POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY

Previous vacancy has been redesignated. Applicants with teaching and research experience in microbiology or genetics are invited for a tenure-track position in the Department of Biology. Teaching responsibilities include general microbiology, introduction to genetics and general biology. Research is open for any specific area of interest. Applicants should have a Ph.D. in microbiology or genetics and have a record of productivity in the biological sciences as indicated by publications in refereed journals. Salary is competitive with those at other institutions. The successful candidate will be expected to assume teaching responsibilities for the 1999-2000 academic year. Application materials, including a letter of interest, curriculum vitae, names and addresses of three references, should be submitted by 1 September 1999. Submit applications to: Dr. Joseph P. Higgs, Chair, Department of Biology, University of Missouri—Columbia, 621 W.Sarah Street, Columbia, MO 65211.

The Department of Biology invites applications for a postdoctoral position. Qualified candidates should have a Ph.D. in biology and have research experience in the area of molecular biology. The successful candidate will be expected to work closely with a faculty member in the department. A statement of research interests and a CV should be submitted by 1 September 1999. Submit applications to: Dr. Brian Toole, Department of Biology, University of Missouri—Columbia, 621 W. Sarah Street, Columbia, MO 65211. The University of Missouri is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

FRED HUTCHINSON CANCER RESEARCH CENTER

ASSISTANT MEMBER position, Division of Clinical Research, Department of Transplantation Biology. Background required: Board-eligible or Board-certified in medical oncology with specialized training in transplantation biology. Initial appointment at Assistant Professor level. Must have a record of productivity in the biological sciences as indicated by publications in refereed journals. Salary competitive. The successful candidate will conduct research in the area of gene therapy and be expected to publish results in major journals. Submissions for extramural funding must be developed. The potential to become a group leader.

POSITIONS OPEN

Chiron Corporation, a recognized world leader in the field of biotechnology, has an opening for a TEASING BIOLOGIST. A Ph.D. and 2 to 4 years of postdoctoral experience in the fields of yeast biology and/or yeast biochemistry are required. The successful candidate will be expected to work closely with a faculty member in the department. A statement of research interests and a CV should be submitted by 1 September 1999. Submit applications to: Dr. Brian Toole, Department of Biology, University of Missouri—Columbia, 621 W. Sarah Street, Columbia, MO 65211. The University of Missouri is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

The Cardiovascular Division, University of Louisville, is seeking a faculty member at the ASSISTANT PROFESSOR level in a tenor-track position. Candidates must have at least 7 years of research experience in basic cardiac electrophysiology. Must have established skills using experimental models, including whole animal studies, cell and tissue baths and microelectrode tip dye labeling. Other duties include lecturing and supervising fellows and medical students. Ph.D. or equivalent qualifications with previous faculty appointment desirable. Please send inquiries, including curriculum vitae and letters of reference, to: Richard N. Redding, Ph.D., Chairman, Department of Medicine, University of Louisville, Louisville, KY 40202. Affirmative Action/Equal Opportunity Employer.

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

Chiron Corporation, located in the San Francisco Bay area, offers a competitive salary and benefits program. Please send a copy of your curriculum vitae and the names of three references (before 14 July 1999) to: Yeast Biology Search Chiron Corporation 4560 Horton Street Emeryville, CA 94608

ANATOMY/CBIOLOGICAL POSITION

The Department of Anatomy and Cellular Biology of Tufts University School of Medicine, Dental Medicine and Veterinary Medicine invites applications for a tenure-track position. This position will also involve membership in the Cell, Molecular and Developmental Biology Program of the Sackler School of Graduate Biomedical Sciences which is administered from this department. Applicants should possess a Ph.D. or M.D. degree, or equivalent. Applicants must have an active, independent research program with extramural funding. Preference will be given to candidates whose research emphasizes image analysis or electron microscopy but other candidates with particularly strong backgrounds in cell, developmental, or reproductive biology will also be considered. Teaching responsibilities will be in histology or gross anatomy, and experience in one of these areas is desirable. Salary and rank will be competitive with other institutions and experience. Applicants should submit curriculum vitae, names of at least four references, and a letter describing research interests, accomplishments, and teaching experience to: Dr. Bryan Toole, Department of Anatomy and Cellular Biology, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111.

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


PERSONNEL PLACEMENT 1433

PUBLICATION DATE: JUNE 1999
SmithKline Beecham

Research Director
Spain

Smithkline Beecham, a leading pharmaceutical group in Spain and in the top five worldwide, is creating a new research centre in Spain.

Research is a high priority of the Group and is being conducted in centres in several developed countries.

The new centre being built at the Technology Park at Tres Cantos in Madrid will contribute to the international research programme of the group. The specific research to be undertaken will include natural product screening to identify selected agents with antimicrobial and/or pharmacological activity. Both antimicrobial assays and mechanism based screens, involving biotechnology and biochemistry, will be used. Additionally it is intended to support a fundamental programme on expression of genes in Streptomyces and filamentous fungi.

We are looking for a top scientist (5 years plus post PhD) well experienced in molecular and cellular biology, and with organisational and managerial skills. Moreover, the successful candidate will need a good command of Spanish and English.

The main functions will be to establish, develop and manage the Research Centre, which will have an initial staff of approximately 70 people, recruited under his/her supervision.

SB offers the right candidate the opportunity of conducting top level research in a high-ranking organization of great international prestige.

The persons interested, should apply by letter to PA Consulting Group, enclosing C.V., and quoting the reference on the envelope.

All matters concerning PA are totally confidential.

Ref.: 4258

PA Consulting Group
Pº de la Castellana, 135 - 28046 MADRID (Spain)
Tel: (91) 279 65 03

Help spearhead exciting breakthroughs on the leading edge of biotechnology and molecular biological research. We're Schering-Plough and our demonstrated strengths in R&D have resulted in worldwide recognition within the healthcare industry. This is your opportunity to join a creative team working to meet the many challenges at the forefront, of the most dynamic areas of medical research.

To qualify, you must hold a BS degree in Immunology or a closely related field with 4 years' post grad work, or an MS. Prior experience in mammalian cell culture, cytochemistry and use of monoclonal antibodies is essential. A background in fluorescence flow cytometry and cell sorting is highly desirable.

We offer a highly competitive salary and an excellent benefits package. For immediate, confidential consideration, please forward your resume to: Ms. P. Valendo, Schering-Plough Research, 60 Orange Street, Bloomfield, NJ 07003. An equal opportunity employer.

*What you have in mind, we put in action.*

**Schering**

**Associate Scientist**

*If exploring the frontiers of biotechnology and molecular biology is what you have in mind, come to Schering-Plough Research.*

**ImmuLogic** is a growing company with laboratories in Cambridge, Massachusetts, and Palo Alto, California, dedicated to the creation of novel therapeutic and diagnostic products to modulate and monitor the human immune system. We employ state-of-the-art techniques and proprietary knowledge in immunology, biochemistry and molecular biology to develop products in the vaccine, allergy and autoimmune disease areas. We collaborate with world leaders in the pharmaceutical industry and in academic institutions and are already recognized as a leading force among companies focusing in immunology. We are currently adding to the outstanding scientific team at our research facility in Palo Alto, California.

