**Personnel Placement**

**Science** publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no abbreviations. Any advertisement must be at least 2 weeks in advance. In the U.S. distribution area, ads are limited to 10 lines for a minimum of $20. Also, personal advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference.

**LINE CLASSIFIED ADVERTISING DEADLINES:** Thursday, 2 weeks prior to issue date (mailed on issue date).

**POSITIONS WANTED**

40¢ per word, plus $4 for use of box number, per week. $10 minimum per week. Prepayment required. This rate is available only to individuals seeking jobs.

**LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth); $30.00 per line. $35.00 minimum. per week (minimum charge covers one inch on a single column; one inch equals 56 characters or 54 spaces per line). No charge for use of box number. No agency commission for classified ads.**

Prepayment required for all foreign ads. Purchase orders and/or cover letter including billing address required for all other advertising.

Structure ad copy on a separate page, on lines of 52 characters and spaces. Include any desired heading. Each line of text equals one space; double spacing is not allowed. A separate cover letter is required for each advertisement.

Send copy for all Positions Wanted ads and Line Classified ads less than 1/6 page in size (39 lines) to:

**SCIENCE Classified Advertising**

1533 H Street, NW, Room 540

Washington, DC 20005

Telephone: 202-328-6555

Send copy for Fractional Display ads 1/6 page and larger, and display ads 1/6 page and larger, and display ads, to:

**Scherago Associates, Inc.**

1515 Broadway

New York, NY 10036

Telephone: 212-730-1050

Blind ad replies should be addressed as follows:

Box (give number)

**SCIENCE**

1333 I Street, NW

Washington, DC 20005

**POSITIONS OPEN**

**AREA EXTENSION AGENT, Water Resources, Minnesota Extension Service. University of Minnesota (UM).** A multicultural university in Lake and Cook counties. Responsible for developing educational programs dealing with the broad range of water resources.

Required qualifications: bachelor's degree with emphasis in hydrology, geology, environmental engineering, or a related water resources area and 5 years of experience in the field of water resources or a master's degree with the same emphasis.


**The University of Minnesota is an Equal Opportunity Employer and an Educator, and encourages applications from women and minorities.**

The Department of Physiology, Marshall University School of Medicine, invites applications for the position of **ASSISTANT PROFESSOR** (tenure track) in physiology. This 12-month appointment can begin as early as July 1987. Candidates must have a Ph.D. in physiology, and at least 2 years of postdoctoral experience in neurophysiology. The candidate must be committed to excellence in teaching and to the development of a competitive research program. Candidates should be conversant with the ranges of activities in the School of Medicine and in the Graduate Program in Biomedical Sciences. Applicants should send curriculum vitae, representative publications, a summary of current research and proposals for future research, and letters of recommendation to: Dr. L. Howard Aulick, Department of Physiology, Marshall University School of Medicine, 1543 Spring Valley Drive, Huntington, WV 25706-2901. Applications should be submitted by 30 April 1987. Marshall University is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR, VERTEBRATE POPULATION BIOLOGY.** Available fall 1987. Ph.D. required. Teach population biology and/or biostatistics, graduate seminars; design population studies, and conduct an active research program. Special consideration may be given to wetland biologists. Curriculum vitae, statement of research goals, three letters of recommendation must be received by 1 May 1987. Send to: Dr. Gary W. Childers, Search Committee Chairman, Department of Biological Sciences, Box 814, Southeastern Louisiana University, Hammond, LA 70402. An Equal Opportunity Employer.

Department of Physiological Chemistry—University of Wisconsin, Madison. Applications are invited for a **FACULTY POSITION** at the rank of assistant, associate or full professor. The DEPARTMENT position will be available 1 September 1987 for a person with strong biochemical research and teaching interests. The abilities of the applicant are most important. Successful candidates have active basic and applied research programs in molecular biology, developmental biology, biochemistry, immunology, and genetics, and as well as teaching responsibilities for graduate and medical students. Applicants should have a Ph.D. in biochemistry, molecular biology, and as well as teaching responsibilities for graduate and medical students. Applications should be submitted by 1 May 1987. Send to: Dr. James Dahlberg, Chairman, Faculty Search Committee, 587 Medical Sciences Building, 1300 University Avenue, Madison, WI 53706 by 1 June 1987. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR, PHYSIOLOGY.** Full-time, tenure-track. **The Department of Basic Science, California College of Podiatric Medicine, seeks a Ph.D. to coordinate and teach a course in human physiology.** The position has a strong research component with an emphasis on human physiology and teaching experience. A complete curriculum vitae and the names of three references should be sent by 1 May 1987. Send to: Dr. Jerry Childers, Search Committee Chairman, Department of Basic Science, California College of Podiatric Medicine, P.O. Box 7885; San Francisco, CA 94120. An Affective Action/Equal Opportunity Employer.
POSITIONS OPEN

ASSISTANT PROFESSOR OF DEVELOPMENTAL BIOLOGY—TENURE-TRACK Pan American University, Edinburg, Texas. A tenure-track position as the assistant professor rank is open (subject to availability of funds) beginning 1 September 1987. The salary (beginning) for the assistant professor is $17,000. The assistant professor is expected to begin teaching the fall quarter of 1987. It is expected that this person will have received his/her Ph.D. in developmental biology or a related area by 1 September 1987. Preference will be given to those who have teaching experience in this area. Applicants should submit curriculum vitae, a summary of research interests, a statement of teaching philosophy, and three letters of recommendation to: Ronald D. Flaherty, Chair, Search Committee, Pan American University, Edinburg, TX 78539. Pan American University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR PLANT MOLECULAR BIOLOGIST

Department of biology is seeking applicants for a tenure-track plant molecular biology position. We seek an individual who will complement and enhance existing plant biology activities with a background in genomics or proteomics or has experience in other areas of plant molecular biology or molecular genetics. The expected teaching load is about one course per quarter, to consist of a mix of undergraduate and graduate courses, and seminar courses. To apply, send application with curriculum vitae, statement of research interests, and three letters of recommendation by 15 May 1987 to: Dr. T.C. Lu, Department of Biology, Utah State University, Logan, UT 84322–4800. Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR: TENURE-TRACK University of Washington, Seattle, Washington. The university seeks candidates at the assistant or associate professor level for a tenure-track position in Plant Molecular Biology. The department has major strengths in molecular biology, plant physiology, and plant pathology. The successful candidate is expected to establish an active research program and participate in the training of students. Applicants should have interests in any aspect of plant molecular biology and should commit to a research program with the following: physiology, biochemistry, and/or molecular biology. The candidate should have a Ph.D. degree and 3 years of appropriate postdoctoral experience. Send curriculum vitae and statements of teaching and research interests by 1 April 1987 to: Dr. M. P. Long, University of Washington, Seattle, Washington 98195. Affirmative Action/Equal Opportunity Employer.

ASSOCIATE RESEARCH PROFESSOR, PLANT MOLECULAR BIOLOGIST, tenured to begin 1 July 1987. Interest in either molecular biology or biochemistry research leading to the development of transgenic plants. This position is one of the many positions for which the university is advertising. The assistant professor is expected to begin the fall quarter of 1987. It is expected that this person will have received his/her Ph.D. in plant molecular biology or a related area by 1 July 1987. Preference will be given to those who have teaching experience in this area. Applicants should submit curriculum vitae, a summary of research interests, a statement of teaching philosophy, and three letters of recommendation to: Ronald D. Flaherty, Chair, Search Committee, Pan American University, Edinburg, TX 78539. Pan American University is an Equal Opportunity/Affirmative Action Employer.

BIOMEDICAL ENGINEERING. Eastern manufacturer of patient monitoring equipment seeks individual with a strong background in circuit design, clinical field testing, and customer coordination. We seek life science research or clinical engineering experience. Submit résumé to: Box 41, SCI-ENCE, 27 March 1987

BIOMEDICAL ENGINEERING, Eastern manufacturer of patient monitoring equipment seeks individual with strong background in circuit design, clinical field testing, and customer coordination. We seek life science research or clinical engineering experience. Submit résumé to: Box 41, SCI-ENCE.

POSITIONS OPEN

The Department of Microbiology, at The Ohio State University invites applications for a tenure-track position in Virology. The successful candidate will be expected to begin his/her teaching responsibilities in the fall quarter of 1987. The ideal candidate will join a research group involved in studies of environmental and human viruses (families of RNA and DNA) and their host cell interactions. The successful candidate will be expected to establish an active research program and to participate in the training of students. Applicants should have interests in any aspect of virology and should commit to a research program with the following: virology, cellular biology, and/or molecular biology. The candidate should have a Ph.D. degree and at least 2 years of postdoctoral experience. Applications are invited from those with research interests in any aspect of virology and are encouraged to submit a curriculum vitae and names of referees to: Dr. Philip Feigelson, Institute of Cancer Research, Columbia University, 701 West 168 Street, New York, NY 10027. Columbia University is an Equal Opportunity/Affirmative Action Employer.

