vitae and names of three references to: Chair, Search Committee, 111 McCrea Hall, University of Nebraska College of Pharmacy, University of Nebraska Medical Center, Omaha, NE 68198-0025. The University of Nebraska is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

**FREE PRODUCT INFORMATION SERVICE**

Send to: SCIENCE New Lab Service Department, 1515 Broadway, New York, NY 10036.

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THE UNIVERSITY OF PAPUA NEW GUINEA

LECTURER/SENIOR LECTURER IN FISHERIES BIOLOGY (AQUACULTURE) - W021033/91

The appointee will be required to teach courses in Aquaculture and contribute to first and second year general biology courses.

Applicants should have a Ph.D. degree and/or relevant research experience and be prepared to supervise postgraduate students.

SENIOR LECTURER/ASSOCIATE PROFESSOR IN ENVIRONMENTAL SCIENCE - W061004/91

The University is seeking an experienced person to co-ordinate and teach in its inter-faculty Environmental Science programme. Applicants should have a Ph.D. or equivalent experience in Environmental Science or a related discipline. Research experience in tropical environments is highly desirable.

The appointee will also be expected to carry out research and to advise and assist at a senior level PNG and Pacific region government and non-government environmental organisations.

SENIOR TUTOR/LECTURER/SENIOR LECTURER IN MATHEMATICS - W121012/91, W121015/91

Applicants should hold an appropriate higher degree and have teaching experience at undergraduate level. Although applicants with specialisation in any branch of mathematics (including computer science) are invited to apply, the department reserves the right to appoint within a restricted area, depending on staffing circumstances. Detailed information may be obtained from the Head of Mathematics Department.

LECTURER/SENIOR LECTURER IN PHYSICAL CHEMISTRY - W031004/91

Applicants should hold a Ph.D. in Physical Chemistry; have relevant research and teaching experience to teach all areas of Physical Chemistry to undergraduates.

All staff contribute to general first year chemistry courses as well. The person appointed will also be expected to actively engage in the training of future Papua New Guinean staff. The appointment is for the 1992 academic year and preference will be given to those coming on sabbatical leave.

Salaries: Senior Tutor K19265-K24335 per annum plus 25% gratuity, Lecturer K21545-K24335 per annum plus 25% gratuity, Senior Lecturer K24335-K30405 per annum plus 25% gratuity, Associate Professor K30405-K36825 per annum plus 25% gratuity.

Applications will be treated as strictly confidential and should include a full curriculum vitae, the names and addresses of three referees and date of availability. In order to expedite the appointment procedure, applicants are advised to contact their referees to send confidential reports directly to the University without waiting to be contacted.

Applications should be forwarded to the Deputy Registrar (Staffing), P.O. Box 320, University Post Office, Papua New Guinea.

All applications close on 30th August, 1991.

T.I. TIOTI (MR), REGISTRAR

National Center for Research Resources
National Institutes of Health

CHIEF
Library Branch

Applications accepted from
August 12, 1991 to September 30, 1991

The National Institutes of Health (NIH) is one of the largest biomedical research centers in the world, with a staff of about 13,000. The NIH Library, a component of the National Center for Research Resources, provides comprehensive library services to all of the institutes, centers, and divisions that constitute NIH. It is the focal point for the exchange of information in support of research and clinical activities conducted at NIH. The Library's collection consists of approximately 160,000 bound volumes of periodicals, 85,000 books, and 3,500 journal subscriptions. The staff is made up of 54 employees, 25 of whom are professionals, with additional contract and student support.

Candidates must have an ALA-accredited advanced library degree or equivalent professional experience. Background must demonstrate progressively higher administrative and supervisory responsibilities. A background of education in the biomedical sciences is desirable. Candidates should have knowledge of and involvement with current issues and developments in health sciences librarianship and advanced technological competence in library automation and electronic information management, including experience in networking applications and use of local and wide-area networks. Candidates must have been at a level of difficulty comparable to that of the next lower pay grade (GM-14) in the Federal Service for a period of at least one year. The grade of the position is GM-15 with a salary range of $61,643 to $80,138 per annum. The selectee may be required to serve a supervisory/managerial probationary period.

Applications must be received by September 30, 1991.