**AUTOIMMUNE DISEASES RESEARCH**

**BIOCHEMIST**

Will investigate the interaction between HLA proteins and antigenic peptides and develop assay systems to monitor this interaction and investigate the structural requirements for binding. Biochemistry/Chemistry background and research experience with cell surface receptors and/or ligand binding desired. Understanding relationship between protein structure and function and 2-6 years’ postdoctoral experience with strong record of achievement is required.

**CHEMIST**

Will investigate the structural requirements for HLA protein-antigenic peptide binding via the synthesis/design of peptides and peptidomimetic drugs which interact with HLA proteins. Involves both peptide and medicinal chemistry techniques. Requires experience with computer-assisted drug design/molecular modeling technologies. Medicinal chemistry background, including experience with peptide synthesis/design, and 2-6 years’ postdoctoral experience with strong record of achievement also required.

ImmuLogic provides an outstanding working environment and state-of-the-art laboratory facilities. We have a first-rate support network of academic advisors and collaborators, an active postdoctoral program, and we support and encourage the publication of important research findings. ImmuLogic offers competitive salaries and benefits as well as equity participation through an incentive stock option program.

Please send curriculum vitae and list of publications to: ImmuLogic Pharmaceutical Corporation, 855 California Avenue, Palo Alto, California 94304, ATTN: Human Resources Department.
At Collaborative Research, a diversified biotechnology company, you'll find our work environment reflects our company name. Here, we work closely together, generating breakthroughs in a variety of areas such as manufacturing specialty biochemicals, genetic testing and developing natural and recombinant proteins. And we share the collective feeling of accomplishment that results from our efforts.

Our Name Says It All.

Ph.D. Product Development Scientist (DNA Products)

You will develop DNA based or DNA associated products. Primary responsibilities are to identify appropriate products, oversee their development, write production documents and descriptive literature, and initially produce and do quality control on the developed products. A Ph.D. in molecular biology, genomics or related discipline and experience making DNA constructions and Southern blot analysis required. Hands-on experience constructing genetic or physical maps desirable.

We offer competitive salaries and an excellent benefits package. To apply, please forward resume to: Patricia Gani, Human Resources Department, Collaborative Research, Inc., Two Oak Park, Bedford, MA 01730. An Equal Opportunity Employer.

Collaborative Research Incorporated

MOLECULAR BIOLOGIST

DNAX Research Institute is seeking two scientists to join the staff of our Molecular Biology Department. Candidates should hold either a Ph.D. or M.D. degree and have completed postdoctoral training.

The Institute conducts basic research in a variety of areas of molecular and cellular biology with an emphasis on cytokines and growth factors controlling the immune system and hemopoietic cells. We invite applicants whose research interests could take advantage of these established strengths. We are particularly interested in individuals employing molecular or biochemical approaches to cellular receptors and signal transduction, cell-cell interaction and cell adhesion molecules, or transgenic mouse models, but applicants with related interests are also encouraged to apply.

The successful candidate will be expected to establish an independent research program in his/her area of interest, and will have the opportunity to conduct basic research in the absence of teaching and grant-writing responsibilities. Institute scientists may work with postdoctoral fellows and are free to communicate their scientific findings in an open manner.

DNAX Research Institute, located near Stanford University, carries out basic research in Immunology and Molecular Biology in an open, academic environment. We are looking for individuals who can contribute to our enthusiastic & productive research program.

Interested applicants should send a curriculum vitae and the names of three references to: Human Resources Dept., DNAX Research Institute, 901 California Avenue, Palo Alto, CA, 94304-1104. DNAX is an equal opportunity employer, m/f/h.

DNAX Research Institute
Molecular Biologist

We are conducting clinical trials with a variety of promising compounds in two major therapeutic areas: pain & inflammation and central nervous system (CNS) disorders. We are also establishing a leadership position in the field of drug delivery.

Your responsibilities will be to oversee the isolation of mRNA, constructing cDNA and genomic libraries, sequencing clones and constructing expression vectors for a variety of receptor and enzyme-based projects. Excellent oral & written communication skills and previous supervisory experience are a must.

You should possess a PhD and at least 2 years' postdoctoral experience in cloning and expression vector construction, particularly of receptors.

NOVA PHARMACEUTICAL CORPORATION is a small and growing company. We offer a challenging work environment, a competitive salary and a benefits package which includes fully paid life, health and dental insurance; profit sharing and 401(k) plans; relocation assistance and stock options.

If you are interested in this opportunity to grow with Nova, please send your CV along with the names of three references and your salary history to:

Nova Pharmaceutical Corporation
Personnel—P90-054
6200 Freemport Centre
Baltimore, MD 21224-2788

Nova is an equal opportunity employer offering a smoke-free work environment.

ABBOTT LABORATORIES

Abbott Laboratories’ Diagnostic Division holds an undisputed leadership position in the development of medical diagnostic products. Our extensive technical resources create a superior environment for those who would like to make a significant personal and professional commitment.

BIOCHEMIST

The selected candidate must possess a Ph.D. in biochemistry or a related field and 0–4 years postdoctoral and/or industrial experience. Experience with EIA, RIA, and protein purification are desired. Job #D90Y.

We offer competitive compensation and benefits including a profit sharing and a stock retirement plan. We are located in an attractive suburban area approximately 30 miles north of Chicago. For consideration, please send your resume indicating job number to: Keith Allen, Corporate Placement, Abbott Laboratories, One Abbott Park Road, Abbott Park, IL 60064. Abbott is an Affirmative Action Employer.

ABBOTT LABORATORIES

Quality
Health Care
Worldwide
1888-1990

DNA PROBE ASSAY DEVELOPMENT or ASSAY VALIDATION

Roche Diagnostic Systems, Inc., a subsidiary of world-renowned Hoffmann-La Roche Inc., is a leader in the development, manufacture and marketing of diagnostic products. We are seeking self-motivated individuals to join our aggressive effort to develop in vitro human diagnostic products based on Polymerase Chain Reaction (PCR) DNA amplification.

The positions available are at several levels within DNA Probe and PCR amplification groups. Experience in the areas of clinical sample processing, PCR amplification and detection, nucleic acid hybridization techniques or assay validation desirable.

We offer an outstanding compensation package commensurate with your experience and education, as well as significant growth potential in the development of a powerful new application of biotechnology. For consideration, please send your resume, including a list of references and present salary (those without this information will not be acknowledged), to: Mrs. Eleanor M. Malone, Staffing and Employees Services, Department JL, Hoffmann-La Roche Inc., New Jersey 01110. We are an equal opportunity employer.

Roche Diagnostic Systems

a subsidiary of Hoffmann-La Roche Inc.

SCIENTIST

Peptide/Protein Drug Delivery Systems

Exciting opportunity for a resourceful and imaginative biochemist familiar with biotechnology products to develop novel delivery systems.