CELL BIOLOGY AND PHYSIOLOGY, WASHINGTON UNIVERSITY SCHOOL OF MEDICINE, ST. LOUIS, MISSOURI

The Department of Cell Biology and Physiology, Washington University School of Medicine, St. Louis, Missouri, is expanding its commitment to research in the following areas: (i) membrane protein function and biogenesis; (ii) assembly, function, and movement of intracellular organelles; (iii) cell motility and contractility; and (iv) cell-cell and cell-matrix interactions. Individuals who employ novel biophysical and recombinant DNA methodologies are especially encouraged to apply. Tenure-track positions are available for successful candidates who will be expected to develop an independent research program and to participate in the training of graduate and undergraduate students. Applicants should submit a curriculum vitae and the names of three referees to: Dr. Philip Stahl, Department of Cell Biology and Physiology, Washington University School of Medicine, 660 S. Euclid Avenue, St. Louis, MO 63110. AN Affirmative Action/Equal Opportunity Employer.

CELL AND MOLECULAR BIOLOGIST IN NEPHROLOGY

Adjunct Assistant Professor 1 level position available. Requires Ph.D. with at least 2 years of postdoctoral experience in cell biology of renal and ureaopphilic cells with particular reference to control of cell growth. Expertise in establishment of primary cultures and development of methods for enhancement of cell growth in vitro. Experience in isolation, purification, and biochemistry of growth factors. Experience in molecular biology and novel DNA technology. Excellent publications. Salary: $34,000 per year. U.C.L.A. is an Equal Opportunity Employer. Send résumé to: Leon G. Fine, M.D., Professor and Chief, Division of Nephrology, UCLA School of Medicine, Los Angeles, CA 90024-1736.

UNIVERSITY OF QUEENSLAND

Equal Opportunity in Employment is University Policy.

DIRECTOR, COMMUNITY NUTRITION PROGRAM

Applications are invited for the position of Director, Community Nutrition Program. The appointee will be responsible for a master’s course in community nutrition conducted by the University of Queensland in collaboration with the Institute of Nutrition, Mahidol University and Khon Kaen University, in Thailand, and Universiti Kebangsaan Malaysia. The appointee, who will take part in other teaching and research activities, will be expected to have experience and qualifications in one of the behavioral, health, or agricultural sciences relevant to community nutrition in developing countries, be committed to an interdisciplinary approach to training community nutritionists, preferably have experience of “marketing” educational materials, have experience in community nutrition programs, possess good human relationships, and have contacts in the international nutrition area preferably, but not necessarily, in Asia.

Appointment will be 3 or 5 years from date of appointment, and will carry university status, title and conditions. Applications, including full curriculum vitae, and names of three referees should be submitted to: The Director, Community Nutrition Program, University of Queensland, St Lucia 4067, Australia. Telephone: 61-07-337 3837. Applications, including full curriculum vitae, and names of three referees should be submitted by 7 April 1987.

Further information may be obtained from: the retiring Director, Associate Professor M.S. Gilliland, University of Queensland, St. Lucia 4067, Queensland, Australia, Telephone: 61-07-337 3837. Applications, including full curriculum vitae, and names of three referees should be submitted by 7 April 1987.

27 March 1987

PERSONNEL PLACEMENT 1689
Molecular Biologist BS/MS

The Molecular Biology Research Unit of The Upjohn Company is currently building a group to work on molecular approaches to neurobiology. The successful Research Associate candidate will have a BS or MS degree plus at least one year of research experience in recombinant DNA techniques. This is a career position. A strong research background in cDNA/gene cloning and DNA sequencing is necessary. An interest in working in the area of diseases of the central nervous system is important, and CNS research experience and background will be a strong plus. Familiarity with in vivo expression system, such as the Xenopus oocytes and transgenic models is preferred but not required. In addition to continued work using the candidates’ expertise in molecular biology, the work will also include collaborative projects with other biotechnology units and the CNS Research group at Upjohn.

Kalamazoo is a medium-sized Southwestern Michigan community with immediate access to a rich mix of cultural, educational and recreational pursuits including numerous lakes and a four-season climate. Upjohn offers the opportunity for career growth, a competitive salary commensurate with experience, a comprehensive benefits program and relocation assistance.

For confidential consideration, please call, from outside of Michigan, toll free 1-800-253-8600, ext. 3-6767, (inside Michigan call collect 616-323-6767) to request an employment application be sent to you immediately. Please refer to ad number 1444-A when calling.

Protein Engineer

Triton Biosciences Inc., an entrepreneurial subsidiary of Shell Oil Company, is an emerging biotechnology company engaged in the development of diagnostics and therapeutics for human health care. Our company is built upon a strong base of research expertise, solid support, and responsive management.

An excellent opportunity exists for an innovative researcher in our Protein Chemistry Department. The successful candidate will apply molecular modeling techniques to the design of protein and peptide analogs which may have utility as cancer therapeutic agents. Candidates should have a Ph.D. with 3-5 years experience and a strong background in protein crystallography and computer graphics.

Triton is located in the San Francisco Bay Area and offers competitive salaries and benefits. For prompt consideration, please forward your C.V. along with salary requirements and the names of three references to: Triton Biosciences Inc., Box PE, 1501 Harbor Bay Parkway, Alameda, CA 94501. An Equal Opportunity Employer.

Postdoctoral Scientist

Drug Metabolism

The Drug Metabolism Department of Smith Kline & French Laboratories, located in suburban Philadelphia, Pennsylvania, is seeking a Postdoctoral Scientist to perform basic research in an area relevant to Drug Metabolism. This position offers the opportunity to interact with senior members of the department to facilitate professional growth. Candidates will report research results within the company and at national scientific meetings and are encouraged to publish these results in leading trade journals.

Our postdoctoral positions are normally of two years duration. The successful candidate is required to have:
- a Ph.D. in Biochemistry, Pharmacology or related area.
- experience in the preparation of subcellular fractions for studies of xenobiotic metabolism.
- working knowledge of analytical techniques such as GC and HPLC.
- demonstrated ability to apply multi-disciplinary techniques to hypothesis testing.

We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. Please forward your C.V. and the names of three references to: Robert F. Obst, R&D Senior Employment Consultant, SmithKline Beckman Corporation, 1566 Spring Garden Street, Philadelphia, PA 19101. We are an Equal Opportunity Employer, M/F/H/V.

Molecular Biologist Postdoctoral Scientist

The Molecular Biology Research Unit of The Upjohn Company is currently building a group to work on molecular approaches to neurobiology. The successful candidate will have a Ph.D. in biochemistry, molecular biology or related discipline. Significant research accomplishment with evidence by publications is important. This position will involve a two-year appointment. A strong research background in cDNA cloning and DNA sequencing is necessary. An interest in working in the area of diseases of the central nervous system is important and CNS research experience and background will be a strong plus. Familiarity with in vivo expression system such as Xenopus oocytes and transgenic models is preferred but not required. In addition to continued work using the candidate’s expertise in molecular biology, the work will also include collaborative projects with other biotechnology units and the CNS Research group at Upjohn.

Kalamazoo is a medium-sized Southwestern Michigan community with immediate access to a rich mix of cultural, educational and recreational pursuits including numerous lakes and a four-season climate.

For confidential consideration, please call toll free 1-800-253-8600, ext. 3-6767, (inside Michigan call collect 616-323-6767) to request an employment application be sent to you immediately. Please refer to ad number 21051-F when calling.

Upjohn

Our Commitment to Scientific Excellence Continues...

An Equal Opportunity Employer M/F
Accelerator Physicists

The Lawrence Berkeley Laboratory will shortly enter the construction phase of the 1-2 GeV Synchrotron Radiation Source Project. The source consists of a 1-2 GeV electron storage ring fed by a 1.5 GeV synchrotron and a 50 MeV linac. We invite applications for 2 positions within the Accelerator System Group for:

Staff Scientist II

The incumbent will assist in finalizing the parameters of the various components of the 1-2 GeV Synchrotron Radiation Source. Will participate in all aspects of Source commissioning and will play an active role in developing the Source to its fullest potential.

The successful candidate must have demonstrated experience in accelerator physics and have a proven track record in design or utilization of circular or linear accelerators. Must have specific experience in one or more of the following fields: rf design, magnet design, diagnostics, linear dynamics, control systems, feedback systems. Prefer a PhD in Physics.

Staff Scientist III

Reporting to the Head of the Accelerator Systems Group, the incumbent will bear primary responsibility for defining the detailed specifications of the storage ring for the 1-2 GeV Synchrotron Radiation Source. Will lead integration of the subsystems of the light source. Will play a lead role in the commissioning of the source. Will provide technical direction and supervision to project staff.

The successful candidate will be an experienced Accelerator Physicist, with proven expertise in the design and commissioning of electron storage rings or electron synchrotrons. Will have particular experience in at least one of the following fields: rf (design, coupled bunch instabilities), magnet design, diagnostics, control systems, feedback systems.

To apply, send 2 copies of curriculum vitae, representative publications and the names and addresses of three references to: Lawrence Berkeley Laboratory, #1 Cyclotron Road, Employment Office 90-842, Berkeley, CA 94720. Refer to Job #A/4049 for Staff Scientist II and Job #A/4090 for Staff Scientist III. An Equal Opportunity Employer. M/F/H.