Further information and qualification requirements can be obtained by contacting:

Mr. Ron Canada
National Center for Research Resources
National Institutes of Health
Building 31, Room 3B50
9000 Rockville Pike
Bethesda, Maryland 20892
Telephone: (301) 496-5621
Fax: (301) 402-6375

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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.

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SCIENCE, 1515 Broadway, NY, NY 10036

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IMMUNOLOGY

Wyeth-Ayerst Laboratories, a major division of Fortune 100 American Home Products Corporation, has the following opportunities in Immunology at its research facility in Princeton, NJ.

Associate Director

We are currently seeking an established investigator with expertise in cellular immunology or cell adhesion molecule research. The successful candidate will possess a proven track record of innovative research and will have a clear vision of future drug discovery opportunities in Immunology. Build upon our success with rapamycin to develop and manage research efforts in immunosuppression, autoimmunity, and cell adhesion molecules. You will be expected to collaborate with other investigators and maintain an active presence in the scientific community. Qualifications include a PhD in Immunology or related medical science, with a minimum of 8 years post-doctoral experience, a strong publication record in leading journals and well-developed interpersonal and verbal/written communication skills. Position #379.

Research Scientist

We are also seeking a creative immunologist with research experience in lymphocyte function, activation, and trafficking. The successful candidate will initiate collaborations with other scientists and work in a team environment to enhance our ability to identify new therapies for immunological disorders. Qualifications include a PhD in Immunology or related medical science, with a minimum of 3 years post-doctoral experience, well-developed interpersonal and communication skills, and the motivation to publish novel and innovative research findings. Position #321.

Wyeth-Ayerst offers an excellent compensation and benefits package in our highly professional environment. Our research laboratory is just minutes away from Princeton University and convenient to many other cultural, educational and leisure activities. Please forward resume with salary requirements (indicating position #) to: WYETH-AYERST RESEARCH, Personnel Manager, CN 8000, Princeton, NJ 08543-8000. An equal opportunity employer, M/F/H/V. Principals Only.

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Postdoctoral Fellowships

The Cell Growth, Damage and Repair Group in the Life Sciences Division of the Los Alamos National Laboratory is seeking postdoctoral fellows to perform basic cellular and molecular biology research in our Pulmonary Biology/Toxicology Program. Current areas of investigation include: mechanisms of acute lung injury, mechanisms of lung repair and pulmonary fibrogenesis, and lung defense mechanisms, with emphasis on pulmonary macrophage biology. We are particularly interested in candidates with experience and interest in growth factors and cell-cell dialogues in the context of cell proliferation, phenotypic expression and cell function. Individuals with backgrounds in mechanisms of acute injury and oxidative damage are also encouraged to apply. Applicants should have received their doctoral degree within the last 3 years. Postdoctoral appointments are for two years with renewal possibility for a third year. The FY’91 salary range is $36,666 to $38,619 per year. United States citizenship is required. For further information, contact Bruce E. Lehnert, Ph.D., Cell Growth, Damage and Repair Group, Life Sciences Division, MS M888, Los Alamos National Laboratory, Los Alamos, NM 87545. Telephone: (505) 667-2753.

To formally apply, please obtain an application form by calling (505) 667-0872 and have the completed application, resume, undergraduate and graduate transcripts and three external letters of reference sent to: Mary Anne With (MS P280), Human Resources Development Division PD-91-091, Los Alamos National Laboratory, Los Alamos, NM 87545. Affirmative Action, Equal Opportunity Employer.

Los Alamos
NATIONAL LABORATORY

Regulatory Affairs and Quality Assurance Opportunities

Bio-Rad Laboratories has the following positions available for candidates with excellent organizational, planning and communication skills:

Regulatory Affairs Associates

Prepare regulatory strategies and pert charts for new 510(k)’s, PMA’s, IND’s, PLA/ELA’s and international product registration documents. Assure regulatory compliance with DEA regulations and import-export requirements. Participate with research and engineering to coordinate activities of instrumentation compliance. Requires BS degree or equivalent, chemistry degree preferred and 3+ years regulatory experience. Dept. D407A.

Compliance Training Officer

Assure Bio-Rad’s Diagnostic Group and its suppliers are in compliance to US FDA CGMP, ISO 9000 and other regulatory requirements. Develop and administer the internal training program. Review product/process validation documents and maintain document change records as appropriate. Provide QA support in the Continuous Quality Improvement Process. Requires BS degree or equivalent and 5+ years Regulatory/Quality Assurance experience. Dept. 407B.