The position requires a PhD in protein biochemistry or related discipline; postdoctoral and industry experience is considered a plus. You must have an in-depth understanding and practical knowledge of the behavior of recombinant peptides and proteins in aqueous solution. Facility with the usual repertoire of bio-analytical techniques is expected and knowledge of the “tricks of the trade” used in formulating peptides/proteins for therapeutic applications is a must. You will work with a multidisciplinary team of capable and highly motivated scientists to develop liposome and other lipid-based delivery systems designed to prolong the bioavailability of peptide/protein drugs administered by the parenteral and pulmonary routes.

Located in the San Francisco Bay Area, LTI is committed to providing its employees with a dynamic working environment, sophisticated facilities and a competitive salary and benefits package. For immediate consideration, please send your resume, to: Liposome Technology, Inc., Professional Staffing, Dept. RPB/HR, 1050 Hamilton Court, Menlo Park, CA 94025. LTI is an equal opportunity employer.
We’re SmithKline Beecham, one of the world’s leading pharmaceutical research and development companies. At our state-of-the-art R&D complex in suburban Philadelphia, researchers enjoy an atmosphere of scientific freedom and numerous opportunities for growth. Right now, we have an opportunity for Ph.D. Scientists in our Gene Expression and Biological Process Sciences Departments.

**EUCARYOTIC GENE EXPRESSION**

You’ll conduct research to improve our current mammalian expression systems and develop novel systems for the expression of heterologous proteins. Requirements are a Ph.D. in Genetics, Microbiology, Biochemistry or related discipline, 2-6 years of postdoctoral experience (1-2 years in industry preferred), and excellent communication skills. Experience in CHO is preferred, but expertise in other higher eucaryotic expression systems will be considered. Please refer to JOB #S0132.

**BIOLOGICAL PROCESS SCIENCES**

You’ll plan and conduct lab experiments in the areas of cell physiology, biochemistry and nutrition, specifically in the development of serum-free media, optimization of product expression and the evaluation of environmental factors. Qualifications include a Ph.D. in Cell Biology, Cell Physiology, or Biochemistry, postdoctoral experience and excellent communication skills. Please refer to JOB #S0133.

For confidential consideration send your resume to: Barbara Schwartz, Senior Employment Administrator, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406. We are an Equal Opportunity Employer, M/F/H/V.

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**ENDOWED CHAIR**

**CHAIRMAN, NEW GENETICS DEPARTMENT**

St. Jude Children’s Research Hospital, a private research institute, is creating a new Department of Genetics. The chairperson will be expected to direct an internationally recognized research program in contemporary genetics and will shape the future of genetics research within the institution through new faculty recruitment and by contributions to its overall scientific leadership. The Department of Genetics will be located in a new 240,000 square foot research building to be completed in early 1991, which will also accommodate ongoing basic science programs in Virology and Molecular Biology, Biochemistry, Immunology, Pharmacology, and Tumor Cell Biology, leaving ample space for further future expansion. The Chairman’s salary will be provided through committed endowment funds, together with additional resources commensurate with the needs of a dynamic and ambitious individual. Opportunities exist to interact with strong clinical programs in pediatric Hematology/Oncology and Infectious Disease. Applicants should submit a curriculum vitae and the names and addresses of four references to:

James N. Ihle, Ph.D.
Chairman, Department of Biochemistry
St. Jude Children’s Research Hospital
332 North Lauderdale
Memphis, Tennessee 38105

St. Jude Children’s Research Hospital is an Equal Opportunity Employer
Research Scientists

Biopolymers
Set up multiple preclinical animal studies for the evaluation of biopolymer devices and help coordinate R&D for new products. Requires a Ph.D. in Bioengineering or Biomaterials, 3-5 yrs. experience in the development of biomedical devices, and familiarity using animal models for evaluation of biomedical products and in preclinical safety and efficacy studies.

A second individual is needed to define and implement programs to develop new materials for medical applications based on modification of biopolymers. Requires a Ph.D. in synthetic organic chemistry and 2-3 yrs. postdoctoral experience in synthesis and modification of organic compounds.

Cell Biology
A new position requires a Ph.D. in Biology or Biochemistry to conduct applied and basic research in cell biology, including work with glycoproteins, cell differentiation, intracellular protein trafficking, and cellular adhesion and migration. Candidates should have a working knowledge of protein sorting, protein glycosylation, receptor biology, and cell adhesion and differentiation.

Carbohydrate Chemistry
A carbohydrate chemist is needed to develop new methods for the synthesis of neoglycoproteins and neoglycolipids. Requires a Ph.D. in Organic Chemistry and 1-3 years of experience in carbohydrate and/or peptide chemistry.

Biochemistry
We seek a carbohydrate biochemist to develop new methods for the purification and analysis of oligosaccharides. Requires a Ph.D. in Biochemistry/Chemistry and 2-5 yrs. of experience in the structural analysis of oligosaccharides.

Research Associates
Genzyme is also looking for outstanding individuals at the Research Associate level. Requirements are a BS/MS in an appropriate scientific discipline and 2-5 yrs. relevant postgraduate laboratory experience. Openings currently exist in the following areas:

Bioorganic Chemistry
Organic Synthesis
Enzymology
Bacterial Genetics
Large-scale Tissue Culture
Molecular Biology

Genzyme
An equal opportunity employer
Neuroscientists

Pfizer Inc is an international leader in the research and development of health care products. The Department of Neuroscience of the Central Research Division is committed to innovative research leading to the discovery of novel therapeutics for the treatment of central nervous system disorders. Our approach to drug discovery encourages individual creativity as an important element in guiding a team effort toward a therapeutic target. This philosophy results in an environment that is challenging to the individual while enhancing group productivity. Scientific growth and development are stimulated by frequent interactions with prominent scientists in academia and medicine as well as with members of the research community within Pfizer.

Currently there are two positions open for research scientists with a PhD in neuroscience or related discipline and at least two years of postdoctoral experience. We are particularly interested if you have demonstrated an ability to address neuropharmacological issues with in vivo models. You are encouraged to apply if you have expertise in electrophysiological, neurochemical, or behavioral techniques can be applied productively to the study of affective disorders, anxiety, psychosis, cognition, neurodegenerative disorders, central regulation of body weight, pain or addiction.

We offer a stimulating research environment and an excellent opportunity for professional recognition and advancement. In addition we provide a competitive salary/benefits package and an opportunity to live in an attractive Connecticut shore community. Qualified applicants should submit their resume and references in confidence to: Dr. Jerry K. Larson, Assistant Director, Employee Resources, Central Research Division, Pfizer Inc, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

Clinical Scientist

CNS

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert is seeking candidates for the position of Clinical Scientist, to work in the Central Nervous System therapeutic area at their worldwide headquarters in Ann Arbor, Michigan.

