**POSITIONS OPEN**

**ASSISTANT/ASSOCIATE PROFESSOR VIROLOGY**

Morehouse School of Medicine

Scientists with research expertise in an area of contemporary virology with relevance to medicine are invited to apply for a regular faculty position in the Department of Microbiology and Immunology. Candidates for appointment as ASSISTANT or ASSOCIATE PROFESSOR must have conducted doctoral training and demonstrated ability to direct an independent research program and obtain extramural funding. CANDIDATE PROFESSOR must have a record of current research productivity and funding. Morehouse School of Medicine is a young institution, dedicated to the training of underrepresented minorities in medical and health sciences, and to excellence in biomedical research. State-of-the-art research facilities plus individual start-up support will be encouraged to the successful candidate. This position offers the opportunity for full and rewarding scholarly growth. Underrepresented minorities and women are particularly encouraged to apply. Email or fax curriculum vitae, statement of research background and plans, and names of three references to: Gordon B. Bailey, Ph.D., Chair, Department of Microbiology and Immunology, Morehouse School of Medicine, Atlanta, GA 30310. Email: bailey@link.msm.edu; Fax: (404) 756-8697.

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**IMMUNOLOGIST**

The Department of Microbiology, Immunology, and Parasitology at the College of Veterinary Medicine, Cornell University, seeks candidates for a tenure-track position as ASSOCIATE PROFESSOR OF IMMUNOLOGY. The successful applicant will be expected to develop an independent, competitively funded research program in molecular or cellular immunology and to teach graduate and professional students. We are particularly interested in candidates who will complement existing strengths in the Department which include immunoparasitology and mucosal immunology. Applicants must have a Ph.D. and training at the postdoctoral level; those who also have a D.V.M. degree are especially encouraged to apply. Applications, including a curriculum vitae and names and addresses of three references, should be sent to: Dr. Alexander J. Winter, Chair, the Immunology Search Committee, Department of Microbiology, Immunology, and Parasitology, College of Veterinary Medicine, 615 Veterinary Research Tower, Cornell University, Ithaca, NY 14853-6401; by October 1, 1994. Telephone inquiries will be welcomed: (607) 253-3273. Cornell University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are invited to apply.

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**RESEARCH POSITION**

A research position at the senior POSTDOCTORAL or ASSISTANT PROFESSOR level is available in an established program examining estrogen action in human breast cancer. Candidates will be involved in projects including characterization of transcriptional activation mechanisms or growth factor expression and function. Appropriate experience through the postdoctoral level is required. Appointment at the Assistant Professor level will be considered for superior candidates and requires high potential for independent research. Send curriculum vitae and names of three references to: Richard J. Santen, M.D., Department of Medicine, Wayne State University, Harper Hospital, 1 Weber S, 3990 John R., Detroit, MI 48201. Wayne State University is an Affirmative Action/Equal Opportunity Employer.

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**ENDOWED CHAIR IN ICHTHYOLOGY**

The Rosenstiel School of Marine and Atmospheric Science (RSMAS), University of Miami, seeks an ichthyologist to fill the Ingmire Chair. Established in 1957, it is a fully endowed position in the broad field of ichthyology. Candidates must have an established reputation in research and an excitation so as to meet the standards for appointment at full professorial rank. Candidates from all areas of specialization will be considered. Responsibilities include establishing a strong externally funded research program, directing graduate students, and teaching graduate courses. Southern Florida is a center of recreational fishing and it is desirable that the interaction of the Chair with the local community be strong. Applicants should forward curriculum vitae, a statement of research and teaching interests, and the names of references to: M.E. Clarke, Management Committee Chair, Division of Marine Biology and Fisheries, RSMAS, University of Miami, 4600 Rickenbacker Causeway, Miami, FL 33149-1098, by 1 November 1994. The University of Miami is an Equal Opportunity/Affirmative Action Employer.

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**DEPARTMENT HEAD AND PROFESSOR OF ORAL BIOLOGY**

The Harvard School of Dental Medicine, in conjunction with the Forsyth Dental Center, is seeking a professor to serve as head of the Harvard School of Dental Medicine Department of Oral Biology. This individual will also be appointed as a tenured member of the Senior Staff of the Forsyth Dental Center. The individual to be appointed should be a scientific leader with an excellent research record. Scientific interests should be broadly based, including such areas as infectious aspects of oral disease or bioimmunization. Responsibilities of the position include the administration and leadership of the Department of Oral Biology. Applicants should have demonstrated expertise in research, teaching, and administration.

Qualified individuals should send curriculum vitae, bibliography, and statement of research interests by September 15, 1994, to: Barnard M. Fields, M.D., Chairperson of the Committee to Search for a Professor and Department Head of Oral Biology, c/o Harvard School of Dental Medicine, 188 Longwood Avenue, Boston, MA 02115. The Harvard School of Dental Medicine and the Forsyth Dental Center are Affirmative Action/Equal Opportunity Employers. Women and minority candidates are invited to apply.

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**CLINICAL CHEMISTRY FACULTY**

A full-time, tenure-track position is available immediately for DISCIPLINE DIRECTOR OF CLINICAL CHEMISTRY in the Department of Medical and Research Technology, School of Medicine, University of Maryland, Baltimore (UMAB). Ph.D. required; board certification in medical technology or clinical chemistry required. The successful candidate is expected to develop an independent research program. Research with a focus in protein biochemistry and experience in analysis of biotechnology products is preferred. Responsibilities include teaching at the undergraduate and graduate level, research, and faculty practice in Clinical Chemistry discipline. Review of completed applications will begin August 1, 1994, and will continue until the position is filled. Curriculum vitae, research interests, statement of teaching philosophy, and at least three letters of reference should be forwarded to: Dr. Linda C. Gregory, Chair, Search Committee, Department of Medical and Research Technology, Allied Health Building, Room 440A, 100 Penn Street, Baltimore, MD 21201. Telephone: (410) 706-7665. UMAB is an Affirmative Action/Equal Opportunity Employer.
DIRECTOR OF RESEARCH COMPUTING SERVICES—The Fox Chase Cancer Center is seeking a Director for Research Computing Services. This group provides computational support to 75 active research programs in biomedical and basic science including behavioral and biostatistical research as well as the library. Director will lead a team responsible for the development of the institutional computing infrastructure. The Fox Chase Cancer Center has state-of-the-art networks and is a leader in research computing resources including workstations, microcomputers, scientific instruments and Internet connections. The successful candidate should have 1) experience in science or scientific computing, 2) a strong background in computing, computer networks, and evolving computing methods, and 3) experience in managing computing projects, preferably in an academic research environment. Excellent benefits and competitive salary offered. Interested candidates please send resume to: Dr. G. D. Markham, RCS Director Search Committee, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. We are an Equal Opportunity Employer.

DIRECTOR
MOLECULAR GENETICS DIAGNOSTIC LABORATORY
Children's Hospital Los Angeles has an immediate opening for a Ph.D. Research Associate (non-faculty) to direct a Medical Genetics/Pathology laboratory. Director will supervise a Laboratory with qualified technicians performing tests for musculoskeletal, fragile X, myotonic dystrophy, and other genetic disorders. The successful candidate will have a Ph.D. in Medical Genetics, with experience in molecular diagnostics. ABMG eligible or certified preferred but not required. For further information contact: Lawrence Sweetman, Ph.D., Biochemical Genetics Lab # 11, Children's Hospital Los Angeles, 4650 Sunset Boulevard, Los Angeles, CA 90027. Telephone: (213) 699-2271; FAX: (213) 660-7072.