For consideration, please send resume and salary history to: Bio-Rad Laboratories, Attn: Michelle Seaton, Appropriate Dept. #, 1000 Alfred Nobel Dr., Hercules, CA 94547. An Equal Opportunity Employer, M/F/H.
FACULTY POSITIONS. University of Puerto Rico (UPR) Medical Sciences Campus. Fully accredited research and teaching institution (teaching in Spanish or English) will fill six tenure-track positions in the next 2 years. PHYSIOLOGY. Two positions in gill physiology. MOLECULAR BIOLOGY: Two positions at assistant professor level, area of research open. NEUROBIOLOGY: Biophysical/cellular neurophysiology, research in tropical invertebrates, or lower vertebrates. ELECTRON MICROSCOPY: Director of Central EM Unit, faculty appointment according to research area. Send curriculum vitae, research statement of interests, and names of three references to: Dr. Susan Opava-Stitzer, Director, RCSI Program, P.O. Box 365067, UPR Medical Sciences Campus, San Juan, PR 00936-5067.

The Department of Molecular Biology and Biochemistry at Rutgers, New Brunswick (Busch Campus), invites applicants for a tenure-track FACULTY POSITION. The department is expanding in several areas, including RNA splicing, DNA replication, transcriptional control, receptors, and signal transduction. These processes may be studied in various systems, including higher eukaryotes, yeasts, and viruses. Strong candidates in other areas will also be considered. This department which was recently established is an important part of the expanding program of Biology at the Busch Campus where the Center for Advanced Biotechnology and Medicine (CABM), the Waksman Institute of Microbiology, and the School of Environmental and Biological Sciences are also located. The position offered is highly competitive with regard to start-up funds, laboratory space, and salary. Candidates should have experience and demonstrate ability to develop an independent, imaginative research program. Please send curriculum vitae, a list of publications, summary of research activities, a research plan, and three letters of recommendation to: Dr. Robert M. Krug, Chairman, Department of Molecular Biology and Biochemistry, Busch Campus, University, CARM, 679 Hoes Lane, Piscataway, NJ 08855-1179. Rutgers University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION RETROViroLOGY

Applicants are invited for a tenure-track faculty position in the Department of Microbiology at the University of Missouri-Kansas City. The Department of Microbiology has a strong research program in molecular virology, immunology, and microbial pathogenesis, and our candidates will be expected to maintain an independent research program. Salary and benefits are commensurate with qualifications. Applications should include curriculum vitae, statement of research interests and experience relevant to the position, and a list of three references to: Retrovirology Search Committee Department of Microbiology Medical College of Wisconsin 8701 W. Plank Road Milwaukee, WI 53226 An Equal Opportunity Employer.

MOLECULAR BIOLOGIST/BIOCHEMIST

One RESEARCH INSTRUCTOR and one POSTDOCTORAL FELLOW position is available at the University of Missouri-Kansas City. Recombinant DNA techniques in eukaryotic systems (yeast, mammalian and insect cells) will be used to express chimeric and mutated complement C3 protein for structure-function studies. EXPERIENCE in recombinant DNA technology is essential for all positions and desirable but not essential for postdoctoral position. Salary is competitive and commensurate with experience. Applicant should submit curriculum vitae and arrange for at least two reference letters to be sent to: Dr. Alfred F. Eser, University of Florida, Box J-145/JIMHRC, Gainesville, FL 32610, and after October 1991, School of Basic Life Sciences, University of Missouri, Kansas City, MO 64110-2499. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS at the University of California, San Francisco (UCSF), on the molecular biology of cytoadherence and antigenic variation in malaria. Two positions are available immediately to work with Drs. James Leach and Cindy S. Otser on the molecular biology and cell biology of cytoadherence and antigenic variation in Plasmodium falciparum. Projects include the molecular cloning and characterization of a cytoadherence ligand protein and investigation of the cellular and molecular aspects of antigenic variation. Experience in molecular biology and protein chemistry is required. Send curriculum vitae, and names of three references to: Dr. James Leech, Box 0811, University of California, San Francisco, California 94143-0811. UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Starting salary depends on length of previous postdoctoral experience.