RESEARCH ASSOCIATES

Protein Chemistry/Immunology

An industry leader in advanced biotechnology, Amgen develops products in the human health care area. We have immediate opportunities for Research Associates to provide support in our Protein Chemistry and Immunology Departments in the characterization of natural and recombinant proteins.

PROTEIN CHEMISTRY

Qualified candidates for the protein chemistry positions should have a BS/MS in Chemistry, Biochemistry, or a related field. Experience in the manipulation and characterization and purification of proteins is essential. Additional experience in electrophoresis and HPLC is desirable. (Dept. 240A)

IMMUNOLOGY

Qualified candidates should have a BS/MS in Immunology, Biochemistry or a related field, and experience in mammalian cell culture as well as immunoassay development. (Dept. 125)

Amgen is located in an attractive community a few hours northwest of Los Angeles and offers a stimulating and challenging scientific environment, as well as excellent compensation and benefit programs. Applicants should direct a resume and the names of 3 references to:

Recruitment (Specify Dept. #)
AMGEN
1900 Oak Terrace Lane
 Thousand Oaks, CA 91320

Equal Opportunity Employer

Abbott Laboratories’ breakthroughs in research and development have won us the undisputed world leadership position in medical diagnostics. The potential of this field is tremendous, a trend which industry experts predict will continue to grow. As the fastest growing division of our $3.8 billion corporation, our Diagnostics Division is aggressively forging ahead, creating the following positions.

M.S./Ph.D. Genetics/Molecular Biology

These individuals will work with an interdisciplinary team in the research and development of nucleic acid probes for clinically useful diagnostic assays. Candidates will have either an M.S. or a Ph.D. with at least 1-2 years postdoctoral training or equivalent.

Ph.D. Biochemists/Immunochemistry

These individuals will be involved in protein purification and immunoassay development in HTLV III and Hepatitis B research areas. You will need a Ph.D. in Biochemistry or Immunology, plus at least 2 years related postdoctoral experience. We would prefer a strong immunological background with some supervisory experience.

Voted one of the five best managed companies in 1986 by Dun’s Magazine. Abbott provides excellent salaries and comprehensive benefits including profit sharing and stock retirement plan. We are located in an attractive suburban area, just 30 miles north of Chicago. For confidential consideration, please send your resume with salary history to: Stephanie Mondello, Dept. S/3-27. Abbott is an affirmative action employer.

MEETING BOUND?

Abbott Representatives will be at the FASEB meeting in Washington, DC on March 30. If you will not be able to attend, send your resume to Stephanie Mondello.

ABBOTT
ABBOTT PARK IL 60064
"Health Care Worldwide"
BIOTECHNOLOGY, RESEARCH ASSISTANT. A challenging position for a protein chemistry specialist is open at the Rockefeller University Biomembrane Facility. Successful applicants will have a B.S. or M.S. and experience in protein or RNA synthesis. The facility is presently engaged in studies of protein synthesis, gas-phase reactions, and RNA polymerase; of protein chemistry and protein purification techniques. Salary, negotiable, based on qualifications and experience. For application, submit curriculum vitae and names of three referees to: Dr. C. H. Y. Man, Program Director, Rockefeller University, 1230 York Avenue, New York, NY 10021. An Equal Opportunity Employer.

CHAIR DEPARTMENT OF PHYSICS EMORY UNIVERSITY

Applications and nominations are invited for the position of Professor and Chair of the Department of Physics at Emory University. We seek candidates with distinguished records in research and teaching, with administrative skills, and with leadership ability to guide the Department during a period of rapid growth in size, quality, and reputation. The department, which now has twelve faculty members, will have the opportunity to add at least five to six new faculty, at both junior and senior ranks, over the next five years. It will move into high-quality space in a new research building in the summer of 1989.

The Department is committed to Emory's liberal arts tradition, with strong commitment to teaching and to philosophy, with an expectation that faculty members will be committed within that context to build graduate training and research strength in a few carefully chosen areas. Growth is expected to complement the present emphasis in condensed matter and biophysics, and offers the possibility of adding a third area of specialization yet to be chosen.

Persons interested in being considered or in nominating candidates please contact: Dr. W. H. Burton, Physics Search Committee, Emory University, 1300 Clifton Road, Atlanta, GA 30322-4146. Applications and nominations will be received until 1 December 1987 or until a suitable candidate has been found. Emory is an Equal Opportunity/Affirmative Action Employer.

CHAIRPERSON—ANATOMY

The University of Iowa College of Medicine invites applications and nominations for the position of Chairperson of the Department of Anatomy. The successful candidate must have demonstrated excellence in research and teaching, enthusiasm, and leadership ability. The responsibilities include administration of the professional and graduate teaching and research programs, followed by the integration of research and teaching. Applications should be accompanied by letter of interest and three references to: Dr. W. H. Burton, Department of Anatomy, University of Iowa College of Medicine, Iowa City, IA 52242. An Equal Opportunity/Affirmative Action Employer.

CHAIRPERSON DEPARTMENT OF BIOPHYSICS EMORY UNIVERSITY

Emory University is inviting applications or nominations for the position of Chairperson of the Department of Biophysics at Emory University. We seek candidates with distinguished records in research and teaching, with administrative skills, and with leadership ability to guide the department in its efforts to rise quickly to national distinction. The department, which now has thirteen faculty members, will have the opportunity to add at least eight new faculty members over the next five years. This growth will be based on current strengths and new strengths. Salary, negotiable, based on qualifications and experience. For application, submit curriculum vitae and names of three referees to: Dr. W. H. Burton, Program Director, Rockefeller University, 1230 York Avenue, New York, NY 10021. An Equal Opportunity Employer.

CHEMICAL ENGINEER. B.S. in chemical engineering with a minimum of 1 year of research experience or an M.S. in chemical engineering. Must have experience with FORTRAN and BASIC computer programming languages and experience with commercial spreadsheet and word processing packages. The successful candidate will develop mass and energy balances for industrial and environmental control processes using mass transfer and heat transfer principles, and will use computer software packages such as LOTUS and DBASE III to manipulate and analyze test data. Starting salary will be $2200 per month, depending on qualifications. Please apply to: Job Order Number 6109273, DOT code 008.061.022. An Equal Opportunity/Affirmative Action Employer.


CLINICAL PHARMACOLOGIST. The University of Texas Medical School at Houston invites applications for a position as part of a newly created program in clinical pharmacology. Responsibilities include research, teaching, and patient care. Preferred areas of interest include allergy, geriatrics, and oncology. Salary and rank commensurate with experience. Application deadline: 1 May 1987. Write to: Professor J. L. Berg, Department of Pharmacology, University of Texas Medical School, P.O. Box 20038, Houston, TX 77225. The deadline for the receipt of applications is 30 April 1987. An Equal Opportunity Employer. Men and women are encouraged to apply.

CLINICAL SCIENTIST for manufacturer of diagnostic kits. Requires Ph.D. in biochemistry or molecular biology with research experience. Ideally to work in an area concerned with the detection of DNA binding proteins. Contact: Dr. W. H. Burton, Program Director, Rockefeller University, 1230 York Avenue, New York, NY 10021. An Equal Opportunity/Affirmative Action Employer.

The American Paralysis Association (APA) will consider funding research proposals at all levels. We are particularly interested in projects aimed at a cure of paralysis resulting from spinal cord injury, head injury, and stroke. Areas of interest include: PHARMACOLOGICAL AGENTS AND GROWTH FACTORS EMRIOVING CELL PLANTATION ELECTRICAL, ELECTROMAGNETIC AND LIGHT STIMULATION SURGICAL TECHNIQUES AND PROCEDURES.

For information, write or call: Herbert E. Spiegel, Ph.D. Deputy Director American Paralysis Association 55 Morris Avenue, Suite 309 Springfield, NJ 07081 Telephone: 201-376-8884
We Said NO.  
So You Could Say YES!

IGEN, Inc. turned down a major pharmaceutical firm's offer to purchase us because we believe IGEN can become one of the major diagnostics and pharmaceuticals companies of the future. If you are a recent Ph.D. graduate with a research thesis in the field of chemistry and enzymology of oligonucleotides or an M.S. degree chemist with several years of experience in nucleotide chemistry, you may be qualified for the challenge.

**RESEARCH ASSOCIATE**

The successful professional will perform chemical synthesis of oligonucleotides and modified nucleotides and will develop purification and analytical procedures for these products.

If you would like to join a dynamic biotechnology firm dedicated to the development of proprietary diagnostic systems and pharmaceuticals, send your resume with salary history to: IGEN, Inc., 1530 East Jefferson Street, Rockville, Maryland 20852.

An Equal Opportunity Employer

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**BIOCHEMISTS**

**MOLECULAR/CYTOPLASMIC BIOLOGISTS**

Merck Sharp & Dohme Research Laboratories is currently seeking individuals for doctoral, post-doctoral, and masters level positions in the Department of Biological Research. We are expanding our research efforts in two areas: polypeptide growth factors and molecular biology of ion channels. Selected candidates will contribute to research in these areas using techniques of molecular and cellular biology and protein biochemistry.

Candidates must possess significant experience in gene cloning, or expertise in membrane biochemistry, enzymology, and protein purification or proficiency in tissue culture.

Excellent salary and benefits programs accompany these positions at our research facilities located 25 miles northwest of Philadelphia.