CHEMIST—TECHNICAL SERVICES MANAGER
KIND AND KNOX GELATINE, INC. (K & K) is seeking a qualified individual to fill the position of TECHNICAL SERVICES MANAGER for Pharmaceutical and Edible Products in the Research and Development Department of their Sioux City, Iowa, manufacturing facility. The ideal candidate will possess a Ph.D. in Chemistry, a B.S./M.S. in Science or Engineering, plus five to ten years of relevant industrial experience. Experience in product applications of gelatine is strongly preferred. Candidates must have the capability to communicate effectively with staff and customers to provide technical support and analyze and solve problems related to K & K products. Responsibilities include project design, development of new analytical testing methods, and monitoring regulatory issues affecting products. We offer a competitive compensation package and an outstanding opportunity to grow in an exciting technical/business environment. For confidential consideration, please send a resume with salary requirements to: Kind & Knox Gelatine, Inc., Attn: Human Resource Manager, P.O. Box 927, Sioux City, IA 51102. K & K is an Equal Opportunity Employer. Male/Female.

FACULTY/RESEARCH POSITION
RADIATION BIOLOGY
Mayo Foundation for Medical Education and Research invites applications for a full-time career scientist position at the level of ASSISTANT, ASSOCIATE or PROFESSOR with joint appointments in the Division of Radiation Oncology and the Department of Biochemistry and Biophysics, University of Miami School of Medicine. The Department has strength in cellular and molecular approaches to the study of radiation biology and neurocognition, and we seek an investigator with expertise in DNA damage response who has experience in the radiation biology research program. The successful candidate will have a Ph.D. equivalent, and a minimum of two years of postdoctoral experience. A strong background in biochemical virology is preferred. Experience in collaboration with clinicians is desirable. We offer a competitive compensation package and an outstanding opportunity to grow in an exciting technical/business environment. For confidential consideration, please send a resume with salary requirements to: Mayo Foundation for Medical Education and Research, Attn: Dr. Paul J. Leibson, Ph.D., 301 Cogenhagen Building, Mayo Foundation for Medical Education and Research, 200 First Street SW, Rochester, MN 55905. Mayo Foundation for Medical Education and Research is an Affirmative Action and Equal Opportunity Education and Employer.

FACULTY POSITION IN PHYSIOLOGY AND BIOPHYSICS
Applications are invited for a tenure-track position at the ASSISTANT or ASSOCIATE PROFESSOR level in the Department of Biophysics, University of Miami School of Medicine. The Department has strengths in cellular and molecular biophysics, and we seek an investigator with expertise in the areas of radiation biology and brain function who has demonstrated interest in the training of graduate students, and many current researchers in these fields. The candidate should have a Ph.D. or equivalent, and a minimum of two years of postdoctoral experience. Excellent candidates will be expected to conduct an active, independent, and multidisciplinary research program with the following requirements: (1) evidence of excellence in teaching and/or research; (2) evidence of strong teaching and/or research potential; (3) evidence of strong teaching and/or research capability; and (4) evidence of strong teaching and/or research productivity. The successful candidate will be a member of the Department of Biophysics, University of Miami School of Medicine. Salary is commensurate with experience and rank. Applications should include a curriculum vitae, statement of research interests and goals, and three references. The position will be available September 1, 1995. The University of Miami is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately in the laboratory of Dr. A. Jaffe, Department of Neurological Surgery, University of Miami School of Medicine, 171 Ashley Avenue, Charleston, SC 29425.
POST-DOCTORATES

We can help you make breakthroughs. If you are innovative and versatile with accomplished communication skills and a proven record of scientific excellence, we can give you everything you need to capitalise on those qualities.

Consider our resources: a new, purpose-built research centre in Stevenage, Hertfordshire which will provide the world’s finest state-of-the-art equipment for scientists who are, without doubt, the best in their field. Now our success in molecular biology has us poised on the brink of a host of new drugs.

We want you to build on these achievements - and see even further ahead.

“IF I HAVE SEEN FURTHER IT IS BY STANDING ON THE SHOULDERS OF GIANTS”  
SIR ISAAC NEWTON

RECEPTOR BIOLOGY
RESEARCH BIOLOGIST REF: A2
An expert in cell culture technology, you’ll be qualified to at least BSc level with 4-7 years’ experience in gene expression, tissue culture and cell line creation.

SENIOR RESEARCH BIOLOGIST REF: A3
To create a research programme for a team of 4-6 people, you’ll need to be an expert in G-protein linked receptor signal transduction with 3-4 years’ post-doc experience.

ENZYMOLGY
SENIOR RESEARCH BIOLOGIST REF: A4
An experienced post-doc, you’ll have an impressive background in enzymological/protein biochemistry.

GENE EXPRESSION
RESEARCH LEADER REF: A5
An expert in mammalian transcription factors and intracellular receptors, you’ll also have extensive molecular biology expertise. Management experience would be an advantage.

VASCULAR
RESEARCH LEADER REF: A6
You must have significant post-doc experience in both the cell and molecular biology of the endothelium.

SENIOR RESEARCH BIOLOGIST REF: A7
This support role calls for a talented post-doc molecular biologist preferably with cell biology experience.

COGNITION AND SENSORY BIOLOGY
SENIOR RESEARCH BIOLOGIST REF: A8
Ideally with 1-2 years’ post-doc experience, you’ll facilitate studies of the molecular basis for cognition.

RESEARCH BIOLOGIST REF: A9
A post-doc molecular biologist, you’ll have experience in any of the following: in situ, autoradiography, immunocytochemistry/neurophysiology, neuronal tract/clinical genetics.

CARDIOPROTECTION
SENIOR RESEARCH BIOLOGIST REF: A10
Some 2-4 years’ post-doc experience will have given you the molecular expertise to unravel the mechanism of observed protection. You should also ideally have expertise in signal transduction pathways and molecular mechanism.

SENIOR RESEARCH BIOLOGIST REF: A11
To identify the key gene products in the protected heart, you’ll need 2-4 years’ post-doc experience using state-of-the-art molecular biology skills.

You can expect rewards which will fully reflect your abilities including a generous relocation package, where appropriate. Plus, more importantly, a far greater chance of achieving the results you’ve been striving for.

Initially based at Ware/Greenford, you’ll relocate to our new Stevenage site early in 1995. As a major healthcare company, we are committed to a no smoking environment. Please write, enclosing your CV and quoting the appropriate reference number, to Kate Lawrey, Senior Human Resources Adviser, Glaxo Research and Development, Park Road, Ware, Herts SG12 0DP.
POSDOCORAL POSITION

POSITIONS OPEN

POSTDOCTORAL POSITION

CULLAR IMMUNOLOGY/BIOPTICS

Position available for fluorescence and phosphorescence studies of molecular interactions related to T-cell and B-cell responses. Research will be conducted using a combination of spectroscopic techniques and biophysical methods. The position is available immediately.

Send curriculum vitae and name of references to: Dr. George Barillas, Department of Chemistry, Colorado State University, Ft. Collins, CO 80523. Colorado State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS in bacterial pathogenesis. Two positions available to study the molecular pathogenesis of Chlamydia trachomatis for NIH-funded projects. Molecular genetic focus to investigate host-microbe interactions including attachment and invasion of mammalian cells and role of host immune response in infection. Recent Ph.D. or M.D. graduates with productive research background in microbiology, cell biology and/or immunology are encouraged to apply. Send curriculum vitae and names of references to: Dr. Richard S. Stephens, Box 0412, University of California—San Francisco, San Francisco, CA 94143.

POSTDOCTORAL POSITION

Availability in the laboratory of Dr. John Kruiswijk for research at the University of Colorado, Boulder, Pennsylvania. The successful applicant will have a Ph.D. in biochemistry, cell biology, or pharmacology with experience in molecular biology. The position will involve the expression and characterization of novel forms of adenyl cyclase (see J. Biol. Chem., 267: 24842-24862 and J. Biol. Chem., 269: 12190-12195). Emphasis will be placed on structural and electrophysiological analysis of the adenyl cyclases responsible for mediating unique physiological effects. The Weis Center is a well-equipped, modern research facility located in a semi-rural setting.