SEVERAL POSTDOCTORAL POSITIONS CENTER FOR GENETICS AND MOLECULAR MEDICINE, EMORY UNIVERSITY

Several postdoctoral positions are available to investigate human DNA sequence variation, expression and regulation of mitochondrial and nuclear oxidative phosphorylation and control human population groups. Candidates should have well-developed skills in one or more of the following fields: molecular genetics, biochemistry, cell culture, population genetics and statistical analysis of mitochondrial DNA. A summary of research interest and the names of three references to: Dr. Douglas C. Wallace, Director, Center for Genetics and Molecular Medicine, 5160 Clifton Road, Room 3031, Atlanta, GA 30322. Closing date: 31 December 1991. Emory University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN EXPERIMENTAL THERAPEUTICS PROGRAM to study effects of DNA interactive antitumor agents on gene structure and function. Designing strategies to target specific transcribing and replicating regions of genomic DNA in a primary goal. Candidates should have a Ph.D. with a background in molecular biology. Applicants should send curriculum vitae, a brief statement of research interests and letters of reference to: Dr. Terry Beerman, Roswell Park Cancer Institute, Elm and Carlton Streets, Buffalo, NY 14263. Roswell Park is an Affirmative Action/Equal Opportunity Employer.

Massachusetts Institute of Technology, TWO POSTDOCTORAL POSITIONS immediately for applicants with a background in translation-level gene regulation and RNA-protein interactions, or expression and structural studies of eukaryotic transcription factors. Prior experience in biochemistry/molecular biology is desirable. Send curriculum vitae and names of three references by 12 September 1991 to: Dr. Lee Gerdes, Laboratory of Molecular Biology, Massachusetts Institute of Technology, Cambridge, MA 02139.


POSTDOCTORAL PLANT PHYSIOLOGIST. Immediate opening to investigate the spatial arrangement of metabolic activity within a leaf. Is the distribution of photosynthetic and respiratory processes in situ determined by leaf environment and how plants cope with high photon flux densities? Histochemical, spectroscopic (including chlorophyll fluorescence monitoring of Fv/Fm), and biochemical techniques will be utilized. Experience in phototransformations and plant biochemistry research desired. Please send curriculum vitae, statement of research interests, and names of three references to: Dr. John N. Nishio, Department of Botany, University of Wyoming, P.O. Box 3165, Laramie, WY 82071. Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available January 1992, a 2-year appointment to develop a high resolution RFLP map in chrysanthemum. The successful candidate will work in a laboratory supported with funds awarded from a grant by the USDA. Use of recombinant DNA technology and computerized procedures to develop high resolution RFLP maps in chrysanthemums. An option for permanent employment in the Technical Business Group in Fort Myers, Florida, will be available after the initial appointment. Qualifications include a Ph.D. in plant sciences or related field with specialized training in genetics and molecular biology. Send curriculum vitae, description of research interests, and names of three references to: Dr. Robert Ballard, Department of Biological Sciences, Clemson University, Clemson, SC 29634. Clemson University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN DEVELOPMENTAL NEUROBIOLOGY to study the role of NMDA receptors and visual input on formation of binocular maps in Xenopus larvae (Xenopus laevis 249, 669 (1990)). Methods in use include electrophysiology, immunocytochemistry, electron microscopy, and axonal tracing techniques. Position available January 1992. Send curriculum vitae and references to: Dr. Susan Udin, Department of Physiology, State University of New York, Buffalo, NY 14214. Equal Opportunity Employer.

POSTDOCTORAL POSITION, MOLECULAR VIROLOGY. A position is available to study the regulation of cytomegalovirus gene expression with emphasis on viral immediate early protein structure and function. This position is available immediately. Send curriculum vitae, a brief statement of research interests and letters of reference to: Dr. Jay Fathman, Genetics and Molecular Medicine, 5130 Clifton Road, Room 3031, Atlanta, GA 30322. Closing date: 31 December 1991. Emory University is an Affirmative Action/Equal Opportunity Employer. The successful applicant is expected to maintain an independent research program. Salary and benefits are commensurate with qualifications. Applications should submit curriculum vitae, statement of research interests and experience relevant to the position, and a list of three references to: Dr. Richard M. Stenberg, Department of Microbiology and Immunology, P.O. Box 8080, Eastern Virginia Medical School, Norfolk, VA 23502.