The successful candidate will primarily be responsible for conducting clinical studies of new, investigational drugs at the Phase 2/3 stage of development. This includes: protocol design and development; budget negotiations; identification and selection of clinical investigators; monitoring of ongoing studies; maintaining documentation and evaluating results; and assisting in the preparation of New Drug Applications and comparable documents for foreign registrations.

Candidates should have a graduate degree (PhD, PharmD, or MS) in an area of neurobiology or possess an equivalent level of training and experience with at least 3 years' experience in clinical research in the CNS area. Prior industry experience is highly desirable. Outstanding oral and written communication skills are essential, as is the ability to work well as part of a multi-disciplinary team.

Located adjacent to the North Campus of the University of Michigan, the PARKE-DAVIS Ann Arbor Research facility offers a modern (smoke-free) research environment. We encourage independent thought, offer opportunities for self-development and reward responsible risk-taking. The Midwest charm of Ann Arbor is only minutes away from a major international airport with ready access to big-city sports, shopping and cultural events.

Interested, qualified applicants should send their resume or CV with references in confidence to Mr. Lance Williams, Human Resources, PARKE-DAVIS, 2800 Plymouth Road, Ann Arbor, MI 48105. Refer to opening #90201 when applying.

"Equal Opportunity in Action"

PARKE-DAVIS

A DIVISION OF WARNER LAMBERT

IMUNOLOGIST

Applications are invited for a faculty position as an Assistant/Associate Professor in Immunology for the Department of Pathology and Laboratory Medicine at the University of Florida, College of Medicine, with a joint appointment in the Division of Immunology, Department of Pediatrics. This position will be available October 1, 1990 and requires an M.D. and/or Ph.D. degree and post-doctoral research experience. Applicants should have demonstrated ability to conduct high quality research in either molecular or cellular immunology, while candidate will be expected to participate in the teaching of graduate and medical students in the field of Immunology and Immunopathology. Ample research laboratory space is located adjacent to the University of Florida Molecular Biology Core facilities and within the immunobiology unit of the Department of Pediatrics.

Please send CV, letter stating present research efforts and future research goals and the names and addresses of three references September 1, 1990 to:

Richard T. Smith, M.D.
Department of Pathology
Box J 275 JHMHC
Gainesville, Florida 32610

EQUAL OPPORTUNITY EMPLOYER/ AFFIRMATIVE ACTION
ADVANCING THE FRONTIERS OF BIOTECHNOLOGY

Amgen is a major bio-pharmaceutical company discovering, developing, and marketing human health care products based on recombinant DNA technology. Our commitment to finding answers to disease within human physiology rather than chemical pharmacology has established us as an industry leader.

Our rapid growth is constantly creating opportunities for innovative and motivated scientists and associates at the Ph.D., MS, and BS level who wish to share Amgen's dedication to scientific excellence. The positions below are currently available.

RESEARCH SCIENTISTS

Candidates for the Research Scientist positions must have an appropriate Ph.D. and 2-4 years' relevant post-doctoral experience as indicated:

CELL BIOLOGY  
Dept. #514
Responsibilities include developing research programs for the functional analysis of growth factors and receptors. The successful candidate will also participate in collaborative research efforts for the isolation and expression of novel factors with therapeutic potential.

A Ph.D. in mammalian cellular physiology or somatic cell genetics and experience in cellular regulation by extracellular/intracellular factors and transmembrane signaling mechanisms is required. Familiarity with cloning; cell sorting, and isolation of metabolic and drug-resistant mutants in various cell lines is essential. Ligand-receptor assay development experience is desirable.

MOLECULAR BIOLOGY  
Dept. #527
The successful candidate will be responsible for a research program leading to the identification and cloning of novel cellular growth factors involved in stem cell regeneration and recruitment.

A Ph.D. in molecular or cellular biology and experience in the characterization of cellular growth factors, cDNA cloning, and the expression of recombinant- proteins are required.

RESEARCH ASSOCIATES

Candidates for all Research Associate positions must have a BS or MS degree in a discipline relevant to the following job descriptions:

BIOCHEMISTRY  
Dept. #507
Contributions will be made to ongoing research efforts in the identification of novel hematopoietic growth factors as well as comparing and characterizing recombinant and natural proteins.

A minimum of two years' experience in mammalian cell culture and general biochemical techniques is required. Familiarity with immunological and biological assays for the quantification of biological activity is essential.

MOLECULAR BIOLOGY  
Dept. #509
Our Molecular Biology Groups have several opportunities available with responsibilities including assay development, cDNA cloning, and general molecular biology as they relate to a number of on-going research projects.

A minimum of two years' experience in molecular and cellular biology, basic gene cloning, and mammalian tissue culture is essential. Familiarity with a variety of bio-assays, cDNA cloning, dideoxy DNA sequencing, and gene expression in prokaryotic and/or eukaryotic systems is highly desirable.

CELL BIOLOGY  
Dept. #533
Responsibilities include tissue culture of a variety of mammalian cell lines, and performing a number of factor dependent bio-assays in support of exploratory research programs.

A minimum of three years' experience in bio-assay development and analysis, including cell proliferation assays and soft agar cloning, is required. A background in molecular biology and the establishment of primary cell cultures is highly desirable.

Amgen is located about an hour northwest of Los Angeles in the scenic Conejo Valley, allowing for the best in Southern California living.

Amgen offers an excellent compensation and benefits package as well as the unique opportunity to contribute to the development of significant new human pharmaceuticals on the cutting edge of biotechnology.

If you have the necessary skills and qualifications and would like to be a part of a company that places a high priority on its human resources, please send a resume or complete CV, specifying the appropriate Dept. #, in confidence, to:

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

Equal Opportunity Employer

MAKING BIOTECHNOLOGY WORK
Bristol-Myers Squibb Pharmaceutical Research Institute

Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand our efforts in basic biomedical research. New research laboratories are currently under construction at our research headquarters in Princeton, New Jersey. More than at any time in the past the commitment to basic biomedical research, both at the Institute and through our academic research alliances has never been stronger.

GROUP LEADER

Virology
- Build a dynamic research team which will establish basic projects to define novel antiviral approaches, with emphasis on defining potential antiviral chemotherapy targets for influenza viruses. This position requires a Ph.D. and a minimum of 5 years postdoctoral experience. Dept. #114A

RESEARCH INVESTIGATORS

Cardiovascular Pharmacology
- Lead a Cardiovascular and Renal Pharmacology Research Group in the development of in vivo models for investigating mechanisms involved with cardiovascular and renal homeostatic systems and evaluate therapeutic agents interacting with these systems. Current emphasis is on atrial natriuretic peptide and renin-angiotensin systems and conditions related to heart failure and hypertension. Dept. #114B

Heterologous Expression
- Conduct studies involved in heterologous expression of a variety of genes in bacterial, yeast and mammalian systems. Dept. #114C

Drug Metabolism
- Conduct studies to support various drug discovery programs using various in situ, in vitro and in vivo methods to address the absorption and bioavailability of drug candidates. Experience with liquid chromatography, radioisotopes and pharmacokinetics is necessary. Dept. #114D

Positions require a Ph.D. and a minimum of 2 years postdoctoral experience.