Competitive salary and fringe benefits are available. Please send curriculum vitae with the names and telephone numbers of three references to: Geisinger Geisinger Health System, 1300 Morris Park Avenue, Danville, PA 17822-1529. Equal Opportunity Employer. Male/Female/Disabled/Veteran.

POSTDOCTORAL RESEARCH ASSOCIATE Two-year position is available to study the expression of a proposed oncogene suppressor in breast cancer cells and tissues at the Uniformed Services University of the Health Sciences in Bethesda, Maryland in the laboratory of Dr. Sara Contente. Candidates experienced with in situ hybridization and RT-PCR protocols are desirable. Please send cover letter, curriculum vitae and the names of three references to the employer: Human Resources Department, 4301 34th St. NW, Suite 610, Washington, DC 20305. Seton Hall University, Department of Chemistry, Seton Hall University, South Orange, NJ 07079. Equal Opportunity Employer.

POSTDOCTORAL MOLECULAR BIOLIST for work in collaboration with electrophysiologists on membrane receptors for taste. Must have experience with cloning strategies and screening libraries. Apply with names of three references by August 15, 1994, to: Dr. N. Chaudhari or Dr. S. Roper, Department of Physiology, Colorado State University, Fort Collins, CO 80523. FAX: (303) 491-7699. CSU is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

A postdoctoral position is available immediately to investigate mechanisms underlying trophic regulation of neuronal differentiation. Experimental approaches include cell culture and neuronal cell lines, and molecular, biochemical and neuroanatomical techniques to examine trophic factor expression, signal transduction, regulation of neuronal cytoskeletal elements, and growth cone function. A Ph.D. and/or M.D. and a background in molecular biology is required. Expertise in molecular and cellular biology is desirable. Application sent immediately after inquiring. Send curriculum vitae and names of three references to: Dr. Bruce H. Wainer, Professor and Chair, Department of Pathology, Albert Einstein College of Medicine of Yeshiva University, Jack and Pearl Resnick Campus, 1800 Morris Park Avenue, Bronx, NY 10461. An Equal Opportunity Employer.

POSITIONS OPEN

A POSTDOCTORAL POSITION is available in the structure-based inhibitor design. High-resolution X-ray structures are available for the active and inactive conformations of the human chemokine receptor CCR5, and of a truncated receptor. The primary targets of the candidate are directed against critical regions of the receptor. Send curriculum vitae and the names of three references to: Dr. David A. Vredenbregt, Department of Pharmacology, University of Texas Southwestern Medical Center, 3301 Gaston Avenue, Dallas, TX 75235. Equal Opportunity Employer.

POSTDOCTORAL POSITION

TRANSFORMATION GENERATED SIGNALS STRUCTURE/FUNCTION

Position available immediately to study E. coli or human transformation complexes using genetic or biochemical approaches. Well-suited for recent or established Ph.D. interest in understanding the functional organization of transcription and its regulation. Possible projects include structural analysis of purified transcription complexes, genetic dissection of RNA polymerase, and mechanism of nucleosome remodeling. Send curriculum vitae and names of three references to: Dr. Robert Landick, Department of Biology, 11-173 Washington University, One Brookings Drive, St. Louis, MO 63130. Equal Opportunity Employer.

POSTDOCTORAL AND RESEARCH ASSOCIATE POSITIONS in Microbiology and Immunology immediately available. Projects relate to molecular biology and immunology. Send curriculum vitae and reference list to: Dr. Robert Landick, Department of Biology, 11-173 Washington University, One Brookings Drive, St. Louis, MO 63130. Equal Opportunity Employer.

POSTDOCTORAL POSITION, available immediately, to investigate molecular mechanisms for the processing and repair of DNA double-strand breaks induced by bleomycin and other antitumor drugs, and the role of repair in the inactivation of drug resistant mutations and gene rearrangements by these agents in mammalian cells. Send curriculum vitae by September 1, 1994 to: Dr. Lawrence F. Powell, Division of Molecular Pharmacology and Toxicology, Medical College of Virginia, P.O. Box 90260, Richmond, VA 23298-0230.

STANFORD UNIVERSITY SCHOOL OF MEDICINE POSTDOCTORAL POSITION

A postdoctoral position is available to work on mechanisms involved in the transcriptional control of estrogen receptors in breast cancer. A Ph.D. and/or M.D. and a background in molecular biology is required. Expertise in molecular and cellular biology is desirable. Applicants should have a Ph.D. and/or M.D. and be interested in hereditary and/or sporadic breast cancer. Application sent immediately after inquiring. Send curriculum vitae and names of three references to: Dr. Bruce H. Wainer, Professor and Chair, Department of Pathology, Albert Einstein College of Medicine of Yeshiva University, Jack and Pearl Resnick Campus, 1800 Morris Park Avenue, Bronx, NY 10461. An Equal Opportunity Employer.

THE UNIVERSITY OF CHICAGO

A POSTDOCTORAL POSITION is available in the Department of Radiation and Cellular Oncology at the University of Chicago. The project is investigating novel mechanisms of radiation resistance and treatment of radiation-inducible promoters linked to cytokinosins into tumor cells in order to enhance the therapeutic effects of radiation. Transfection and viruses (adeno and herpes) will be employed using in vivo and in vitro models with human clinical use being the ultimate goal. A Ph.D. or equivalent degree with strong background in virology and/or molecular biology is required. Send curriculum vitae, a brief summary of research interests and experience, and names, addresses, and telephone numbers of three references to: Dr. Ronald Stephens, Department of Radiation and Cellular Oncology, 5841 South Maryland Avenue, MC0085, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

TWO POSTDOCTORAL POSITIONS beginning September 1, 1994. Research in a Laboratory studying bacterial multidrug resistance pumps, stress response to uncoupling, and the isolation/mutation of mechanisms of natural animeroidal peptides. Research is being sponsored by grants from both Government and Corporate sources. One position requires experience in recombinant DNA and AAAS experience in the field of protein chemistry. Send curriculum vitae and three letters of recommendation to: Professor William Lewis, Department of Medicine, School of Medicine, 100 Penn Street, Room 440, Baltimore, MD 21210-1082. UMAB is an Affirmative Action/ADA/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Cardiac Physiology

A postdoctoral position is available immediately (November 1, 1994) for research on in vivo electrophysiology and excitation-contraction coupling of cardiac muscle. The research will involve the use of patch clamp techniques (whole cell and single channel) and fluorescent ion indicators to study excitation-contraction coupling and flash photolysis of caged compounds in single voltage-clamped cardiac cells. Applicants should have a Ph.D. or M.D. and experience in electrophysiology.

Interested individuals should send curriculum vitae and names of three references to: Dr. W. Gil Wier or Dr. J. William Balke, Department of Physiology, University of Maryland at Baltimore, 655 West Redwood Street, Room 590, Howard Hall, Baltimore, MD 21201.

POSTDOCTORAL, M.D. OR PH.D.

Harvard Medical School, Hematology-Oncoology Division

A candidate is sought to explore the molecular mechanisms through which blood coagulation proteins bind to coagulation factor V, and the consequences of binding events. A working knowledge of biochemistry, physical biochemistry, or cell biology is required. Opportunity for development of independent laboratory program. Send curriculum vitae and three letters of recommendation to: Gary Gilbert, M.D., West Roxbury VA Medical Center, 1400 VFW Parkway, West Roxbury, MA 02132.