POSTDOCTORAL FELLOW

Position available Fall 1991 to investigate maturation of the mechanisms regulating secretion in fetal adrenal medulla. Includes study of neurotransmitter receptors, signal transduction mechanisms, and regulation of expression of gene and related enzymes. Experience in molecular biology is required. Candidate should be U.S. citizen or permanent resident. Applicants submit letter stating interest, curriculum vitae, and names of three references to: C. Y. Cheung, Department of Reproductive Medicine (0802), University of California, San Diego (UCSD), La Jolla, CA 92037-1002. U.S. Citizen/Equal Opportunity Employer. Salary related to rank and step of appointment is within the established salary schedule of the UCSD School of Medicine.

MEDICAL GENETICS FELLOWSHIPS

The Department of Medical and Molecular Genetics at Oregon Health Sciences University (OHSU) offers a postdoctoral program for those with an M.D. degree contemplating an academic career in clinical genetics. The OHSU Program is certified for training by the American Board of Medical Genetics. Special expertise and research areas of our program include clinical and research cytogenetics, including molecular cytogenetics, molecular genetics, diseases of metabolism and metabolic research specifically in muscle and mitochondrial genetics, dysmorphology, the ectodermal dysplasias, Fanconi’s anemia and other disorders of DNA repair, the Marfan syndrome, and retinoid dysplasias. Patients are seen in a traditional genetics clinic with specialties: metabolic, craniofacial, prenatals and the hemophilia clinic. Candidates should be Board-eligible or Board-certified in clinical genetics. The successful candidate will be individually tailored. For more information send curriculum vitae and outline of career plans to: R. Ellen Magenis, M.D., Director, Postdoctoral Clinical Genetics Training Program, Oregon Health Sciences University, Child Development and Rehabilitation Center, OHSU Box 8201-2908, Portland, Oregon 97201-2908. Telephone: 503-494-5289. OHSU is an Affirmative Action/Equal Opportunity Employer.

CLINICAL CYTOGENETICS

The Division of Intramural Research, NHLBI, is seeking applicants for the position of Attending Veterinarian of the 5 Research Court Gene Therapy Program. The 5 Research Court Program, located in a new off-site facility, is a multi-laboratory program focusing on research on gene expression, transfer, and therapy in primates, rabbits and rodents. The successful applicant will be an integral participant in the research program with primary responsibility for all aspects of Animal Care and Use activities. This includes working with the individual investigators of each participating research laboratory to assure that scheduling of resources corresponds to research program priorities.

This is a Civil Service career-conditional appointment with a salary range of $44,346 to $61,141 per annum, depending upon qualifications. Applicants may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.

Minimum qualification requirements are Doctor of Veterinary Medicine or equivalent from an accredited AVMA School of Veterinary Medicine, board eligibility in laboratory animal medicine, and experience as a manager of a research animal facility. U.S. citizenship is required.

For additional information, contact Dr. Bryan Brewer, Chairman, Search Committee at 301-496-5095. To apply for this position, submit curriculum vitae and the names of three references by October 15, 1991 to:

H. Byran Brewer, M.D., Chief, Molecular Disease Branch, National Heart, Lung and Blood Institute, National Institutes of Health, Building 10, Room 7N117, 9000 Rockville Pike, Bethesda, Maryland 20892.

NHLBI is an Equal Opportunity Employer
Cleveland Clinic Foundation  
Department of Heart and  
Hypertension Research  
Postdoctoral Position

Available immediately to participate in the ongoing studies of receptor structure and function, and signal transduction using molecular and structural biology techniques including gene synthesis, site-directed mutagenesis, protein purification and reconstitution, and molecular modeling. Applicants must hold a doctoral degree with a strong training in molecular biology. Experience in protein biochemistry is also desirable. Send curriculum vitae to: Dr. Robert M. Graham, Department of Heart and Hypertension Research, Cleveland Clinic Foundation, FE3-20, 9500 Euclid Avenue, Cleveland, OH 44195-5071.