RESEARCH ASSOCIATES

Pharmacology
- Perform in vitro experiments including cell culture, gel electrophoresis and tissue bath experiments. Dept. #114E

- Determines DNA sequences and screen c-DNA libraries with nucleotide, antibody or other defined probes. Perform mammalian cell transfection and related cell culture operations. Dept. #114F

Drug Metabolism
- Responsible for the quantification, isolation and purification of drugs and drug metabolites. A knowledge of HPLC/TLC and proficiency in the use of radioisotopes (3H and 14C is preferred.) Dept. #114G

Molecular Biology
- Basic research on the molecular analysis of growth related genes. Experience in cloning, library screening and/or expression is preferred. Dept. #114H

- This position in our developmental genetics laboratory is involved in the regulation and expression of oncogenes, growth factors and growth factor receptors during development using transgenic mice. Dept. #114J

- Establish an in situ hybridization core unit to interact with ongoing basic research on molecular characterizations of oncogenes utilizing in situ hybridization techniques, preparation of tissue sections and probes. Dept. #114K

Positions require a BS or MS and a minimum of 1 year related research experience.

Please forward your resume to (including dept. code #): Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.
IMMUNOPATHOLOGIST

STAFF POSITION in immunopathology is available now in laboratory service, West Los Angeles Veterans Administration (VA) Medical Center. Qualifications include an M.D. degree, certification in clinical or specialty pathology or equivalent experience, interest in teaching, demonstrated research ability and potential for development of an independent research program, administrative skills in developing and managing computerized laboratories to fulfill current requirements. Application with curriculum vitae and names and addresses of four references should be sent to: J. H. Howanitz, M.D., Chairperson, Search Committee for Immunopathologist, Laboratory Service 691/113, West Los Angeles, VA Medical Center, Los Angeles, CA 90073. Veterans Administration is an Equal Opportunity Employer.

DIRECTOR OPEN

New Mexico Museum of Natural History (NMNH), a state agency, seeks qualified director with demonstrated administrative and management experience in areas of personnel, budget, and planning. Applicants must possess advanced degree in a field of science or equivalent in experience. NMNH has active programs in exhibits, education, collections, and scientific research in natural sciences. Major program and building expansions involving physical science education and exhibits are anticipated. Staff of 60 serves 300,000 visitors annually in 5 year-old, 100,000-square-foot facilities. Salary range is $46,617 to $65,996 with State of New Mexico benefits. Incumbent reports to and serves at the pleasure of the Officer of Cultural Affairs. Director will interact with active Board of Trustees. Send curriculum vitae with names and addresses of three references by 1 September 1990 to: Search Committee, New Mexico Museum of Natural History, P.O. Box 7010, Albuquerque, NM 87194–7010. Affirmative Action/Equal Opportunity Employer.

ECOTOXICOLOGY LABORATORY STUDY DIRECTOR

Exxon Biomedical Sciences, Inc., has an immediate opening for a qualified individual as a study director in our Ecotoxicology Laboratory. The state-of-the-art laboratory includes facilities to culture marine and freshwater organisms. Acute and chronic tests of products and effluents are conducted in accordance with GLP and appropriate regulatory guidelines. The position requires the individual to act as a study director with full responsibility for the study design, development of protocols, review and evaluation of the data, and final review and approval of reports. In addition, the position involves some administrative duties including scheduling and coordination of studies, training lab personnel, monitoring ongoing studies, etc. The successful candidate will have a masters in environmental toxicology or a related field and 2+ years of experience in an aquatic testing facility. A working knowledge of TSCA/FIFRA GLPs, statistical methods, PC and mainframe computers is desired. Please forward resumes to: Christine Ramos, Human Resources, Exxon Biomedical Sciences, Inc., Mettler's Road, CN 2350 East Millstone, NJ 08875–2350 Equal Opportunity Employer M/F/H/V.

DIRECTOR OF STUDENT LABORATORIES

The Department of Physiology at University of California, Los Angeles (UCLA), invites applications for a LABORATORY MANAGER/SPECIALIST to direct and supervise its student laboratories. The successful candidate will be responsible for coordinating and developing the technical aspects of the department's laboratory teaching to medical, dental, and graduate students; this is predominantly, but not exclusively, in the areas of cardiovascular, respiratory, and neuro-physiology. The position involves close interaction with the department's teaching faculty. In addition, participation in the instructional programs would be desirable, in which case the successful applicant may be appointed to an adjunct assistant professorship. Candidates must possess a Ph.D. degree (or equivalent) in physiology or a related discipline. Applicants should submit curriculum vitae, including a description of previous laboratory and/or teaching experience, and the names of three individuals prepared to provide letters of reference to: Brian J. Whipp, Ph.D., D.Sc., Department of Physiology, UCLA School of Medicine, Los Angeles, CA 90024–1751. The University of California is an Equal Opportunity/Affirmative Action Employer.

PHYSICAL SCIENCES EDITOR

Cambridge University Press (American Branch) has an immediate opening for an acquisitions editor in the physical sciences, especially in the applied fields. Our publishing program of advanced level monographs, texts, and reference works covers a wide range of disciplines, including geophysics, geology, materials science, and engineering. We prefer candidates with some graduate training. Publishing experience is desirable. Salary will be commensurate with experience and professional qualifications. Please apply in writing and indicate your salary requirements. Write to: Editorial Director, Cambridge University Press, 40 West 20th Street, New York, NY 10011.
**SCIENTIFIC COMPUTING**

SmithKline Beecham Pharmaceuticals R&D currently has a postdoctoral position available in our Scientific Computing Group. The position will focus on a research project to apply advanced mathematical techniques to understand tumor heterogeneity. This is an exciting project to use non-traditional approaches to tackle a difficult, but important problem.

Successful candidates will join a multi-disciplinary team consisting of biological and computational scientists. An advanced degree (Ph.D.) in a scientific field as well as strong, documented experience in scientific computing are essential. Candidates should have extensive experience developing and applying mathematical computational techniques to complex scientific problems. Experience with population biology, dynamical systems approaches (chaos or fractals), a biological background is desired, but not required. Especially of interest are self-motivated individuals with interests in mathematics, scientific computation, and biology.

The position will be located at our state-of-the-art facility in Upper Merion, PA. We offer an attractive compensation and benefits package. For confidential consideration, send your resume to Barbara Schwartz, S0131, Senior Employment Administrator, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406. We are an Equal Opportunity Employer, M/F/H/V.

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**BIOCHEMIST**

Research position in the enzymology of higher plant fatty acid metabolism. Applicants must have a Ph.D. in biochemistry or related field and three or more years of postgraduate experience. Proven record of innovative research in enzyme purification and characterization is essential. Direct experience with membrane-bound enzymes and/or lipid metabolism is preferred.