POSTDOCTORAL OR RESEARCH ASSOCIATE POSITION available immediately to study the role of neuronal growth factors in Alzheimer’s disease and neuronal plasticity. Ph.D. and experience with at least one of the following required: neuronal tissue culture, ELISA, stereotoxic surgery, human neuroanatomy, immunohistochemistry or protein purification. Send curriculum vitae and description of research interests to: Dr. Keith A. Crutcher, Department of Neurosurgery, University of Cincinnati Medical Center, 2371 Berea Rd., Cincinnati, OH 45267-0618.

POSTDOCTORAL POSITION available immediately in the Department of Pathology, University of Maryland School of Medicine, to conduct independent research evaluating the in vitro metabolism, transport, and toxicity of chemicals in kidney proximal tubules. Candidates should have a Ph.D. or equivalent degree in organic chemistry, biochemistry, biology, pharmacology, physiology or related field. Send curriculum vitae to: Dr. Charles E. Rugg, 5202 Westland Boulevard, Baltimore, MD 21227.

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"Forest Health and Fire Danger in Inland Western Forests"
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... A conference to examine forest conditions in the Inland West and to explore the implications of those conditions for future forest health – especially the risks of catastrophic wildfires. Options for improving forest health, enhancing environmental quality, affecting local economic conditions, and reducing wildfire risk will be discussed. The public is invited.

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Solutions to forest health problems

Panelists Include:
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U.S. Forest Service administrators
Forest products industry representatives
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☐ Registration $75 Visa/MasterCard # __________________________ Expiration date __________________________
☐ $15 single day admission (meals not included)  ☐ September 8  ☐ September 9

☐ Send complete program information __________________________ Signature __________________________

Mail or fax form to: Conference Coordinator, Riverside Station, PO Box 1904, Spokane, WA 99210
Fax 509-623-1632 Tel. 509-626-0926 Make checks payable to Forest Health Conference.
POSITIONS OPEN

BIOCHEMISTRY AND MOLECULAR BIOLOGY OF CYTOCHROME P450
University of California, Irvine

Two POSTDOCTORAL POSITIONS are available in the UCI Department of Pathology for studies on cytochrome P450 system of lungs, liver and CNS supported by NIH grants. This program seeks to characterize the molecular and genetic basis of P450 inducibility, free radical generation from p450 and their contribution to the development of pulmonary dysplasia and the young. Another project involves elucidation of neuronal changes secondary to neonatal hypoxic insults and induced changes of steroid metabolism in adults.

Send curriculum vitae and names of three references to: Yutaka Kikkawa, M.D., Professor & Chair, Department of Pathology, College of Medicine, University of Irvine, Irvine, CA 92717. The University of California, Irvine is rooted in education and enriched by diversity.

POSITIONS OPEN

TWO POSTDOCTORAL POSITIONS are available to work on projects involving drug monitoring, removal and delivery. One position requires training in molecular biology and recombinant DNA technology preferred. The second requires training in biochemistry or biochemical engineering and/or immunology preferred. Knowledge in blood coagulation or thrombosis are desirable. Send resume and names of three references to: Dr. Victor C. Yang, College of Pharmacy, The University of Michigan, Ann Arbor, Michigan 48109-1065. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

Harvard Medical School Joslin Diabetes Center POSTDOCTORAL POSITIONS

Two positions available immediately to study the immunological defects underlying the development of type 1 diabetes in a laboratory where state-of-the-art technologies are used. Current projects focus on the mechanisms of antigen-specific tolerance induction and the nature of immune recognition (Science, 259: 1165, 1993) in NOD mice. Candidates should have a strong background in molecular biology and immunology. Please send a summary of research interests, and the names and addresses of three references to: Dr. Myra A. Lipes, Research Division, Joslin Diabetes Center, One Joslin Place, Boston, MA 02215.

NEUROBIOLOGY POSTDOCTORAL POSITION

to study collateral sprouting by peptidergic neurons. Experience with electron microscopy and immunocytochemistry is desired. Send curriculum vitae and names of three references: to Employment Specialist, Scripps Health, 359 First Street, Menlo Park, CA 94025. Equal Opportunity Employer/Male/Female/Disabled/Veteran.

POSITIONS OPEN

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EXPLORATION OF THE UNIVERSE

a challenge for Europe and its best engineers

VLT PROGRAMME SCIENTIST
(Ref.: EDG 109)

Profile: applicants should have a PhD in Astronomy or Physics and several years' experience in observational astronomy with a distinguished record of achievement in astronomical research suitable for appointment to a professorship in major universities. They should have a demonstrated ability in the use of modern telescopes and instrumentation techniques.

Responsibilities: the VLT Programme Scientist will be responsible to the Director General and work in co-operation with the VLT Programme Manager, the Associate Director for Science and the Head of the Instrumentation Division. He will provide overall scientific guidance to the VLT programme and ensure that its implementation is in accordance with the high level objectives set by the Scientific Community and the Director General. Moreover, he will provide scientific input to guide the scientific technical solutions from their definition to implementation and will participate in trade off studies taking into consideration the scientific priorities. He will be in charge of the scientific aspects of commissioning and testing the VLT. Part of his time will be spent to conduct a personal or collaborative research programme with particular emphasis on the use of the VLT.

Remuneration for this post will be commensurate with background, experience and family status. It will be compatible with the salaries paid by intergovernmental organisations.

Although preference will be given to nationals of ESO Member States, this should not discourage suitably qualified applicants from other countries from applying. Positions are open to both man and woman. It is essential that all candidates have an excellent command of English.

Applications with a brief c.v. (no supporting documentation unless requested) should specify the job reference and be submitted before August 26, 1994 to:
Personnel Administration and General Services,
European Southern Observatory,
Karl-Schwarzschild-Strasse 2, D-85748 Garching near Munich, Germany.
Tel.: 49-89.320.06.438 or 49-89.320.06.219.
ASSOCIATE SCIENTIST: Conducts numerical and theoretical studies of beam-beam effects, coherent instabilities and long-term stability problems in sub-atomic particle accelerators by application of non-linear dynamics and statistical physics methods. Collaborates with physicists conducting beam dynamics experiments to validate data and to propose/develop empirical testing of beam problem resolutions. As a minimum, applicants must have a Ph.D. in Theoretical Accelerator Physics and either two years experience in the job described above or two years as a Research Associate in accelerator theory. Applicants must have completed one post doctoral appointment in accelerator theory with an emphasis on Synchrotrons. Must have extensive background both in development of analytical methods of non-linear dynamics and statistical physics and their application to beam fluctuation and diffusion phenomena; must have conducted theoretical studies of beam-beam effects, long term stability problems, developed advanced numerical techniques for beam lifetime and diffusion simulations and collaborated in beam dynamics experimentation. All aspects of required experience must be evidenced by publically recognized professional journals or published proceedings of international physics conferences.

The position is for 40 hours per week (8:30 a.m. to 5:00 p.m.) at a salary of $52,600 per year. Applicants must have proof of legal authority to work permanently in the U.S. and should submit two copies of their resume to: Illinois Department of Employment Security, 401 S. State St. - 3 South, Chicago, IL 60605. Attn: Mr. Dennis Jones, Ref: V-IL-11430-W. NO CALLS. An employer paid advertisement.

ENVIRONMENTAL CHEMIST

Chaired Position

Georgia Institute of Technology announces the opening of a search for an Eminent Scholar in Environmental Chemistry. The general area of interest involves the ability to develop chemical and biochemical sensors, although candidates in all areas of environmental chemistry will be considered. Successful candidates will have achieved international recognition and demonstrated leadership in interdisciplinary research, with the home department being the School of Chemistry and Biochemistry. Interested candidates should send a letter of application, current CV, and the names of at least three references to: Professor Richard Browner, Environmental Scholar Search Committee, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA 30332-0400.

Nominations of potential candidates are also solicited. Applications will be evaluated as they are received, and the search will remain open until the position is filled. Applications from under-represented groups are particularly encouraged.