Reply in confidence to:

Manager, Personnel Relations

**MERCK SHARP & DOHME RESEARCH LABORATORIES**

West Point, PA 19486

EEO/AA/EMPLOYER

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**Assistant Director**

**Cell Culture**

The Biological Process Sciences Department of Smith & Kline & French Laboratories, located in suburban Philadelphia, Pennsylvania, is seeking an Assistant Director of its Cell Culture Group. This individual will be responsible for the scientific leadership of a team of experienced cell biologists who develop cell lines, expression systems, and culture technologies suitable for scaling-up to pilot plant and manufacturing capacities. The Group is currently engaged in highly visible assignments in major projects in S & K concerned with tissue plasminogen activator, second generation thrombolytics, and growth factors with therapeutic potential. The group is expected to conduct self-initiated research with general applications as well as research which impacts specific product opportunities.

Applicants should have a Ph.D. in Eukaryotic Cell Biology or Biochemical Engineering with a solid background in eukaryotic cell biology, and a minimum of six years experience beyond the Ph.D. degree in academia or industry. Significant experience in the scaling-up of cell culture processes beyond IOL level is required. A working knowledge of suspension, microcarrier, and membrane culture systems, GMP, RAC guidelines, and FDA guidelines for producing biopharmaceuticals in cell lines is desired. The successful candidate will have a strong publication record, outstanding oral and written communication skills, and high leadership potential.

We offer an excellent compensation, benefits and relocation packages as well as opportunities for personal and professional growth. Publication of research results is encouraged and supported. For confidential review, please forward your C.V. and names of three references to: Robert F. Olsz, R&D Senior Employment Consultant, SmithKline Beckman Corporation, 1563 Spring Garden Street, Philadelphia, PA 19101. We are an Equal Opportunity Employer, M/F/H/V.

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Join An Emerging Leader in **DNA PROBE TECHNOLOGY**

Life Technologies, Inc. is expanding its program to develop new clinical diagnostic products based on nucleic acid detection.

We are seeking:

**ASSAY DESIGN ENGINEER**

- Use your industry experience in designing and formatting of clinical diagnostics assays and systems.
- Coordinate and implement formatting concerns for DNA-based diagnostics.
- Supervise a group of interdisciplinary scientists.

We are a successful biotechnology company with a strong reputation in the industry. The leadership enjoyed by our GIBCO and BRL products in molecular and cell biology is evidence of our commitment to excellence.

Our salary and benefits are highly competitive. Our location combines the scenic countryside of suburban Maryland with the cultural vitality of Washington, D.C.

Other scientific positions are available.

Candidates should send resumes to:

Mr. Richard L. Hotaling, Jr.
LIFE TECHNOLOGIES, INC.
8717 Grovemont Circle
Gaithersburg, MD 20877

An equal opportunity employer, M/F/H/V
DIRECTOR, PUBLIC AFFAIRS OFFICE

Director, Public Affairs Office for the Ecological Society of America (ESA). Scientific credentials in ecology and experience in related environmental areas; graduate degree preferred; experience in public relations especially at the state and federal level. Familiarity with other professional societies and national scientific organizations. Maturity, judgment, and administrative/organizational skills necessary. Applicant must be able to work independently and effectively, have good interpersonal abilities, and possess persuasive communication skills. Salary negotiable based on experience. Job description available upon request. Applicants should submit: statement of interest in this position, resume, and three letters of reference emphasizing scientific credentials and experience in public affairs-related activities.

Reply to: Dr. David E. Reichle, Chairman, ESA Public Affairs Office, Oak Ridge National Laboratory, P.O. Box X, Building 1505, MS-037, Oak Ridge, TN 37831-6037 by 17 April 1987.


U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
SOUTHERN FOREST EXPEIMENT STATION

ECOLOGIST, Stoneville, Mississippi. The Southern Station is seeking an ecologist (temporary, 2 years) to conduct research on the impact of man-induced alterations on composition of the bottomland hardwood forest and on their potential for producing fiber and wildlife habitat and for providing flood protection and pollution control. Research will provide increased understanding of forest processes and may contribute to the better management of those processes. The incumbent must have knowledge of and skill in quantitatively evaluating relationships within forest ecosystems. All positions are subject to collective bargaining and equal opportunity employment. Salary range: $26,571 to $30,000.


ENTOMOLOGIST. Two research positions available at the assistant scientist II level beginning 1 July 1987. The Ph.D. is required. Salary: $34,196. (i) Entomologist to conduct epidemiological studies on the control and biology of insects damaging vegetable crops; (ii) entomologist to conduct field and laboratory investigations of the biological control of ticks. Please submit applications, consisting of undergraduate and graduate transcripts, a list of three references, curriculum vitae, reprints of publications, summary of Ph.D. thesis, and a statement of research interests to: Dr. John F. Anderson, Head, Department of Entomology, Texas A&M University, College Station, Texas 77843-3370.


ECOLOGIST/PHYSIOLOGIST. Conduct research in tree and stand responses to nutrient limitations and water and other environmental factors. Participation in applied research programs with programs in forest genetics, nutrition, biotechnology, and hardwood management. Associate or experienced assistant professor levels (3 Ph.D.) and three years experience and three letters of recommendation by 1 May 1987 to: A. W. Cooper, Head, Department of Forestry, North Carolina State University, Raleigh, NC 27695-8002.

FACULTY OPENINGS
BIOTECHNOLOGY

Faculty positions are available in the following areas: (i) Biotechnology, Technology, (ii) Recombinant DNA Technology, (iii) Protein Engineering, (iv) Bio-organic Chemistry, (v) Bio-Inorganic Chemistry, and (vi) Neurobiology. Applicants should have research backgrounds in one of these areas. Exceptional candidates will receive appointment as assistant professor. Ph.D. degree required. Salary range: $26,571 to $30,000. Application deadline is 1 August 1987. Please submit letter of application, curriculum vitae, and three letters of recommendation to: Mrs. B. Lethner, Search Committee, Department of Biology, Princeton University, Princeton, NJ 08544. The Equal Employment Opportunity of an Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGIST. The Department of Microbiology, University of Alberta, invites applications for an independent research position from qualified individuals with demonstrated research abilities in basic or applied immunology. Ability to work effectively in both biochemical/molecular approaches will be accorded special preference. Applicants should have obtained a Ph.D. degree in immunology, and must have a strong commitment to excellence in teaching and research. Salary range: $28,000 to $32,000. Applications should be sent to: Dr. S. E. Jones, Department of Microbiology, University of Alberta, Edmonton, Alberta, Canada, T6G 2E9. The closing date for applications is 30 June 1987.

The University of Alberta is an Equal Employment Opportunity Employer, and priority will be given to Canadian citizens and permanent residents of Canada.

MOLECULAR BIOLOGY AND BIOCHEMISTRY. Graduate assistantships are available in a department emphasizing student-faculty interactions. Research is expected to emphasize nucleic acid function, protein–nucleic acid interactions, DNA replication, oncogenes, biochemistry of embryonic development, physical biochemistry, NMR spectroscopy, acidic and basic phosphates, structure and mechanism, and protein folding. Tuition remission, dependency allowance, health insurance, and summer stipend are available. Only a limited number of positions are available for the positions. Write Graduate Admissions, Department of Molecular Biology and Biochemistry, Princeton University, Princeton, New Jersey 08544. The Equal Employment Opportunity of an Equal Opportunity Employer.

NEUROPOTHOLOGIST. The Department of Pathology at Columbia University College of Physicians and Surgeons, seeks one or more neuropathologists to provide diagnostic, teaching, and research functions at the college and its affiliated hospitals. The individual selected must have formal training in biochemistry, Board Certification in pathology and neuropathology, and substantial recent research support. The appointment is envisioned at the associate professor level and the applicant must meet the Columbia standards for appointment to tenure status. Resume: to: Department of Pathology, College of Physicians and Surgeons, 630 West 168 Street, New York, New York 10032. The Equal Employment Opportunity of an Equal Opportunity Employer.
MOLECULAR GENETICS BIOCHEMISTRY

The Henkel Group, a leader in applied oleochemistry, seeks Scientists to join their expanding biotechnology efforts. Positions of responsibility are available at Henkel's U.S. Research Facility in Santa Rosa, California.

RESEARCH ASSOCIATE

The successful candidate will report to the Director and assist in program development as well as conduct research. Applicants should have a Ph.D. in Biochemistry, Microbiology or related field and five or more years experience after postdoctorate in industry or academia. Scientific leadership in eukaryotic molecular genetics (yeast, fungi, plants) is essential. Experience in directing Ph.D. scientists is required.

SENIOR RESEARCH SCIENTISTS

Applicants should have a Ph.D. in Biochemistry, Microbiology or related field, preferably with postdoctoral experience. Successful candidates will plan, direct and conduct research in the use of enzymes for new and improved biochemical conversions.

For confidential consideration, send your resume, list of references and salary requirements by April 17, 1987 to:

Ms. Carol Sullivan
Director of Personnel
Henkel Research Corporation
2330 Circadian Way
Santa Rosa, CA 95407
An Equal Opportunity Employer M/F

Enzymatics, Inc.