**MICROBIOLOGIST**

Research position in bio-degradation. Position will develop improved systems to evaluate degradation of hydrocarbons in the environment. Applicants should have an M.S. or Ph.D. in microbiology or related field experience in environmental microbiology is preferred.

Applicants should be versatile, have excellent oral and written communication skills, and enjoy working in multi-disciplinary research teams. Salaries will be commensurate with experience.

Please Forward CV To:
Russell L. Kiker
Director, Research Administration
Agrigenetics Company
5649 E. Buckeye Road
Madison, WI 53716

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The Laboratory of Clinical Studies, National Institute on Alcohol Abuse and Alcoholism, Public Health Service, invites applications for a position to study the psychobiology and molecular biology of alcoholism and its complications. Unique opportunity to become a member of a multidisciplinary team working in a 10-bed research ward and outpatient clinic at the National Institutes of Health Clinical Center, Bethesda, Maryland. State-of-the-art equipment and experienced technical support available. The salary range is $40,000 to $52,000 per annum commensurate with qualifications. Interested candidates must be board certified or eligible psychiatrists or neurologists who are U.S. citizens or permanent residents. Position information and qualification requirements may be obtained by contacting Dr. George. This position is available now. Submit Curriculum Vitae and names of three references to:

Ted George, M.D.
National Institute on Alcohol Abuse and Alcoholism
Laboratory of Clinical Studies
Building 10, Room 3B-19
9000 Rockville Pike
Bethesda, Maryland 20892
Phone: (301) 496-9705

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- Biology and Physiology of the Intestine
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Curriculum vitae, and brief statement of research interests and names of references should be submitted to:

Dr. Bruce Stillman
Cold Spring Harbor Laboratory
P.O. Box 100
Cold Spring Harbor, NY 11724

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Preference will be given to individuals with demonstrated competence in applying modern techniques of molecular biology, biochemistry or biophysics to fundamental problems in cancer pharmacology, and molecular oncology. Potential areas of interest would include, but not be limited to, the following: regulation of gene expression by oncogenes or growth factors; signaling mechanisms involved in growth control; molecular bases of drug resistance; mechanisms of action of novel anticancer drugs.

Successful candidates will be expected to establish well-funded independent research programs, to participate in the graduate and professional educational activities of the Department, and to interact closely with members of the Lineberger Cancer Research Center.

Applicants should send a curriculum vitae, a statement of research plans and the names of three referees to:

R. L. Julliano, Ph.D.
Professor and Chairman
Department of Pharmacology
CB # 7365, 1106 Fac. Lab Office Bldg.
The University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7365

Women and minority candidates are encouraged to identify themselves. Candidates are urged to apply prior to July 15, 1990. The University of North Carolina at Chapel Hill is an equal opportunity/affirmative action employer.

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As a **Group Leader or Senior Scientist** in Research and Development you will lead the development of immunoassays and diagnostic systems for infectious agents and serum analytes from product concept to market release. Positions available on several of our multi-disciplinary teams. Requires a PhD in Life Sciences or equivalent and experience developing commercial immunoassays. Dept. CL113A.

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As a **Supervisor or Senior Chemist** in Product Transfer you will guide manufacturing in product transfer, trouble shooting and validation of our growing array of clinical diagnostic products including: EIA, Electrophoresis and Clinical Chromatography. Positions available for BS, MS, and PhD levels of Clinical Chemistry or related science. Requires experience in clinical diagnostic product development, scale-up, and quality control and familiarity with cGMP's and regulatory documentation. Dept. CL113B.

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As a **Product Manager** in Clinical Diagnostic Marketing you will enable our clinical laboratory customers to provide improved and more economical services to their patients in the areas of clinical toxicology, infectious diseases, and serum analytes testing. Positions available to sponsor new products from development to the final stages of production and release for EIA, HPLC and diagnostic controls products. Requires BS or greater in Life Sciences (MBA a plus) and clinical diagnostics marketing experience. Dept. CL113C.

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For confidential consideration, please send your resume to Bio-Rad Laboratories, 1000 Alfred Nobel Dr., Hercules, CA 94547, Attn: (appropriate dept. #). Product Managers call to arrange an evening interview while at the AACC convention. (415)724-7000 ext. 5642. EOE.
Research Scientist
Molecular Virology

This position is responsible for conducting research on retroviruses and related pathogenic elements aimed at understanding mechanisms of viral infection and pathogenesis, and regulation of viral gene expression. The development of vaccines and therapy for retrovirus infections is the ultimate goal of this work. A Ph.D. in molecular biology or virology and proven expertise in recombinant DNA techniques and expression of retroviral genes in bacterial and eukaryotic systems are required.

Advanced Bioscience Laboratories, Inc. offers competitive salaries and benefits including a company-matched Incentive Savings Plan. For prompt consideration, please submit a c.v., including salary history to: Advanced Bioscience Laboratories, Inc., 3300 A Piccard Drive, Rockville, MD 20850. EOE H/V/V.

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Exxon Biomedical Sciences, Inc., has an immediate opening for a Ph.D. in environmental chemistry or a related field. Responsibilities include conducting research on xenobiotic metabolism in mammalian systems, designing and performing experiments and analyzing data, writing manuscripts and giving seminars, and participating in interdisciplinary projects that require high quality scientific contributions. Applicants should have a strong background in molecular biology, biochemistry and related areas. Please send resume and names of three references to: Director, Molecular Science, Exxon Biomedical Sciences, Inc., P.O. Box 121, East Millstone, NJ 08875-2500. Equal Opportunity Employer.

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POSTDOCTORAL RESEARCH ASSOCIATE
OR ASSISTANT PROFESSOR. Position available immediately for a neurobiologist with experience in neural cell biology and biochemistry and demonstration ability to independently develop scientific programs. Please send resume including salary requirements to: JoAnne McHugh, Miles, Inc., Cutter Biologicals, P.O. Box 1986, Berkeley, CA 94701.

Sr. Research Scientist
Cutter Biologicals, Miles Inc., a leading bay area manufacturer of biological products has an immediate opening for a research scientist with training in cell biology. The candidate will join a multi-disciplinary research and development team devoted to developing technology for large-scale mammalian cell culture. Department activities include research optimization, study of culture conditions on biosynthesis, development of analytical method for continuous monitoring and control of fermentors, design and characterization of bioreactors. This position requires a Ph.D. or equivalent experience in life sciences or biochemical engineering with expertise in mammalian cell culture and biotechnology and demonstrated ability to independently develop scientific programs. Please send resume including salary requirements to: JoAnne McHugh, Miles, Inc., Cutter Biologicals, P.O. Box 1986, Berkeley, CA 94701.

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You will lead a group of Scientists and Research Assistants in the development of bioassays to support development and predevelopment projects. To qualify, you must have a Ph.D. and at least 5 years' life sciences experience involving cell biology, tissue culture and bioassay development. Proven management and leadership skills are essential.