AN EQUAL EDUCATION/EMPLOYMENT OPPORTUNITY INSTITUTION

POSTDOCTORAL SCIENTIST

Bone Cell Biology

SmithKline Beecham, a world leader in pharmaceutical research, has an opportunity available for a Postdoctoral Scientist in Bone Biology. As part of a developing research group, the selected individual will study molecules involved in osteoblast proliferation, differentiation and function. The research will involve a multi-disciplinary approach using both cellular and molecular techniques and in vitro and in vivo models of bone cell function. Qualified candidates will have a Ph.D. in Cell Biology or a related discipline and a working knowledge of bone biology with experience in molecular biology techniques. Good communication skills and publications in peer-reviewed journals are highly desirable.

Our state-of-the-art research facility is located in suburban Philadelphia. We offer a competitive compensation/benefits package and a stimulating team environment. For confidential consideration, send your resume to: SmithKline Beecham Pharmaceuticals, Employment Administrator, Dept. H0233, P.O. Box 799, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.

SmithKline Beecham
Pharmaceuticals
Challenging the natural limits.

POSTDOCTORAL POSITION IN MOLECULAR NEURAL DEVELOPMENT

A position is available to study neural development by various approaches including gene-targeting technology. One current area of interest is to study the roles of neurotrophins and their receptors in neural development, programmed cell death and regeneration (CELL 69, 737-749; SCIENCE 263, 1447-1449; NATURE 368, 147-150). Preferred candidates will possess a strong background in molecular biology and/or neurobiology.

Applicants should send curriculum vitae, statement of research interests and experience, and the names of three references to: Dr. Kuo-Fen Lee, The Clayton Foundation Laboratories for Peptide Biology, The Salk Institute, 10010 N. Torrey Pines Road, La Jolla, CA 92037; Fax 619/552-1546. The Salk Institute is an Affirmative Action Employer.
Position Available
DIRECTOR, NATIONAL INSTITUTE OF MENTAL HEALTH
NATIONAL INSTITUTES OF HEALTH
PUBLIC HEALTH SERVICE
DEPARTMENT OF HEALTH AND HUMAN SERVICES

The National Institutes of Health (NIH) invites nominations and applications for the position of Director, National Institute of Mental Health (NIMH).

The National Institute of Mental Health provides leadership for a national program to increase knowledge and advance effective strategies to deal with problems and issues in the promotion of mental health and the prevention and treatment of mental illnesses. The Institute conducts and supports research and research training on the biological, psychological, behavioral, epidemiological, legal, and social science aspects of mental health and illnesses. The Director, NIMH, has full responsibility for the implementation of all NIMH activities which include a grant, contract, and cooperative agreement program with significant impact upon the nation's mental health and manpower development. Responsibilities include the management of a staff of over 900 employees in various scientific, technical and administrative occupations and a FY 1994 budget in excess of $613 million.

Applicants must have demonstrated progressively responsible experience in the development, administration, and evaluation of scientific mental health programs. Applicants must also demonstrate competence to assume leadership in planning, staffing, directing, coordinating, and allocating resources, and other responsibilities associated with executive leadership of a major national program. Minimum qualification requirements include a degree of Doctor of Medicine, Doctor of Philosophy, Doctor of Osteopathy, or a bachelor's or higher degree in an academic field related to the health sciences. Applicants must further meet established mandatory professional/technical and executive core requirements and additional desirable qualifications.

The individual selected for the position will receive a career appointment in the Senior Executive Service (SES) with an annual salary range of $96,830 to $120,594. Physicians may be eligible for a Physician's Comparable Allowance up to $20,000 per annum. A relocation bonus of up to 25% of base pay may be available to Federal employees. Alternatively, this position may be filled through an appointment in the Public Health Service Commissioned Corps.

Further information about the position and qualification requirements may be obtained by contacting Ms. Pat Middleton at (301) 443-9094. An Application for Federal Employment (SF 171), accompanied by a current curriculum vitae, bibliography, and three letters of reference should be submitted to Ms. Middleton at the Personnel Management Branch, National Institute of Mental Health, Parklawn Building, Room 7C15, 5600 Fishers Lane, Rockville, Maryland 20857. Completed applications (including the SF 171) must be postmarked by the closing date of the vacancy announcement, September 30, 1994.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, sexual orientation, politics, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer

The University of Sydney
AUSTRALIA

FACULTY OF SCIENCE

SENIOR RESEARCH FELLOW
Quantitative Fisheries Training Unit (Fixed Term) Reference No: A26/02

An experienced Fisheries scientist is required to develop curricula and interactive teaching programmes in population dynamics, stock assessment, quantitative research and problem solving techniques for Australian fisheries laboratories. Applicants must have experience in fisheries research dynamics. Preference will be given to applicants with experience in teaching and course development. This project is funded by the Fisheries Research Development Corporation in association with the Institute of Marine Ecology.


COMPUTER SYSTEMS OFFICER/POSTDOCTORAL FELLOW
Quantitative Fisheries Training Unit (Fixed Term) Reference No: A26/04

A skilled computer scientist is needed to develop software, data bases and data analyses for the development of training courses in quantitative fisheries biology. This project is funded by the Fisheries Research Development Corporation in association with the Institute of Marine Ecology. It is essential that applicants have independent capacity to develop software from design criteria; interactive skills in communication with other members of the unit and programming in C, C++ for Windows, Macintosh, SunUnix environments. For appointment as a Postdoctoral Fellow a PhD or equivalent qualification is essential.


Method of application for academic positions: Three copies of the application, quoting Reference No, including curriculum vitae, upon publications, and the names, addresses and telephone numbers of at least three referees must be sent to: The Personnel Officer, (Group A), Carslaw Building, (F07), The University of Sydney, NSW Australia 2006, by 18 August 1994.

Equal employment opportunity and no smoking in the workplace are University policies. The University reserves the right not to proceed with any appointment for financial or other reasons.

XOMA CORPORATION

Technology

diseases

and other

We invite

tal research

XOMA Corporation is a biotechnology company based in Berkeley and is engaged in the development of pharmaceutical products based on recombinant DNA and other technologies for the targeted treatment of infectious and immune system diseases and other serious disorders.

We invite candidates to apply for a fellowship to pursue fundamental research designed to understand the effectiveness of new therapeutic agents in vivo models of gram-negative and gram-positive bacterial sepsis and to determine the mechanisms involved. A variety of experimental approaches are used to simulate disease states and particular emphasis is placed on analysis of the cardiovascular and pulmonary consequences of bacteria or their toxic products. In addition, the effect of bacterial challenge on cytokines, metabolism and coagulation parameters is also studied.

Postdoctoral Fellows will be encouraged to exploit unique research and training resources available in the company. They will have open communication within the company and will be encouraged to publish and present their work at scientific meetings.

XOMA also welcomes applications from outstanding candidates with a strong interest in:

- Molecular Modeling/Computational Chemistry
- Molecular Biology
- Cell Biology

Candidates for Postdoctoral Fellowships should mail a resume, a list of publications, names of three references, and a brief statement of research interests and career objectives to: XOMA Corporation, Attn: Sr. Technical Recruiter, 2910 7th Street, Berkeley, CA 94710. EOE.
DEAN COLLEGE OF PHARMACY
THE UNIVERSITY OF MICHIGAN

The University of Michigan invites nominations and applications for the position of Dean of the College of Pharmacy. The College of Pharmacy is a research-intensive unit committed to excellence in professional and graduate education. The College offers programs leading to the Pharm.D. degree in the professional curriculum and the Ph.D. degree in medicinal chemistry, pharmaceutics, pharmacognosy, and pharmacy administration.