Enzymatics is a well-financed company developing a new generation of colorimetric diagnostics for medical and industrial markets. Highly motivated scientists are being sought for the following positions:

Research Scientist- Requires a PhD in Chemistry or Biochemistry and 2+ years post doctoral experience. A 'knack' for synthetic organic chemistry and enzymology is required.

Process Development Engineer- This "hands-on" position is responsible for establishing and maintaining our manufacturing processes. Requires 7+ years of pharmaceutical or diagnostic experience. Knowledge of plastics or thin film technology is helpful.

Research Assistant- Requires an MSBS with at least two years of laboratory experience in organic chemistry or biochemistry.

These positions represent a golden opportunity to get in on the ground floor of a rapidly growing, dynamic company. Enzymatics offers competitive salaries and a stock participation plan for all employees. We will soon be relocating to the Philadelphia area. Please submit cover letter, resume and references to: Personnel, ENZYMATICS, INC., Bldg H, Bethlehem Technology Center, S. Mountain Drive, Bethlehem, PA 18015. An Equal Opportunity Employer

Research Scientist (Neurochemist)

G.D. Searle is a worldwide leader in the pharmaceutical industry. Major new directions have recently been identified by the Department of Central Nervous System Diseases Research. An opportunity now exists for a qualified Research Scientist to join an active research program in the discovery of novel drugs for the treatment of CNS disorders.

Responsibilities include:
- Establishing and supervising a biochemical laboratory
- Investigating and defining the mechanism of action of novel compounds using biochemical and pharmacological methodologies
- Collaborating with other investigators in multidisciplinary research programs
- Participating as an integral member of project teams to determine research direction

The qualified candidate will have experience in radioreceptor binding and isolated tissue assays as means to pharmacologically characterize drugs. Experience in the measurement of neurotransmitters and intracellular messengers using HPLC and radiomunoassay methods is desired. Required: Ph.D. in Biochemistry, Pharmacology or Physiology, with minimum 2 years postdoctoral experience. Must have record of publication demonstrating ability to undertake independent and creative research in the neurosciences.

This position offers excellent salary and benefits package and is located in a northern suburb adjacent to Chicago. Our location offers access to a variety of cultural and recreational facilities, several fine universities and an active neuroscience community. Qualified candidates may respond in strict confidence to: G.D. Searle & Co., R & D, Professional Staffing, A-1, 4QA, 4901 Searle Parkway, Skokie, Illinois 60077. An Equal Opportunity Employer.

Searle
SENIOR RESEARCH VIROLOGIST

The LILLY RESEARCH LABORATORIES, a Division of Eli Lilly and Company, is seeking an established Senior Microbiologist to lead our antiviral research program.

The applicant should be an accomplished doctoral level virologist with a drug discovery orientation and proven track record. The position requires a scientist familiar with current tissue culture techniques and animal models, with a background well founded in molecular virology. Preference will be given to candidates having knowledge of clinical virology.

The Senior Microbiologist will be responsible for developing and implementing an innovative antiviral program. Broadly based scientific experience and good communication skills will be essential for leading our multi-disciplinary drug discovery group.

Qualified candidates should send their curriculum vitae to:

John W. Crooks
Manager, College Relations (SRV)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

Equal Opportunity Employer

Applications are invited for a position of

PROFESSOR OF BIOTECHNOLOGY

at the Institute for Biotechnology at the ETH Zurich.

Duties of the new professor will include teaching at undergraduate and graduate levels. In addition to the existing curriculum new courses may be introduced. In research cooperation with one or more of the existing groups working in gene technology, cell biology, process engineering and plant molecular biology is expected.

The successful candidate will have teaching experience and an outstanding research record in the area of gene expression using animal cell systems; experience with transgenic animals is desirable.

Applications with curriculum vitae and list of publications (no publications) should be directed before April 30, 1987, to the President of the ETH Zurich, ETH-Zentrum, 8092 Zurich, Switzerland.

Further information about the position can be obtained from:

Carles Lopez, Ph.D.
Chairman, Search Committee
Division of Viral Diseases
Centers for Disease Control
1600 Clifton Road, N.E., 3-206
Atlanta, Georgia 30333

CDC is an Equal Opportunity Employer and provides a Smoke-Free Work Environment.
Senior Research Immunologist

To join a multidisciplinary team of biochemists, cell biologists, and pharmacologists seeking new therapeutic approaches for the control of autoimmunity and inflammation. The successful applicant will have primary responsibility for the design and development of novel animal models of inflammatory and immunologic disease processes. A Ph.D. in immunology or pharmacology and 2-3 years of postdoctoral experience is required. A strong background in biochemistry and in vivo models of inflammation is highly desirable.

Staff Immunologist

To participate in a program on the development of therapeutic human monoclonal antibodies. A strong academic background (B.S. or M.S. degree) in such areas as biochemistry, cell biology, and immunology with experience in tissue culture, protein purification, and immunochemistry is preferred.

Merck Sharp & Dohme Research Laboratories are located in Rahway, New Jersey approximately 20 miles south of New York City. Our salaries, benefits, and growth potential are excellent. Interested candidates should specify which position they are applying for and submit their curriculum vitae and salary requirements to: Ms. Alaina L. Love, Merck & Co., Inc., PO. Box 2000, RD0M-TTL, Rahway, New Jersey 07065. Equal Opportunity Employer.

Associate Scientist

Bioanalytical Development Laboratory

Schering-Plough, a $2.4-billion corporation, has established a worldwide reputation for leadership in the research, manufacture and marketing of pharmaceutical and personal care products.

We offer you an opportunity to join our Bioanalytical Laboratory research team to participate in the development of protein separation projects, including improving gel procedures. You will also provide technical support to department scientists and engineers.

This is a hands-on position, requiring in-depth knowledge of electrophoresis; iso-electric focusing; and protein blotting techniques.

Credentials must include an MS or BS in Biology, Biochemistry, or equivalent, plus 1-6 years’ (depending on degree) laboratory experience in gel electrophoresis.

We offer an attractive salary and benefits package and a stimulating, highly supportive research environment. To explore this opportunity, forward your resume and salary history, in confidence, to: Ms. J. Connolly, Schering-Plough Corporation, 1011 Morris Avenue, Union, NJ 07083. We are an equal opportunity employer.

The Universities Space Research Association and The University of Maryland seek a DIRECTOR for a CENTER OF EXCELLENCE IN SPACE DATA AND INFORMATION SCIENCES at the NASA/Goddard Space Flight Center

Applications are invited for a Director to head a new research consortium of university, industry, and government computer scientists being established as a Center of Excellence in Space Data and Information Sciences at NASA’s Goddard Space Flight Center in Greenbelt, Maryland. The Center of Excellence will be operated by the Universities Space Research Association, and the Director will hold a fully tenured faculty position in the Computer Science Department of the University of Maryland, College Park. The Center of Excellence will involve term-member researchers from leading university and industry computer science departments across the country through the use of high-bandwidth networks, in addition to supporting a resident and visiting research staff. The charter of the Center of Excellence will be to carry out state-of-the-art research on space data and information sciences in areas of potential long-term application to NASA programs in the space station era. Among the proposed thrusts for the Center of Excellence are the study of massive data base systems and architectures, image data compression, high speed on-line distributed data access systems, parallel processing applications, dynamic pattern recognition, expert data systems and natural querying languages, and automation and tele-robotics. The staff, including the university and industry members, will have access to NASA supercomputers, networks, parallel processors, data archives, image analysis systems, robots, etc.

Qualifications: The Center of Excellence will be the first research institution in the computer and information sciences to make extensive use of high band-width communication technology to link together its member faculty. We seek a dynamic and visionary scientist to lead this unique "telecenter". Applicants must be qualified for a tenured position in the Computer Science Department of the University of Maryland; must be knowledgeable in advanced data management and computational methods; and must have a demonstrated ability to lead collaborative research projects involving industry, university, and government. Salary and benefits are competitive and attractive and will depend on the individual's qualifications.

Apply no later than 15 May 1987 with complete resume on academic, professional, and personal data, including three references, to Dr. Robert Dorfman, Acting Dean, College of Computer, Mathematical, and Physical Sciences, Room 2300, Mathematics Building, University of Maryland, College Park, Maryland, 20742, (301) 454-4906.