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Personnel Manager
GIBCO Laboratories
3175 Staley Road
Grand Island, NY 14072

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Paul Weber, M.D.
Chairperson of Neurology
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THE OHIO STATE UNIVERSITY
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Department of Microbiology and Immunology

Assistant/Associate Professor

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Stanford University is committed to increasing the representation of women and minorities on its faculty, and particularly encourages applications from such candidates.

The deadline for receipt of applications is July 1, 1990. Send application letter, and curriculum vitae, together with one copy of two recent publications, a short description of future research interests and names of three references to:

Ms. Judy Bear
Administrative Services Manager
Faculty Search Committee
Dept. of Microbiology & Immunology
Stanford University School of Medicine
Stanford, California 94305-5402

ZymoGenetics is a Seattle-based biotechnology company making important strides in the areas of diabetes research, hemostasis and tissue repair.

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Senior Staff Scientist
Position At UCSD

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This individual should have a Ph.D. in Synthetic Organic Chemistry, with a minimum of 5 years experience in drug discovery research in an industrial environment. Preference will be given to candidates with experience in Medicinal Chemistry focused on inflammation and arthritis.

The qualified candidate will be responsible for establishing a synthetic chemistry laboratory at UCSD and supervising a medicinal chemistry team. This team will help Dr. Carson and his associates explore new mechanistic approaches for the treatment of Osteoarthritis, Rheumatoid Arthritis, and other auto-immune diseases.

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The University of Minnesota invites nominations and applications for the position of Dean of the College of Agriculture and Associate Director of the Minnesota Agricultural Experiment Station. The Dean is the chief executive officer of the College of Agriculture and Associate Director of the Minnesota Agricultural Experiment Station with general administrative responsibility for College faculty, the recurring Station budgets in the College departments, and shared responsibility for state extension specialists integrated into College departments. The Dean and Associate Director report directly to the Vice President for Agriculture, Forestry and Home Economics, who is also the Director of the Minnesota Agricultural Experiment Station. The person in this position shall be appointed initially to a three-year academic administrative appointment. Reappointment to annual terms rests upon successful completion of periodic reviews. Academic rank and tenure is dependent upon qualifications and vote of peer faculty in the appropriate department.

The College of Agriculture is part of the Twin Cities Campus of the University of Minnesota and is a key part of a large land-grant university that is located in a metropolitan area of about 2.2 million people. The College has outstanding undergraduate and graduate programs, and faculty that are nationally and internationally known for their disciplinary and interdisciplinary programs that have contributed significantly to the land-grant mission of the University.

Qualifications for the position include an earned doctoral degree; experience in food or agriculture; a demonstrated record of administrative or leadership experience; and demonstrated knowledge of teaching, extension and research programs.

Send nomination(s) or an indication of interest to:

Dr. Patrick J. Borich  
Dean and Director of Minnesota Extension Service and Search Committee Chair  
Minnesota Extension Service  
University of Minnesota  
240 Coffey Hall  
1420 Eckles Avenue  
St. Paul, Minnesota 55108

Telephone: (612) 624-2703

Further information on the position and application materials will then be forwarded. Completed applications must be received by August 6, 1990.

The University of Minnesota is an equal opportunity educator and employer and specifically invites and encourages applications from women and minorities.
Regeneron Pharmaceuticals, a company dedicated to developing therapeutic agents for degenerative and traumatic neurological diseases, is seeking to apply recent advances in the understanding of neuronal growth and regeneration.

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Positions in Neurobiology require expertise in the areas of:

- Neural Regeneration (PNS/CNS)
- Models of Neuronal Disease

All positions in Neurobiology require a strong neuronomical background. Experience with receptor autoradiography and/or in situ hybridization is desirable.

Additional openings in Molecular and Cell Biology require skills in the areas of:

- Protein Biochemistry
- Mammalian Expression Vectors
- Molecular Genetics
- Monoclonal Antibodies

Regeneron’s modern facility is located on a 275-acre wooded campus in Westchester County, 20 miles north of Manhattan, near major universities and medical centers. We offer excellent compensation packages, including generous stock options. Suburban Westchester features attractive and affordable housing, outstanding public schools and recreational facilities along with ready access to the cultural and business centers of New York City.

Please forward your resume, in confidence, to: Ms. Carol Deaken, Regeneron Pharmaceuticals, Inc. 777 Old Saw Mill River Road, Tarrytown, NY 10591-6706. Equal opportunity employer.

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POSTDOCTORAL POSITIONS: MOBILE SELF-SPLICING INTRONS

Nucleic acid rearrangements of group I introns are studied at the RNA and DNA levels. Projects include analysis of self-splicing RNAs and DNA-based intron mobility in prokaryotes using genetic and biochemical approaches [Trend Genet. 5, 209 (1989)]. Protein-nucleic acid interactions also under investigation. Experience in genetics, protein, and/or nucleic acid chemistry desirable. Competitive federally funded (through Health Research, Inc.) salary commensurate with experience.

Send curriculum vitae and names of three references to: Dr. Marlene Belfort, Wadhsworth Laboratories and School of Public Health, State University of New York, Box 509, Empire State Plaza, Albany, NY 12201–0509.

POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY

Support for two positions are available beginning 1 July 1990, on an NIH training program which provides a core curriculum of interdepartmental training in basic and clinical immunology with an emphasis on developmental processes. U.S. citizenship or permanent residence is required. Please send letter of interest and curriculum vitae to: The Director, International Center for Interdisciplinary Studies of Immunology, Gorman 130, Georgetown University Medical Center, 3800 Reservoir Road, NW, Washington, DC 20007. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE/POSTDOCTORATE

Division of Cardio-Thoracic Surgery, New England Deaconess Hospital/Harvard Medical School has a 2-year position immediately available to study endothelial/vascular smooth muscle involvement in coronary vascular resistance. Ph.D. or M.D. required, molecular biology experience desirable. Send curriculum vitae and three references to: Dr. H. Reinberg, at above address, to SWRL Building, 50 Binney Street, Boston, MA 02217.

ASSOCIATE RESEARCH SCIENTIST

POSTDOCTORAL RESEARCH SCIENTIST

Position(s) available to study molecular aspects of DNA repair in yeast and human systems. Candidate should have a Ph.D. in molecular biology, biochemistry, genetics, or a related field, and preferably have experience with recombinant DNA techniques. Applicant should send curriculum vitae and the names of three references to: Dr. Howard B. Lieberman, Center for Radiological Research, Columbia University, College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032. We are an Equal Opportunity/Affirmative Action Employer.

DNA RESEARCHER

Position open in an academic setting with a large molecular biology research community. Responsible to coordinate DNA sequence and synthesis activities in a core facility. Provide expertise to and collaborate with users. Present workshops and minicourses. Send resume and three references to: Ronald L. Niece, Director, Protein/DNA Sequence Synthesis Facility, University of Wisconsin (UW) Biotechnology Center, 1710 University Avenue, Madison, WI 53706. The UW-Madison is an Equal Opportunity Employer.