Two postdoctoral positions available immediately to study protein phosphatases, their role in calcium release, cell cycle progression and tumor promotion using molecular, biochemical and cellular techniques. One position in molecular biology, one position in biochemistry/cell biology. Send curriculum vitae, statement of interests, names of three references with telephone numbers to: Alton L. Boynton, Ph.D., Washington University, 4217 SW Pacific Highway, Seattle, WA 98106; FAX: 206-726-1234; Telephone: 206-726-1234; FAX: 206-726-1217.

Postdoctoral Scientist:  
SHRM BIOLGIST

Full-time Hawaii Institute of Marine Biology. One year, with renewal dependent on continuation of funding. To work in the areas of shrimp nutrition and disease. Background in crustacean nutrition or lipid biochemistry desired. Send curriculum vitae, statement of interests, names of reference with telephone numbers to: Chris Brown, Aquatic Coordinator, Hawaii Institute of Marine Biology, Box 1346, Coconut Island, Kaehele, HI 96744. Inquiries: 206-325-9745; FAX: 206-325-9743.

Faculty Research Fellow  
Science and Public Policy Program  
University of Oklahoma

The Science and Public Policy Program (S&PP) invites applications for one tenure-track research fellow position at the assistant or associate professor level, with a joint appointment in an appropriate department of engineering, natural, social, or geosciences. S&PP is an interdisciplinary applied policy research program focused on energy, environmental, and science and technology policy. Responsibilities include: preparation of proposals for external funding and participation in the planning and implementation of research projects, one research per year, and service. Candidates must have a Ph.D. at time of appointment; a record of or potential for securing funds; a commitment to train excellent, interdisciplinary research. Preference will be given to applicants with applied policy research experience in energy, environmental, or science and technology policy. The position is available immediately; salary commensurate with qualifications. A letter of application, curricular vitae, and at least three letters of reference should be sent to: Dr. Tom James, Director, Science and Public Policy Program, University of Oklahoma, 100 East Boyd, R208, Norman, OK 73019. Those applying for a position as a postdoctoral fellow must include a graduate transcript. Review of applications will begin 25 October 1991 and continue until the position is filled. Women and minorities are encouraged to apply. Oklahoma University is an Equal Opportunity/Affirmative Action Employer and is responsive to the needs of dual-career couples.

Assistant Research Immunologist

Program in Transplant Immunology is offering a position for a molecular/cellular immunologist with expertise in human immunogenetics and transplantation immunology. Candidate must have a Ph.D. degree with at least 2 years of postdoctoral employment. Responsibilities will include: studies on human tolerance induction, regulation of HLA expression, and immune monitoring of transplant recipients. Salary range: $41,000 to $52,400 depending upon experience. Send curriculum vitae and reference to: Dr. Marvin R. Garovoy, M.D., University of California, San Francisco (UCSF) 513 Mission Street, Third and Parnassus Avenue, San Francisco, CA 94143-0508. UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Research Technician Position

Available immediately to conduct research on RFLP analysis of cereal crops. Applicants should have experience with standard molecular biology techniques. Familiarity with DNA sequencing and PCR methodology is desirable. Candidates with a B.S. or M.S. in molecular biology and/or genetics are encouraged to apply. Please send curriculum vitae, letter of qualification and names of three references to: Department of Civil Environmental Sciences Department, Virginia Polytechnic Institute and State University (VPI&SU), Blacksburg, VA 24061. Telephone: 703-231-6301. VPI&SU is an Equal Opportunity/Affirmative Action Employer.

Research Associate

Program in Transplant Immunology is offering a position for a molecular/cellular immunologist with expertise in human immunogenetics and transplantation immunology. Candidate must have a Ph.D. degree with at least 2 years of postdoctoral employment. Responsibilities will include: studies on human tolerance induction, regulation of HLA expression, and immune monitoring of transplant recipients. Salary range: $41,000 to $52,400 depending upon experience. Send curriculum vitae and reference to: Dr. Marvin R. Garovoy, M.D., University of California, San Francisco (UCSF) 513 Mission Street, Third and Parnassus Avenue, San Francisco, CA 94143-0508. UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

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Researsh Assistant

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Research Technologist

Available immediately to conduct research on RFLP analysis of cereal crops. Applicants should have experience with standard molecular biology techniques. Familiarity with DNA sequencing and PCR methodology is desirable. Candidates with a B.S. or M.S. in molecular biology and/or genetics are encouraged to apply. Please send curriculum vitae, letter of qualification and names of three references to: Department of Civil Environmental Sciences Department, Virginia Polytechnic Institute and State University (VPI&SU), Blacksburg, VA 24061. Telephone: 703-231-6301. VPI&SU is an Equal Opportunity/Affirmative Action Employer.