The University of Maryland and the Universities Space Research Association are Equal Opportunity Affirmative Action Employers
POSTDOCTORAL ASSISTANT/INSTRUCTOR POSITION available immediately in the Department of Biochemistry and Molecular Biology. The successful candidate will work on projects related to the molecular biology of developing mammalian eggs. Experience in molecular biology and cell culture techniques is required. Salary is commensurate with experience (GS 11-12, $27,172 to $42,341 per annum). For information on the position and application procedures, write: Dr. C. Kurtzman, Department of Biology, 309-685-4011, extension 651. For application procedures and forms, telephone: Helen Sweeney, 309-685-4011, extension 651. Please indicate in your letter of application that you saw this advertisement in Volume 31 of Science. Sweeney is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW to work with Dr. P. Paul Akeson, Division of Basic Research, Room 629 IDR, Children’s Hospital Research Foundation, Cincinnati, OH 45229. Applications are invited for a postdoctoral position in the area of innate immune system in health and disease. Previous experience in cell biology and/or immunology is required. Applicants should send a curriculum vitae, a list of publications, three letters of recommendation and a summary of research experience to: Dr. P. Paul Akeson. Akeson is an Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL FELLOW—Massachusetts General Hospital and Harvard Medical School, Boston. Postdoctoral position in immunology/biochemistry available immediately. Thorough experience in the use of single-cell techniques is required. Offer for qualified candidates with Ph.D. or M.D. degree; tenure-track position available. Research involves structural and functional characterization of membrane and cell surface antigens by immunocytochemistry and functional assay of membrane proteins and receptors. Salary is commensurate with experience. Send curriculum vitae, copies of relevant publications, and the names, addresses, and telephone numbers of three references to: Dr. J. E. LaDouz, Division of Neurology, Cornell University Medical College, 411 East 69th Street, New York, NY 10021. CUMC is an Equal Opportunity Employer.

POSTDOCTORAL POSITION for experimental animal psychologist. To investigate drug interactions as possible means of reducing aversions (particularly heart rate) as well as effects on conditioned taste aversions (particularly their attenuation). Starting date flexible but prior to August 1987. Send applications to: Professor Sam Revusky, Department of Psychology, Memorial University of Newfoundland, St. John’s, Newfoundland, Canada, A1B 3X9. Telephone 709-737-7584.

POSTDOCTORAL POSITION for one year available immediately to join a research team working on molecular approaches to study viral diseases. Experience in molecular biology, molecular virology, and/or virology is required. Salary commensurate with qualifications and experience. Excellent fringe benefits. Send curriculum vitae, a brief summary of research interests, and three letters of reference to: Dr. Beatris G. T. Pogo, Center for Experimental Cell Biology, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is available from July 1987 for 3 years to study the neurobiology of specific curdulic acid analogs in cell-cell interaction in the embryonic developing nervous system. A background in complex carbohydrate biochemistry, neurochemistry, and/or molecular biology is preferred. Applicants should send curriculum vitae, a list of publications, three letters of recommendation and a summary of research experience to: Dr. Firoze B. Jungawala, Department of Biochemistry, E. Kennedy Shriver Center for Mental Retardation, 200 Trapelo Road, Watertown, MA 02214.

TWO POSTDOCTORAL POSITIONS are available for work on aspects of cuguriature research. One position involves the development and application of techniques and procedures for growth, harvesting and extraction of toxic dinoflagellates and the rapid separation and purification of toxins using this layer, column, and high performance liquid chromatography (HPLC). Experience in culture and toxicity testing for dinoflagellates is essential. The second position involves the physiological and pharmacological effects of these toxins on isolated organs. Experience in cell culture is essential. Experience in cell separation techniques and in the use of computer programming is a strong asset. A curriculum vitae with a reference letter should be sent to: Dr. Donald M. Miller, Department of Pharmacology, Southern Illinois University at Carbondale (SIUC), Carbondale, IL 62901. This position is funded by NIH grant. SIUC is an Equal Opportunity Employer.
MENARINI, a leader in pharmaceutical research, is seeking an experienced, highly qualified SCIENTIST to fill a challenging top management position in its research department.

The successful candidate will be responsible for coordination of research programs at Menarini as well as its related companies and the development of relative research centers.

He will be assisted, whenever necessary, by internationally recognized experts, and free to select his collaborators. Adequate means will be provided to carry out research programs.

The research centers are located in Florence and Pomezia (Rome). Headquarters are located in Florence.

An attractive salary is offered commensurate to qualification and experience.

Menarini will also consider the hiring of qualified young scientists with experience in cardiovascular, CNS, endocrine, respiratory or genito-urinary areas.

Qualified candidates are requested to submit their curriculum vitae and a list of recent publications to:

A. Menarini s.a.s.-Pharmaceutical Industries
Via Sette Santi, 3
50131 Florence, Italy.

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Molecular Geneticist

The Molecular Genetics Department of Pfizer Central Research has an immediate opening for a laboratory assistant. Applicants should possess a BS or MS in Molecular Genetics or related field and have experience in recombinant DNA methodology, preferably in yeast or E. coli.

You will be part of a small multidisciplinary team, carrying out exploratory projects. Duties will include gene cloning, expressing mammalian genes in yeast and radioisotope labelling of DNA.

In addition to a stimulating scientific environment, we also offer competitive compensation, benefit package and the opportunity to live in an attractive Connecticut shore community. Please send resume and description of research experience to: Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

Pfizer
An equal opportunity employer

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Ph.D RESEARCH SCIENTISTS

Through over 60 consecutive years of growth, Ayerst Laboratories, subsidiary of Fortune 100 American Home Products Corporation, has maintained its commitment to research.

Today, more than ever, we view research as the key to the future, the cornerstone for enhancing our strong position. To accommodate expanded research activity, we are seeking Ph.D. Research Scientists for positions in “neuropharmacology” and “drug metabolism”.

NEUROSCIENTISTS/CNS PHARMACOLOGIST

The successful candidate should possess a doctorate degree in neurobiology/pharmacology, with postdoctoral research experience and demonstrated strength in behavioral pharmacology and/or neurochemistry. This senior position is focused towards studying the effects of anti-senility drugs on learning/memory performance in animals. A broad knowledge of CNS pharmacology is required. Strong communication and computer skills are necessary, as is the desire to be part of a multidisciplinary team drug discovery/research effort. RESPOND TO DEPT KK.

DRUG METABOLISM

The successful candidate should have a Ph.D. in chemistry, pharmacology, pharmacy or biochemistry with approximately 2 years post-doctoral experience in drug metabolism and/or pharmacokinetics, the use of radioactive xenobiotics (carbon-14 and/or tritium), chromatographic techniques, and the analysis of drugs and their metabolites in biological fluids. Experience with laboratory animals and/or training in the purification and structure elucidation of xenobiotic metabolites would be additional assets. RESPOND TO DEPT MC.

Ayerst offers an excellent salary and benefits package together with outstanding opportunities for career advancement. Our ultramodern laboratory facilities are conveniently located in a picturesque central New Jersey setting. Interested candidates should forward their curriculum vitae indicating their salary history and position of interest to:

PERSONNEL MANAGER

Ayerst LABORATORIES RESEARCH, INC.
CN800
Princeton, New Jersey 08543-9990
Equal Opportunity Employer M/F/H
Research
...to build a better tomorrow

GENETICS INSTITUTE, INC., located in Cambridge, MA, is a recognized leader in the field of biotechnology. Our research is committed to the development and application of recombinant DNA technology to human health care, agriculture, and chemicals. Recent expansion of our research and development efforts has created new opportunities.

CELL BIOCHEMISTRY
We currently have an opening for a staff scientist to design and conduct research in the area of cell biochemistry. The ideal candidate will have a Ph.D. in biochemistry or related field with a minimum of three years' post doc experience in cellular biochemistry with particular emphasis on the biochemical characterization of proteins and their interaction with cellular targets. As a member of a multidisciplinary team, the candidate will be expected to participate in the identification and research planning of new project areas. Requisition # 256.

rDNA TECHNOLOGY DEVELOPMENT
An opening exists for a staff scientist to develop state-of-the-art technology in the area of rDNA research. The ideal candidate will have a Ph.D. in molecular biology with five years of relevant experience clearly demonstrating the ability to develop novel rDNA technology. Requisition # 260.

PROTEIN CHEMISTRY
We have several openings for BS/MS level Research Associates who will join our structural Protein Chemistry Group which focuses on the biochemical characterization of recombinant DNA-derived proteins. Candidates should have a general background in either enzymology or protein biochemistry and a working knowledge of techniques utilized to examine protein structure such as SDS-PAGE, IEF, enzyme assays or HPLC of biochemicals and proteins. Individuals possessing specialized skills in areas such as amino acid analysis, HPLC peptide mapping or gas phase sequencing of proteins would be particularly well suited. Requisition #482.

PROTEIN PHARMACEUTICS CHEMISTRY
We have an immediate opening for a research staff member to work in a rapidly growing group responsible for the formulation and stabilization of protein pharmaceuticals produced via recombinant DNA technology. A Bachelor's degree in biochemistry or related discipline is required, with subsequent work experience (0-5 years) preferably being in the area of physiochemical characterization of proteins and/or their purification. Knowledge of the theory and practice of a variety of methods used to examine the physical structure of proteins, such as HPLC, SDS-PAGE, fluorescence and CD spectrcoscopy, would be helpful. Requisition #499.

We offer a stimulating scientific environment in addition to a competitive salary, equity participation and comprehensive benefits package. Qualified candidates should forward their resume, in confidence, to Cindy Molnar, Employment Representative. Please refer to the appropriate Requisition # when applying for any of the above positions.

See our posting at the March FASEB meeting in Washington, D.C.

Genetics Institute
87 CambridgePark Drive, Cambridge, MA 02140
An Equal Opportunity/Affirmative Action Employer

THE MACROPHAGE COMPANY, INC.
EXCITING OPPORTUNITIES FOR QUALIFIED INDIVIDUALS

The Company
The Macrophage Company, Inc. is developing cytoxic factors from macrophages and human monocytes for treatment of cancer and other infectious and rheumatic diseases. The Company will support a team of scientists at the University of Texas System Cancer Center/MD Anderson Hospital and Tumor Institute who will use recombinant DNA and standard protein purification techniques to characterize and purify these factors.