The Dean is responsible for providing academic, administrative, and fiscal leadership to the College. In order to continue the overall excellence of the College, we are seeking candidates with the following attributes: an earned doctorate or equivalent experience in a discipline related to the overall mission of the College; a distinguished scholarly record in research and education appropriate for a tenured appointment in the University at the rank of Professor; demonstrated leadership and administrative abilities and an understanding of current issues in pharmacy and health care; a dedication to the goals of affirmative action and to the development of a fully diverse faculty and student community; and a commitment to resource development.

Applications, including a curriculum vitae and the names of three references, or nominations should be sent to:

The University of Michigan
Professor Michael A. Marietta
Chair, College of Pharmacy
Dean’s Search Advisory Committee
520 East Liberty Street
The University of Michigan
Ann Arbor, MI 48104-2210

The committee will begin reviewing candidate files after October 1, 1994.

A non-discriminatory, affirmative action employer

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研究員／研究補助員

哺乳動物の遺伝子操作、
遺伝子診断、
生殖細胞の顕微操作

に関する研究分野の担当を希望する方。

〒289-05、栃木県下都賀郡石橋町下石橋花林519
（株）ワイエスニューテクノロジー研究所
Tel. Japan (81) 285-52-2821
Fax. Japan (81) 285-52-2824

募集人員：研究員／主任研究員  3名。
研究補助員                   2名。

研究期間：1994年10月から1年以上。

資格：日本の生活に順応できる方。
国籍は問いません。

応募書類：履歴書。学業成績ないしは研究業績リスト。応募理由（A 4サイズ1枚）。
推薦者2名とその連絡先。

書類送付先：所長あて郵送またはFAXで。

締切：8月20日。

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Group Leader

“Rational Drug Design”

The Hoechst Group is one of the leading pharmaceutical organizations worldwide with a dedication to develop innovative human therapeutics for a wide range of diseases including cardiovascular and metabolic diseases, as well as diseases linked with inflammatory processes. We are looking for a "Group Leader Rational Drug Design".

The group leader will direct a highly qualified team of PhD scientists combining the fields of crystallography, computational chemistry and NMR.

The successful candidate will have a PhD in either physics, chemistry or biology. We expect an internationally recognized scientist with experience in computational chemistry and structural biology, either through protein crystallography or preferably through NMR-based protein/peptide structure determinations.

Hoechst offers a stimulating scientific environment, modern laboratory equipment, encouragement to cooperate with external colleagues, an excellent salary and benefits at its Headquarter Location in Frankfurt/Main/Germany.

Please send your application to:

Hoechst AG
PA Führungskräfte
Personalmarketing/N 031
Postfach 80 03 20
65926 Frankfurt
BIOINFORMATICS

Mercator Genetics is a dynamic young biotechnology company pioneering the invention of new human therapeutics and diagnostic products based on the identification of human disease genes. Mercator is expanding our bioinformatics group and is seeking creative and motivated professionals to join our dedicated team.

COMPUTATIONAL SCIENTIST • Individual will develop a comprehensive package aimed at automating DNA sequence acquisition and analysis using database management approaches. Position is also responsible for company-wide systems management. Candidates will have a MS or Ph.D. in the sciences or mathematics and an expertise in UNIX and Macintosh based systems with demonstrated programming skills. (Job# S0729-CS)

SCIENTIST • Innovative scientist proficient in the field of genetic analysis, gene prediction and protein sequence analysis, will develop DNA sequence analysis algorithms and software program prototypes. Requires a Ph.D. in genetics, biochemistry or molecular biology. (Job# S0729-S)

SYSTEMS ADMINISTRATOR • Manage and perform system administration for Sun and Macintosh computer systems. Must have an understanding of local area networks and systems security. Knowledge of the programming languages Perl and tcsh is desirable. (Job# S0729-SA)

Interested individuals should send their curriculum vitae and the names of three references to: Employee Resources, Code: AB100, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340.

PENN UNIVERSITY OF PENNSYLVANIA

PATHOLOGY FACULTY

The Division of Anatomic Pathology of the Department of Pathology and Laboratory Medicine of the University of Pennsylvania is recruiting an Assistant Professor (tenure track) within the Section of Medical Pathology/Center for Neurodegenerative Disease Research. Candidates must have an M.D. or M.D./Ph.D. with expertise in molecular biology and a strong commitment to research. An interest in aging/neurodegenerative disease research is highly desirable, and preference will be given to candidates with Board Certification in Pathology.

Interested individuals should send a Curriculum Vitae along with the names and addresses of three references to: Dr. John Q. Trajano, Director of Medical Pathology and the Center for Neurodegenerative Disease Research, Department of Pathology and Laboratory Medicine, Hospital of the University of Pennsylvania Maloney Bldg. basement room A009, Philadelphia, PA 19104-4283.

Watershed Hydrologist
University of California, Davis

The Hydrologic Science Program of the Department of Land, Air and Water Resources seeks applicants for a nine-month tenure-track position, with a probability of extension to eleven-month employment, at the Assistant Professor level. The appointee will develop a quantitative field-experimental research program in Watershed Hydrology emphasizing processes that may include land-atmosphere interactions, precipitation and runoff, surface water and groundwater interaction, surface water wetlands, hydrology, snow hydrology and chemical cycling in watersheds. The appointee is required to teach an undergraduate general education course in watershed management. We seek a strong scientist with a Ph.D. in hydrology, engineering, earth science or closely related field with demonstrated experience in experimental watershed hydrology including the ability to conduct measurements of surface and subsurface flows as well as surface energy budgets. A quantitative background in mathematical modeling and teaching experience are desirable. The position is available July 1, 1995. Applicants should submit resume, transcripts, research and teaching statements with background in each, copies of relevant publications and manuscripts, and the names and addresses of at least four references to: Professor Wesley W. Wallender, Watershed Hydrology Search Committee, Chair, Hydrologic Science, University of California, Davis, CA 95616; telephone: (916)752-0888/1719; e-mail: wwwallender@ucdavis.edu. Applications should be postmarked by 10/31/94. A more detailed job description can be obtained from the above address or via ftp at enthusiasm.ucdavis.edu.

THE UNIVERSITY OF CALIFORNIA, DAVIS IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.
We are seeking a cell biologist with excellent communications skills, capable of hands-on research and lab supervision. This individual will develop and execute research strategies focused on understanding the molecular basis of gastrointestinal cell growth and differentiation. The ideal candidate should have experience with some of the following: intestinal cell biology and physiology, in vitro cell culture, growth factor gene families (e.g., EGF), the molecular biology and biochemistry of TGF-αs or TGF-βs, and culture of primary gastrointestinal tissue. A PhD/MD and 3-5 years' postdoctoral experience with relevant publications also required. Job code: 94-C500.

**BIOANALYTICAL SCIENCES/IMMUNOLOGY**

**Staff Scientist/Principal Scientist**

We are seeking an individual with 2+ years' postdoctoral experience in Cell Biology or a related field, to develop in vitro assays to help follow the pharmacodynamic parameters of our products. Initially the focus will be on the assessment of the immunomodulatory effects of certain products, and the development of novel assays, or adaptation of existing assays, for select primate and murine cytokines. Longer term goals will focus on the development of sensitive methods for following product activity in biological matrices to facilitate pharmacodynamic monitoring. A PhD in Cellular Biology, Immunology or a related field is required. Experience with cellular proliferation assays is essential, and familiarity with FACS and PCR is desirable. Job code: 94-C572.