Research Assistant

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Research Assistant

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Research Assistant

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We currently have the following immediate openings in our research group:

Postdoctoral Research Scientist — You should be a recent Ph.D. with an interdisciplinary background involving both biology and either physical science or engineering. Excellent instrumental skills are required for your extensive involvement in creating new forms of the microphysiometer for intriguing biological applications.

Cell/Tissue Culture Specialist — You will direct the research cell/tissue culture facility at MDC. We grow many types of mammalian cells using both standard and nonstandard techniques. Your primary function will be in service, with additional direct participation in research. A BS in biology is required (MS desirable). Applicants should also have several years’ practical experience in the field, along with a thorough knowledge of basic cell biology.

Molecular Devices offers a competitive compensation and benefits package. Please send your resume including curriculum vitae to Molecular Devices Corporation, Attn: Dr. John C. Owicky, 4700 Bohannon Drive, Menlo Park, CA 94025. Fax (415) 322-2089. Principals only, please. EOE.
Positions Open

**ASSISTANT FESTICIDE CHEMIST**  
University of Hawaii, full time, tenure track, to begin approximately January 1992. Duties: develop a research program to determine the fate of xenobiotic chemicals in the Hawaiian environment, or the activities of the Pesticide Residue Research Laboratory; teach an upper division/graduate course on pesticide analysis/environmental chemistry. Minimum qualifications: Ph.D. in analytical chemistry, environmental toxicology, or equivalent. Two years of postdoctoral research experience in a relevant field. Desirable: experience in pesticide residue analysis, analytical methods development, mass spectrometry, laboratory supervision under GLP, regulation of pesticides in the United States. Minimum salary: $37,800. To apply: send curriculum vitae, telephone numbers, letters of inquiry to: Search Committee, Department of Environmental Biochemistry, 1800 East West Road, University of Hawaii, Honolulu, HI 96822. Closing date: 1 October 1991. Equal Opportunity Employer.

**Ph.D. SCIENTIST MEMBRANE RESEARCH**  
The Liposome Company, a growing biopharmaceutical firm specializing in lipid-based drug delivery systems, is offering a challenging opportunity for a scientist with a background in liposomology, membrane biophysics or lipid physical chemistry, to conduct a broad-based research program as part of its innovative liposomology group. Ph.D. and 0-1 year of postdoctoral experience required. 

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Interested candidates please forward your résumé to:  
Ms. Debra Pascale  
Manager of Human Resources  
The Liposome Company  
1 Research Way  
Princeton, NJ 08540

**RESEARCH SCIENTIST MOLECULAR BIOLOGY/TRANSPLANTATION**  
The Transplantation Biology Research Laboratory in the Department of Surgery, Cedars-Sinai Medical Center, is seeking applicants for a full-time position as the research scientist level. The applicants should have a Ph.D., M.D., D.V.M. or equivalent degree with post-doctoral experience in molecular biology/immunology. The successful candidate will participate in the development of a transgenic program to study cell surface antigen modulation as it relates to transplant rejection. Incubation experience in molecular biology/immunology is preferred. It is expected that the successful candidate will develop his/her independent research program. The Department of Surgery has a long-term commitment to the development of basic research programs to support a large clinical multiorgan transplantation program and substantial research support, laboratory space and salary are available to the appropriate candidate.

Applicants should submit their curriculum vitae, research plans and three references to:  
Phil Tao, M.D.  
Transplantation Biology Research Laboratory  
Cedars-Sinai Medical Center  
150 North San Vicente Blvd., Suite 250  
Beverly Hills, CA 90021  
Telephone: 213-855-2702

**RESEARCH SCIENTIST INDUSTRIAL RESEARCH ASSOCIATE**  
To be responsible for designing of thin film deposition systems, development of plasma processing and thin film deposition process by computer-aided design and devices. Ph.D. (U.S. or foreign degree) in applied physics. One year of experience in the field. Excellent in oral communication skills and ability to work effectively with a team of professionals. Responsibilities include: thin film technology and applications, material sciences, operation of thin films deposition and characterization-related instrument. Salary: $30,000 per year. Full time. Send curriculum vitae to: Dr. Karin Fournier, Vice-President, P&D, Inc., 3401 Market Street, Suite 227, Philadelphia, PA 19104. Must be U.S. permanent resident or citizen.