Postdoctoral Positions Available
The newly formed scientific team is seeking a protein chemist experienced in small and large scale modern bioseparation techniques (e.g., HPLC and immunofinity chromatography).

There is also a position for a molecular biologist who has experience in eukaryotic gene cloning techniques (e.g., cDNA library construction, substraction hybridization, and sequencing).

Compensation for both positions will be commensurate with experience.

Your Commitment
Qualified persons with a background or interest in immunology or willing to make a two year commitment to this exciting project should submit CV and references to:

Martin P. Sutter, President
The Macrophage Company, Inc.
2170 Buckthorne Place, Suite 350-A
The Woodlands, TX 77380
(713) 363-7145

MEDICAL UNIVERSITY OF SOUTH CAROLINA
POSTDOCTORAL FELLOWSHIPS IN CELL AND MOLECULAR PHARMACOLOGY

Fellowships are available for Ph.D., Ph.D./M.D. or M.D. candidates in an interdisciplinary environment of basic and clinical scientists studying the tissue specific expression and function of gene-protein systems pertinent to the design and actions of new cardiovascular and other drugs. Areas of particular interest include: calcium transport proteins in excitable tissues (G.E. Lederer); cellular roles of kallkreins and kinins (H.S. Margolius, J. Chao, D. Miller); allosteric agents (M.G. Currie); thrombomodulin and other eicosanoid receptors (P.V. Halushka, D. Meis); hormones and cell structure (D.A. Baron); adenosine receptors in cardiac myocytes (W.H. Newman, J.G. Webb); neural and vascular amine transport and related proteins (T.E. Gaffney, P.J. Privitera, H.B. Daniell, E.E. Begwell, J.G. Webb); analytical and synthetic chemistry of endogenous compounds and analogs (eicosanoids, peptides) with particular emphasis on mass spectrometry of proteins; and high resolution 2D NMR of calcium binding proteins (D.R. Knapp, J. Oles, J.J. Vranbac, T. Williams, S. Martin); estrogenic and other regulatory mechanisms of hepatic P-450 isoforms (T. Walle); roles of red cell proteins in hemolytic diseases (J.J. Jollow, L.F. Price); mechanisms of steroid regulated gene expression (D. Kurtz).

Recent NIH and other grants for the above individual include approximately $7,500,000 for: individual research grants; construction of new molecular biology; hybridoma and cell culture laboratories; clinical research; and for the recruitment of additional cell and molecular biologists, chemists and other physical scientists interested in innovative approaches to therapeutic objectives.

Stipends for U.S. citizens or permanent residents funded through an NIH-supported training grant, and special stipends are available for other exceptional candidates via the College of Graduate Studies of the Medical University. Minority candidates are strongly encouraged to apply. Send resume, relevant transcripts and reprints, statement of research interests and names of three references to: Dr. H.S. Margolius, Director, Postdoctoral Training Program, Department of Cell and Molecular Pharmacology and Experimental Therapeutics, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. An Equal Opportunity Employer/Affirmative Action Employer.
Senior Biomedical Information Scientist

The Medical Research Division of American Cyanamid Company is seeking an individual with a Ph.D. in a relevant life science to contribute to the interdisciplinary research, biomedical development and marketing efforts related to the biotechnology and cancer programs.

Responsibilities include conducting retrospective literature surveys using modern information retrieval systems and monitoring current published literature for important research advances.

Individuals with prior experience with on-line biomedical information retrieval systems, substantial knowledge of information resources and good communication skills will receive preferential consideration.

Competitive salary and liberal fringe benefits are offered in this desirable suburban location 30 miles from New York City. Please reply in confidence to: Ms. Maureen Quigley, Professional Employment Representative.

American Cyanamid Company
Medical Research Division
Lederle Laboratories
Pearl River, NY 10965
An Equal Opportunity Employer m/f

HEAD PEPTIDE SYNTHESIS GROUP

We are a young, dynamic, research-driven, result-oriented company, recognized as a leader in the field of peptide synthesis. We are looking for an experienced solid-phase peptide chemist to lead our peptide synthesis group at our East coast location.

You have experience and in-depth familiarity with solid-phase peptide synthesis as well as with peptide purification. You will lead and direct a group of chemists and be responsible for development and production of new peptides.

Qualifications must include a Ph.D. and several years of working experience.

For fully confidential consideration, please send your resume to: BOX 35, SCIENCE.

A driving commitment toward research and development is a standard by which Abbott Laboratories has become a $3.8 billion leader in the medical products industry. Our expanding pharmaceutical division is constantly exploring new areas of health care, developing products that are advancing the methods of treatment for a wide variety of disorders. Currently, we seek the following professionals:

GROUP LEADER – CARDIOVASCULAR PHARMACOLOGY

The Cardiovascular Research Division has a position for a senior level pharmacologist with experience in the area of hypertension as it relates to drug discovery. The qualified candidate will be expected to lead a group of 5-7 professionals studying the role of atrial peptides and other pharmacological agents for the treatment of cardiovascular disease.

A Ph.D. specializing in pharmacology or physiology with 3+ years of experience relating to the action of antihypertensive agents is required. Candidates must possess extensive knowledge in areas of cardiac physiology, hemodynamics and renal function. A working knowledge of receptor pharmacology is desirable. Reply to Job #1.

Ph.D. CARDIOVASCULAR PHARMACOLOGIST

An immediate opening exists in the Cardiovascular Research Division for a senior research pharmacologist with a minimum of 2 years postdoctoral experience. The candidate should possess a working knowledge of the cardiovascular system with an emphasis on the Adrenergic Nervous System. Experience in receptor pharmacology is desirable with some expertise on the role and utilization of adrenergic agents for the potential treatment of various disease states. Reply to Job #2.

BS/MS PHARMACOLOGY RESEARCH ASSOCIATES

The individuals we seek will have at least two years postgraduate experience in conducting live animal hemodynamic experiments as well as good surgical skills and a familiarity with physiological recording techniques. A knowledge of computers and statistical data analysis is desirable. Reply to Job #3.

Recognized by Drum's Magazine as one of the nation's five best managed companies for 1986, Abbott is committed to excellence throughout the company. We provide an exceptional salary and benefits package, which includes profit sharing and stock retirement plan. And we're located in an attractive suburban area just 30 miles north of Chicago. For confidential consideration, please send your resume with salary history, indicating job number, to: Patricia Handy, Dept. S/3-27. Abbott is an Affirmative Action Employer.

ABBOTT
ABBOTT PARK IL 60064

"HEALTH CARE WORLDWIDE"
National Institute of Mental Health
Alcohol, Drug Abuse, and Mental Health Administration
Public Health Service

NEUROSCIENCES RESEARCH BRANCH
Centers for Neuroscience and Schizophrenia Program

Position Title: Coordinator, Centers for Neuroscience and Schizophrenia Program.
Grade and Salary: GM 13-14; $38,727-59,000. Candidates may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.
Location: National Institute of Mental Health, 5600 Fishers Lane, Rockville, MD.
Qualifications: Ph.D. in a neuroscience discipline plus direct experience in the conduct of neuroscience research, and/or M.D. degree with clinical experience in psychiatric disorders and direct experience in the conduct of neuroscience research.
Responsibilities: The NIMH Centers for Neuroscience and Schizophrenia (CNS) program will provide for development and support of research centers which combine basic neuroscience research with clinical studies of schizophrenia. The program will fund major research efforts, either at single institutions or multiple, geographically separate institutions. The coordinator will be responsible for planning, developing and administering the program.

Further Information on Program or Position: Dr. Ronald Schoenfeld, NIMH, Room 11-105, 5600 Fishers Lane, Rockville, MD 20857, (301) 443-1504

Further Information on Application: J. Harris, Personnel Specialist, 5600 Fishers Lane, Room 15C-18, Rockville, MD 20857, (301) 443-4826
Submit SF-171 to: (301) 443-4826

NIMH IS AN EQUAL OPPORTUNITY EMPLOYER

PHARMACEUTICAL

CLINICAL RESEARCH

Join our expanding team!

Stuart Pharmaceuticals, a division of ICI Americas Inc., is one of the nation's fastest growing pharmaceutical companies. During the past decade, we have tripled our sales, increased our product lines, and continued to develop new drugs in our expanding research facility. To keep pace with this growth, we need clinical research professionals with proven experience for the following career positions:

- Biostatistician—MS in Biostatistics or Applied Statistics, Knowledge of computer applications, SAS and statistical software are a must. (Respond to Job #50)
- Sr. Clinical Programmer Analyst—BS in Business, Computer Science or Life Science. Must be proficient in the use of SAS and have experience supporting clinical research efforts. (Respond to Job #51)
- Clinical Systems Analyst—MS in Biological Sciences or Computer Science plus knowledge of NDA process and 3-5 years clinical systems experience. (Respond to Job #52)
- Clinical Programmer—BS in Computer Science, Life Science, Business, or Math and programming experience. SAS knowledge preferred. (Respond to Job #53)
- Clinical Research Associate—BS in Biosciences or Nursing plus experience in clinical research. Must be available for travel. (Respond to Job #54)

We offer highly competitive salaries, comprehensive benefits including a unique investment plan and opportunity for future professional and financial growth.