**SMALL MOLECULE DRUG DISCOVERY**

**Protein Crystallographer**

We are strengthening our drug discovery efforts with the addition of a Macromolecular Crystallography laboratory. We have an opportunity for a candidate with a strong background in protein crystallography to join our Small Molecule Drug Discovery Team in the search for novel anti-inflammatory compounds. We are seeking individuals who thrive on interactions with a multidisciplinary team of Cell/Molecular Biologists, Biochemists, High throughput roboticized screening, Medicinal Chemists, NMR and Molecular Modeling Groups. We have state-of-the-art facilities including a 600MHz NMR spectrometer and molecular modeling capabilities comprising computer hardware and a full range of software for computational chemistry. The Macromolecular Crystallography laboratory will house an X-Ray generator, Rigaku R-Axis II imaging plate, diffractometer and a full range of supporting facilities. Job code: 94-C636, Internet (for this position only): JSeehra@helios.Genesics.com

For consideration, please send resume, indicating appropriate job code to: Human Resources Department, Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140. Fax: (617) 876-8847.

Genetics Institute offers competitive salaries and benefits, including comprehensive health care, dental and life insurance, three weeks' paid vacation, 401(k), stock purchase plan, relocation assistance, tuition assistance, and an on-site exercise facility. Genetics Institute is dedicated to building strength through diversity.

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**Preparing for the future**

**POSTDOCTORAL ASSOCIATES**

Ciba’s Agricultural Biotechnology Research Unit in Research Triangle Park, NC is world renowned for innovative research and development which promotes more bountiful and resilient crops.

We are seeking four (4) recent Ph.D. Scientists, each with a specific area of expertise as described below:

**Position #1** - A background in Microbial Genetics and Molecular Biology. Experience in bio-chemistry, genetics, microbiology, or molecular biology is required. The selected candidate will be part of a collaborative effort researching aspects of bacterial signal transduction and gene expression in plant-associated bacteria.

**Position #2** - Experience in Arabidopsis genetics. A background in plant pathology, prior work in map-based cloning, and strong molecular biology or biochemistry are also desirable. The successful candidate will be involved in projects to genetically dissect the signal transduction pathway leading to systemic acquired resistance in Arabidopsis.

**Position #3** - A background in Microbial Genetics, Biochemistry, and/or Molecular Biology. The successful candidate will investigate agronomic and industrial uses of a novel system for regulating gene expression in plants.

**Position #4** - Experience in protein biochemistry, antibody production, and manipulation of nucleic acids are a plus. The successful candidate will study plant disease resistance genes and their products, and identify additional host factors with which they interact in the expression of disease resistance.

We offer competitive salaries and a generous benefits package. Please send resume, and three letters of professional reference to: Y. McCoy, Human Resources, Ciba-Geigy Corporation, P.O. Box 12257, Research Triangle Park, NC 27709-2257.

**WE ARE AN EQUAL OPPORTUNITY EMPLOYER M/F/D/V.**

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**The National Research Council announces**

**Postdoctoral & Senior Research Associateship Awards to be offered in the field of Contaminant Fate and Transport in the Subsurface Environment at the EPA ROBERT S. KERR ENVIRONMENTAL RESEARCH LABORATORY in Ada, Oklahoma**

The National Research Council (NRC) is accepting applications for award competitions for Research Associateships at the Environmental Protection Agency’s Robert S. Kerr Environmental Research Laboratory in Ada, OK.

Research opportunities, for both recent Ph.D. recipients and senior researchers, exist in the areas of:

- **Multiphase Flow and Contaminant Transport in Porous Media**
- **Flow and Transport in Heterogenous Media**
- **Subsurface Biotransformation Processes**
- **Multispectral Identification of Biodegradation Products**
- **Subsurface Model Development and Evaluation**

Awards include a competitive stipend, support for relocation and travel to professional meetings, and a health insurance program.

Duration of each award is one year renewable to a maximum of three.

Applications must be submitted directly to the NRC, and are accepted on a continuous basis throughout the year. Those postmarked: by August 15, 1994 will be reviewed in the October competition; by January 15, 1995, in February; and by April 15, 1995, in June.

**For Further Information Contact:**

The National Research Council

**ASSOCIATESHIP PROGRAMS**

(TJ 2094/EK)

2101 Constitution Avenue

Washington, DC 20418

FAX: (202) 334-2759
PROTEIN ENGINEERING POSTDOCTORAL SCIENTIST
HELPING PEOPLE LIVE BETTER LIVES

We are seeking a Postdoctoral Scientist to work in an aggressive program involving protein engineering. The goal of this program is the generation of unique proteins that serve the specific needs of diagnostic laboratory medicine without changes to the lab’s current diagnostic instrumentation. The candidate should have a Ph.D. in a field which provided 1-3 years experience with various aspects of molecular biology. This background should include purification of mRNA, cDNA cloning, PCR-assembly, site-specific and cassette mutagenesis, expression of recombinant genes and M13 based sequencing. Knowledge of protein analysis methods and purification would be helpful. This individual will help solve protein structure/activity problems by working in an exciting multidisciplinary environment with on-going world-class collaborations.

The appointment is for 1 year, renewable for a second year and available now. Competitive salary, benefits and relocation allowance provided.

For consideration please forward your CV to the Human Resources Department at Boehringer Mannheim Corporation, 9115 Hague Road, Indianapolis, IN 46250. Please reference POSTDOC. Principals only please.

An Equal Opportunity Employer.

BOEHRINGER MANNHEIM CORPORATION

RESEARCH INVESTIGATOR

The Bristol-Myers Squibb Co. in Syracuse, New York is seeking a Ph.D. scientist for monoclonal antibody production. The individual will be responsible for performing in vivo and in vitro immunization procedures, fusions, maintenance, screening, subcloning, and characterization of antibody secreting hybridoma cell lines.

This position requires an individual with hands on experience in the production and purification of monoclonal antibodies from cell culture supernates and/or bioreactors. The qualified candidate should possess a Ph.D. in Biochemistry, Immunology or related discipline. Extensive experience in hybridoma technology, cell culture techniques and immunoassays is required. Experience with robotics and bioreactors is desirable.

We offer an excellent salary and comprehensive benefits. For consideration, forward your resume with salary requirements to: Manager Human Resources, Bristol-Myers Squibb, Job #SY-940112, P.O. Box 4755, Syracuse, NY 13221-4755. Equal Opportunity Employer.

Bristol-Myers Squibb Company

Research Technician/Laboratory Coordination
SKIRBALL INSTITUTE OF BIOMOLECULAR MEDICINE

A senior research technician position is immediately available in the laboratory of Dr. Dan Littman, which is currently moving to the newly built Skirball Institute of Biomolecular Medicine at New York University. Candidate will perform research in the areas of lymphocyte signaling and development, regulation to T cell gene expression, and mechanisms of retroviral pathogenesis. A BS degree is required and a minimum of two years experience in molecular biology and tissue culture, as well as experience with data base systems is desired. Responsibilities include research, organization and laboratory maintenance. We offer an excellent benefits package, including medical/dental/precription drug plans, four weeks paid vacation and NYU tuition. Please send C.V. and names of two references to William Kelly, Professional Recruiter, Human Resources Dept., 550 First Ave., New York, N.Y. 10016. Resumes must be received by August 22. EOE, M/F.

LEADING RESEARCH INTO THE 21ST CENTURY.

VICE CHANCELLOR for RESEARCH DEAN of the GRADUATE COLLEGE UNIVERSITY OF ILLINOIS at CHICAGO

The University of Illinois at Chicago seeks highly qualified applicants for the joint position of Vice Chancellor for Research and Dean of the Graduate College. The incumbent reports directly to the Chancellor and chairs the University Committee on Research (UCR), which is responsible for granting research appointments and awards to University faculty and directing of University research activities. The UCR is the University body responsible for promoting and coordinating research activities across the University. The incumbent will provide leadership in the development of an institutional research program for the University with the ultimate goal of achieving top research status in the nation.

Applications from women, minorities, and people with disabilities are strongly encouraged. The appointment is for one year, renewable.