ASSOCIATE RESEARCH SCIENTIST

Opening is available immediately for structural and dynamics studies of DNA lesions and drug-DNA complexes in solution. The applicant should have a strong background in chemistry, two-dimensional NMR and structure reconstruction algorithms, Ph.D. degree, and 2 years of experience required. Contact: Dr. Dinahv Patel, Department of Biochemistry and Molecular Biophysics, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

TECHNICAL EDITOR

CHEMISTRY RESEARCH ASSOCIATE

Publisher of chemistry journal seeks Ph.D. in synthetic organic chemistry to serve as technical editor and chemistry research associate. Approximately 50% of time will be devoted to editorial work and 50% to research.

Technical editorial duties will involve direction and coordination of the activities of writers engaged in preparing technical chemistry material for publication. Analysis of developments in the field to determine need for revisions, corrections, or changes. Confer with publisher to establish technical specifications. Revise draft of manuscripts and make recommendations for changes. Edit and correct final draft.

Chemistry research will involve synthesis and characterization of novel heterocyclic ring systems and their intermediates via photo-induced cyclization utilizing modern scientific instruments such as IR, NMR, chromatography, and interpretation of MS spectra. Chemistry research will also involve drug design and synthesis of heterocycles as antiviral and antitumor agents and study of structure-activity relationship.

In addition to Ph.D. in synthetic organic chemistry, applicant must have a minimum of 1 year of experience as a technical editor of a chemistry journal. Two years of experience required in chemistry research in the synthesis of heterocyclic compounds with practical experience in spectroscopic techniques, i.e., IR, NMR, chromatography.

Forty-hour work week. Salary: $30,000 per year. Interested applicants should send resume to: Division of Labor, Employment, and Training, P.O. Box C, Clearwater, FL 34618–9990. Attention: Mrs. Patricia A. Gann. Job Order Number 0284976.

MOLECULAR GENETICIST

The Center for Hereditary Communication Disorders at the Boys Town National Research Hospital is seeking an experienced Molecular Geneticist with interest in the study of human genes causing deafness to: (1) participate in ongoing research projects to clone and characterize the Usher syndrome gene and other genes involved in the hearing process; (2) develop new and innovative research programs dealing with the molecular genetics of the inner ear, and (3) acquire independent research funds. Applicants should hold a Ph.D. degree or equivalent with extensive experience with molecular biology techniques and have the ability to work independently in a team environment.

Letters of intent or applications consisting of a vitae, a summary of research interests and three letters of reference should be sent to: William J. Kimberling, Ph.D., Director, Center for Hereditary Communication Disorders, Boys Town National Research Hospital, 555 North 30th Street, Omaha, NE 68131

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RESEARCH ASSISTANT for university in central Ohio. Performs research on resistance of cells to anticancer drugs using biochemical and molecular genetic techniques. Studies drug resistance, gene amplification, and aberrant patterns of radioactive isotopes. Maintains records. Supervises cell culture facility. Maintains normal cell lines and cancer cell lines with different oncogenes. Uses gel electrophoresis, transform bacteria with various plasmids, isolates plasmid and cellular genes using restriction enzymes. Uses flow cytometry and cell sorting. DNA hybridization of cellular DNA with specific radiolabeled genes and detection by autoradiography and laser densitometry. Supervises and trains laboratory experience required in job described, but applicants will qualify with the following: M.S. pharmacology or toxicology; at least 2 years research experience in the fields described. Send resume and application to: Commander, Proving Ground, Rockville, MD 20852.

SUPERVISORY PHARMACOLOGIST OR RESEARCH CHEMIST, GM-14
Supervisory Pharmacologist or Research Chemist, GM-14, and Coordinator of the Pharmacology Support Team, Biochemical Pharmacology Branch, U.S. Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, Maryland. Responsible for supervising and managing fundamental research on mechanisms of action of toxic agents, and the development of concepts of prophylaxis and therapy. Qualification: Ph.D., M.D., or comparable research experience. Applicants must have established expertise in pharmacokinetic modeling, neurotransmitter pharmacology, enzyme kinetics, toxicokinetics, or molecular biology, as indicated through peer-reviewed publications. Demonstrated ability to effectively manage and supervise research in the above areas is highly desirable. Salary range $50,342 to $65,444 per annum. Position requires bachelor’s degree (or higher) and appropriate professional experience in chemistry of pharmacology. Ph.D. desired. U.S. citizenship is required and the applicant must be able to obtain a security clearance. Résumés must be received by 31 July 1990 and sent to: Commander, U.S. Army Aberdeen Proving Ground Support Team, STRAP-CR (Ms. C. Davies), Aberdeen Proving Ground, MD 21005-5001. Equal Opportunity Employer.

RESEARCH INVESTIGATOR / MACROMOLECULAR BIOLOGY to coordinate across disciplines in the development of programs with a macromolecular focus in an effort to assess molecular interactions between polysaccharides, proteins, and small molecules; apply the AMBER-based molecular dynamics technique of thermodynamic perturbation to predict quantitative binding free energies for macromolecular-small molecule interaction; study the cell's response to these interactions; and develop an understanding of the macromolecular mechanisms of drug action. Qualifications: Ph.D. in chemistry, biochemistry, or a closely related field. Experience in NMR and TLC/mass spectrometry techniques is desirable. The position is 100% limited and limited to 5 years. Includes relocation and travel expenses. Salary range $45,900 to $62,000. Please send résumé, statement of research interests, three letters of recommendation, and publications to: Dr. D. C. Gruenert, 14434-0780, UCSC, San Francisco, CA 94143-0780. UCSC is an Equal Opportunity/Affirmative Action Employer. Men and women are encouraged to apply.

POSITIONS OPEN
The Division of Liver Transplantation, Department of Surgery of UCSC is seeking an ASSISTANT RESEARCH SCIENTIST to establish and direct a microsurgery facility for the purpose of contributing to the research programs of the surgeons, trainees, and research staff for the department, and training residents in microsurgical techniques. The primary function of this person will be to perform successful liver allografts in rats and mice, as a model for our studies of immunosuppression and rejection mechanisms, and also to develop research projects. Qualification: Ph.D. degree with demonstrated proficiency in murine transplantation. Candidates should send curriculum vitae to: Nancy Ashley, M.D., Foundation of University of California (UCSF), San Francisco, CA 94143-0780. UCSF is an Equal Opportunity/Affirmative Action Employer. Men and women are encouraged to apply. Send the COMMANDER, Proving Ground, Rockville, MD 20852.

MEETINGS
WORKSHOP ON EPITHELIAL CELL GROWTH AND TRANSFORMATION 6–10 SEPTEMBER 1990 IN SAN FRANCISCO
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ANNOUNCEMENTS
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The Benign Essential Blepharospasm Research Foundation announces the availability of RESEARCH GRANTS providing up to $60,000 annual support for research relevant to the cause and treatment of blepharospasm and related conditions including Meige’s syndrome. The deadline is October 1990. For further information and applications, please write to: Benign Essential Blepharospasm Foundation, Inc., P.O. Box 12468, Beaumont, TX 77726-2468.

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