Positions Open

**ECOGEN, INC.**  
Ecogen, Inc., an agricultural biotechnology company located in the Philadelphia area and specializing in microbial pesticide development and biological control, has immediate openings for the following positions:  
- Ph.D. RESEARCH SCIENTIST. Analytical protein biochemist with experience in quantitative assay development including immunoassays.
- Ph.D./POSTDOCTORAL ASSOCIATES/RESEARCH ASSOCIATES. Cell physiology and biochemistry. (Postdoctoral research involves structure/function analysis of proteins involved in cell signaling and differentiation mechanisms). 
- M.S./B.S. RESEARCH ASSOCIATES/RESEARCH ASSISTANTS. Microbial genetics. Pilot scale fermentation (microbiology or biotechnology background).

Interested candidates should submit a current résumé including the names, addresses, and telephone numbers of three references to:  
Ecogen Inc.  
Human Resource Department—SC1891  
2005 Cabot Boulevard, West Longbranch, PA 19041  
Ecogen is an Equal Opportunity Employer.

**ASSISTANT/ASSOCIATE RESEARCH MOLECULAR BIOLOGIST**  
Program in Transplant Immunology is offering a position for a molecular biologist/molecular immunologist. Position involves studies of HLA gene regulation. DNA binding proteins and HLA allele definition utilizing molecular approaches to gain a better understanding of antigen presentation and tolerance induction. Candidates should have Ph.D. degree with at least 2 years of postdoctoral training. Salary range: $41,000 to $60,000 depending on experience and qualifications. Send curriculum vitae and references to: Marvin R. Garovoy, M.D., University of California, San Francisco, 2025 Divisadero, 350 East, Third and Parnassus Avenue, San Francisco, CA 94143–0508. 

UCSF is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

**SEPARATION CHEMIST.** Research developing analytical methods and instrumentation to separate compounds in complex mixtures, explore new technologies. Apply all aspects of chromatography, fractionation and separation. Understanding of polymer/polymer phase behavior and effect of block and graft copolymers. Fractionation and separation techniques based on fractional solution and precipitation. Characterization of complex polymer systems by variable temperature turbidimetric measurement in viscometers, including GPC, HPLC, SFC, SFE, etc. and state-of-the-art knowledge of separation principles. Apply background in chromatographic instrumentation and MS flame ionization detection, electron capture detection, Fourier transformation infrared spectroscopy, computer applications, etc. Requirements: Ph.D. analytical chemistry and 2 years of experience with strong background in all aspects of chemistry and high resolution chromatographic and multidimensional techniques, e.g., SFC, SFE, CG, NMS. Background in deconvoluting and coding high quality chromatographic columns. Research experience in method development and realworld application for characterization and analysis using computer-interfaced high resolution chromatography. Proficiency in computerized chromatographic data handling, analysis and instrumentation techniques background. Forty hours per week; $46,000 per year; returns to: Philadelphia Job Bank, 444 North 3rd Street, Philadelphia, PA 19123, JO#438533.

**NEUROSCIENTIST**  
University of Miami seeks experimental Ph.D. psychology or psychopharmacology scientist to join its research program in the investigation of neural mechanisms of the aging brain. Experience working with animals required. Experience with histology and histochemistry preferred. Send curriculum vitae to: Herbert Lube, M.D., Mailman Center for Child Development, P.O. Box 016820 (D-820), Miami, FL 33101. Telephone: 305-847-5741. FAX: 305-847-3919.

Meetings

**MASSACHUSETTS GENERAL HOSPITAL HARVARD MEDICAL SCHOOL CUTANEOUS BIOLOGY RESEARCH CENTER SYMPOSIUM**  
EPITHELIUM, MESENCHYME AND THEIR INTERACTIONS  
4 OCTOBER 1993  
BOSTON, MASSACHUSETTS


For more information and registration, please contact: Maureen Ellis, Cutaneous Biology Research Center, MGH East, Building 149 Thirteenth Street, Charlestown, MA 02129. Telephone: 617-736-5770. FAX: 617-736-2120.

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