Send applications and nominations to:
Richard L. Davidson, Ph.D., Chair, Search Committee, Dept. of Genetics (MC 669) University of Illinois College of Medicine, 808 S. Wood Street, Chicago, Illinois 60612

EXECUTIVE POSITION
U.S. FOOD AND DRUG ADMINISTRATION

The U.S. Food and Drug Administration is seeking an experienced executive to serve as the Director of the Office of Surveillance and Biometrics within the Center for Devices and Radiological Health, located in Rockville, Maryland. As a key member of the Center's senior staff, the Director of the Office of Surveillance and Biometrics develops and directs programs for monitoring the safety and effectiveness of marketed medical devices and in vitro diagnostic products. The Director plans and implements policy and strategy for, and manages the Office's programs for, surveillance and evaluation activities conducted under applicable laws and regulations of the Federal Food, Drug, and Cosmetic Act of 1938 (the "FD&C Act") and the Clinical Laboratory Improvements Amendments Act of 1988 ("CLIA 88"). The Director will work closely with the Center Director to develop a comprehensive surveillance and evaluation program to support the Center's mission.

The Director will lead the Office of Surveillance and Biometrics in the development of national policies, procedures, and guidance and the implementation of strategies to enhance the Center's commitment to the public health and safety afforded by medical devices, in vitro diagnostic products, and the quality of lab testing, and to support the Center's mission by improving surveillance and evaluation activities of the Center. The Director will be responsible for developing and implementing strategies for the efficient allocation of resources and for ensuring the proper balance of regulatory policy and scientific predictability of the Center's surveillance and evaluation programs. The Director will coordinate the provision of training and guidance to medical device establishments, FDA field offices, and other interested parties and will be responsible for coordinating with the Center's National Advisory Committee for Laboratory Medicine and the FDA's Vaccines and Related Biological Products Advisory Committee.

FDA is an Equal Opportunity Employer and is Smoke-Free.
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Garden
The Institute of Economic Botany of The New York Botanical Garden (NYBG) announces a position for FIELD BOTANIST (Ph.D. or M.S. level) with background in plant taxonomy and field experience within the United States. Duties are to collect, identify and voucher a broad range of plant taxa from the United States and its territories and possessions. Extensive travel is required. Successful applicant will participate in a study that assesses the potential utility of plant extracts in pharmaceutical products, as a part of a collaborative project with scientists from Pfizer Inc. The NYBG Institute of Economic Botany carries out basic and applied research on the relationship between people and plants. Please send curriculum vitae and names of three references to: Personnel Department-FB, The New York Botanical Garden, Bronx, NY 10458-5126. Fax: (718) 220-6504. Affective Action/Equal Opportunity/Male/ Femal/Disabled/Veteran.

CAROLINAS MEDICAL CENTER, 834-bed acute care teaching facility and one of the major referral centers in the Southeast, seeks the following in our Cannon Research Center: Research Technologist I—Responsibility for conducting research procedures, recording and interpreting observations and operation of all appropriate research equipment. Will supervise two techs and plan the daily weekly activities in the department. Experience with cardiac surgery and research required. B.S. degree or experience is required. M.S. preferred. Electron Microscopy Technician—To assist the EM Supervisor with specimen preparation, transmission electron microscopy, darkroom work, reagent preparation, sectioning of specimens and record keeping. B.S. degree or equivalent work experience in electron microscopy required. We offer an excellent salary and benefits package. For confidential consideration, please send resume to: Pam Buennemeyer, The Charlotte-Mecklenburg Hospital Authority, P.O. Box 32861, Charlotte, NC 28232. Telephone: (800) 942-6898. Equal Opportunity Employer.

WILDLIFE BIOLOGIST/ECOLOGIST. The National Biological Survey (NBS) is recruiting for the Assistant Unit Leader-Wildlife position at the South Carolina Cooperative Fish and Wildlife Research Unit at Clemson University. Candidates will be evaluated on the basis of past and potential performance, graduate
teaching skills, and ability to convert research results into management recommendations. Preference will be given to candidates with expertise in evaluation of effects of landscape level
treatments on wildlife communities in important Southeastern habitats. Federal advertisement of the GS-11-12 position will appear on the OPM register and NBS vacancy announcement. Inquiries about the application process may be directed to: Dr. David Otis, Telephone: (803) 656-0168, Email: DAVEO@CLEMSON.EDU. Affirmative Action/Equal Opportunity Employer.

MOLECULAR GENETICIST-CYTOGENETICIST. The Applied Genetics group of companies is searching for a Director for their DNA laboratory. Candidates must be Board eligible or certified in molecular genetics; cross certification in cytogenetics is desirable. The Applied Genetics group provides comprehensive services in Austin, San Antonio and surrounding areas. The DNA laboratory, located in Austin (population 450,000) offers many advantages of private practice and a comprehensive package of benefits. Contact: Ronald J. Jorgensen, DDS, Ph.D., FACMG Diagnostic Network of America 4201 Marathon Boulevard, Suite 206 Austin, TX 78756 Telephone: (512) 451-5172; Fax: (512) 451-5175

FIELD BOTANIST
THE NEW YORK BOTANICAL GARDEN
The Institute of Economic Botany of The New York Botanical Garden (NYBG) announces a position for FIELD BOTANIST (Ph.D. or M.S. level) with background in plant taxonomy and field experience within the United States. Duties are to collect, identify and voucher a broad range of plant taxa from the United States and its territories and possessions. Extensive travel is required. Successful applicant will participate in a study that assesses the potential utility of plant extracts in pharmaceutical products, as a part of a collaborative project with scientists from Pfizer Inc. The NYBG Institute of Economic Botany carries out basic and applied research on the relationship between people and plants. Please send curriculum vitae and names of three references to: Personnel Department-FB, The New York Botanical Garden, Bronx, NY 10458-5126. Fax: (718) 220-6504. Affirmative Action/Equal Opportunity/Male/ Female/Disabled/Veteran.
Putting a value on information may be difficult, but consider the cost of misinformation.

In this, the information age, your company’s information base is its most important asset. This is especially true for companies where chemical research is critical to new product development, and where profitability depends on filing patent applications perhaps only days ahead of your competition.

So how do you quantify the value of information? Or perhaps more important, how do you determine the real cost of misinformation, or of information that is prohibitively time-consuming to access (not to mention the totally hidden cost of reproducing information that is available, but unknown)? How much is misinformation costing your company in terms of wasted time, wasted human resources and wasted money?

CAS, the foremost compendium of chemical knowledge in the world, has produced a new video called The Value of Information that explores these issues and offers some new perspectives on defining the value of information for your company or organization. Its value to your company’s performance may be priceless.

For your $15 copy, simply call Chemical Abstracts Service at 1-800-755-4CAS. Or fax your request on your company’s letterhead to 1-614-447-3751.

The real value of information can be measured only in the effects it produces. And CAS is committed to providing the kind of information that makes scientists and engineers more productive, and companies more competitive.

CAS®
A Division of the
American Chemical Society

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The Centra®-GP8 outperforms other leading benchtop and kneewell systems with a full 50% more separating power on large capacity loads. It accelerates and decelerates rapidly, and with its unique three liter sealed swinging bucket rotor, generates up to 4550 xg on as many as 144 tubes. Plenty of oomph to get big jobs done fast.

While you enjoy the benefits of faster sample preparation, your operators will also love the GP8 SmartSet™ control system. With features like a simple to understand, glove-compatible Membrane Panel, Program Memory and Rotor I.D.System, the GP8’s 50% more oomph also translates into faster, more efficient set-up time and quicker results.

And finally, the GP8 has the same rugged, robust design, quality construction and uncompromising safety which have always set IEC centrifuges apart from the rest.

If you’re in the market for a large capacity centrifuge, turn to the system that gives you more power, more features and more oomph for the money.

The IEC Centra®-GP8.

The Centra-GP8 is available in refrigerated and ventilated models, and in compact bench-top or under-counter kneewell designs.