Please submit resume and salary history to Manager, Professional Employment. On the envelope, please indicate the Job # to which you responded.

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Equal Opportunity Employer, M/F

Universiteit van Amsterdam

The University of Amsterdam seeks for the Laboratory of Environmental and Toxicological Chemistry applicants for the position of

professor of environmental chemistry (m/f)*

Vacancynumber S. 2224.

This position requires the candidate to:
• teach courses at both BSc and MSc level and hold seminars in Environmental Chemistry
• conduct, stimulate and coordinate research in Environmental Chemistry; present research topics of the department including the behaviour of chlorinated aromatic compounds in the environment
• participate in the administration and organisation at departmental and (sub)faculty level
• manage grant and research contract acquisition.

The candidate will be expected to have:
• a strong teaching record
• a distinguished research background proven by a PhD thesis and various publications
• considerable organising qualities.

The candidate is expected to have a good command of the Dutch language within two years of the appointment. Gross salary depends on age and experiences and ranges from Dfl. 6,854.- to Dfl. 9,495.- per month (Dutch Civil Servants Code).

Persons interested should send their curriculum vitae, including a list of publications, quoting vacancynumber -within 3 weeks- to the Chairman appointments Committee, Prof. Dr. H. Poppe, vakgroep Analytische Chemie, Nieuwe Achtergracht 166, 1018 WV Amsterdam, the Netherlands.

*Women in particular are invited to apply.
Research Scientists
A Responsive Research Environment

Pioneer new applications in Biotechnology, Pathology and Pharmacology for Cardiovascular & CNS Research.

As a research-driven company, Schering-Plough can offer you the project responsibility, support and recognition to stimulate your best ideas. Joining us in one of these new positions, you'll be part of an expanding group of bold thinkers. At the forefront of some of today's most significant breakthroughs in cardiovascular and CNS research.

Ortho Pharmaceutical

CNS Pharmacology

SR. CNS BIOCHEMIST—You must have comprehensive knowledge of the application of fundamental methods to new drug discovery. Preference will be given to candidates with a background in any of the following: radioreceptor binding assays, HPLC and RIA assays for neurotransmitters and second messengers (cAMP and PI), enzyme kinetic techniques, and central dopaminergic and cholinergic pharmacological systems.

Candidates for all positions must have a Ph.D., or equivalent, and 0–5 years' experience within the area of interest. The ability to communicate and produce results in an interdisciplinary environment is essential.

ASSISTANT/ASSOCIATE PHARMACOLOGISTS (9 positions)—In addition to the above positions, Schering-Plough is accepting resumes for Assistant/Associate Scientists, to complement the Senior positions listed above. For these positions, interviews will not begin until June or July of this year.

We offer a competitive salary and outstanding benefits. Please send detailed resume, indicating position of interest, to: Louis DeMartino, Schering-Research, 60 Orange Street, Bloomfield, NJ 07003. We are an equal opportunity employer.

Schering-Plough
POSTDOCTORAL POSITIONS
National Institutes of Health
Laboratory of Persistent Viral Diseases
Rocky Mountain Laboratories

Positions available to study pathogenesis of viral diseases, with particular emphasis on the infections of the CNS or hemopoietic system. Models currently being studied include rubies, murine, equine, and human retroviruses. Aleutian mink encephalopathy. Approaches include use of molecular biology, genetics, and immunology. Applicants must have at least 3 years professional level relevant postdoctoral research experience and have completed their Ph.D., M.D., D.V.M., or equivalent degree. Beginning salaries range from $20,000 to $23,000. Submit curriculum vitae, bibliography, and names of three potential references to:
Dr. Bruce Chesebro, Chief
Laboratory of Persistent Viral Diseases
Rocky Mountain Laboratories
Hamilton, MT 59840
An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
IN DEVELOPMENTAL BIOLOGY

A position is available to study the biochemistry and cell biology of rodent trophoblast cells. Background in protein chemistry and immunological techniques is desirable. Send curriculum vitae and the names and addresses of three references to:
Dr. Michael S. Soares
Department of Physiology
University of Kansas Medical Center (KUMC)
Kansas City, KS 66103
KUMC is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
IN NEUROBIOLOGY

Available in the Department of Pharmacology, St. Louis University School of Medicine, St. Louis, Missouri. This NIH-funded project will use single electrode voltage-clamp recordings from neurons within intact autonomic ganglia to study the role of neuroactive peptides in avian oculomotor neurotransmission. The applicant must have a strong background in intracellular electrophysiological techniques, and experience with voltage-clamp and current-clamp techniques and curriculum vitae along with names of three references to: Vincent A. Chiappinelli, Ph.D. (on sabbatical leave until September, 1987) at MRC Neurobiology Unit, The University of Cambridge Medical School, Hills Road, Cambridge CB2 2QH, Great Britain. St. Louis University is an Equal Opportunity Employer. M/F/V/E.

POSTDOCTORAL POSITIONS
IN YEST MOLECULAR GENETICS/GENE EXPRESSION, available immediately. Recombinant DNA methods are being used to characterize the DNA binding protein which activates transcription of the maltose fermentation genes in the Saccharomyces yeasts. The work involves mutant isolation, DNA protein binding studies, antibody preparation and DNA sequencing. Experience in molecular genetics is required. Salary range is $18,000 to $20,000 (plus benefits), depending upon experience. Please send curriculum vitae, copies of relevant reprints and names of references to: Dr. Cortine A. Michels, Department of Biology, Queen College of the City University of New York, Flushing, NY 11367.

RESEARCH PROGRAMMER needed to modify, document, develop production codes, and to evaluate algorithm and scientific applications. Initial assignment will be in molecular modeling and dynamics of biopolymers. Experience in this field or in supercomputer use is a plus. Wide scientific interest, good communication skills, and graduate degree required. Submit resumes to: John Andrews, Computer Center m/c 125, University of Illinois at Chicago, Chicago, IL 60680. 4454. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available September 1987 for a BIOCHEMIST, CELL BIOLOGIST, or DEVELOPMENTAL BIOLOGIST to study cellular adhesion and membrane proteins as cellular determinants. The project will include isolation, purification, and structural analysis of glycoproteins contributing to adhesion of cells in sea urchin embryos. Contact: Dr. Merrill B. Hille, Department of Zoology NJ-15, University of Washington, Seattle WA 98195. Telephone: 206-543-5758.

POSTDOCTORAL POSITION available for work on the pathogenesis of neurodegenerative and seizure disorders. Experience with modern biochemical and/or (immuno)histochemical techniques is essential. Background in the neurosciences desirable. Starting date on or after 1 July 1987. Send resume and names of at least three references to: Robert Schwartz, Ph.D., Maryland Psychiatric Research Center, P.O. Box 2144, Baltimore, MD 21228.

POSTDOCTORAL POSITION to study the cellular and molecular biology of the neuronal cytoskeleton, with emphasis on expression of microtubule-associated proteins in brain. Work will involve isolation and analysis of cell lysates, and neuronal cultures. Applicants should have a Ph.D. and background in molecular biology, cellular biology, or tissue culture. Experience M/M in cell biology is useful. The position carries a Harvard Medical School appointment and is for 3 years beginning in April 1987. Send curriculum vitae, current address, and the names of three references to: Dr. Robert J. Klebe, Department of Neurology, Boston Children's Hospital, P.O. Box 200, Waltham, MA 02254.

POSTDOCTORAL POSITION to study the molecular biology of cell adhesion proteins and their receptors. The project will focus on new approaches to understanding morphogenesis. While experience is desirable, we will gladly train an interested individual in recombinant DNA, cell culture techniques, and the use of biochemical and biophysical methods. Send summary of research, curriculum vitae, and references to: Dr. Robert J. Klebe, Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio, TX 78284. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION to study the molecular biology of cell adhesion proteins and their receptors. The project will focus on new approaches to understanding morphogenesis. While experience is desirable, we will gladly train an interested individual in recombinant DNA, cell culture techniques, and the use of biochemical and biophysical methods. Send summary of research, curriculum vitae, and references to: Dr. Robert J. Klebe, Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio, TX 78284. An Affirmative Action/Equal Opportunity Employer.

Environmental Professionals

The Savannah River Plant Offers Two Clear Advantages: Career Challenge And Our Location In Aiken, South Carolina

Operated by DuPont for the United States Department of Energy, the Savannah River Plant produces radioactive isotopes for national defense, medicine, and America's space program. While this outstanding environment broadens your professional horizons, our Aiken, South Carolina location provides access to some of the Southeast's most attractive cultural and recreational resources. Positions are available for:

Air Quality Engineer
MS/Ph.D in Meteorology or Engineering, with emphasis on air quality protection, plus a minimum of 2 years experience. Position requires keeping up-to-date on regulations and new technologies in air quality monitoring to provide for implementing air quality protection plans.

Aquatic Ecologist
MS/Ph.D in Aquatic Ecology/Biology, as well as 3 or more years experience, including NPDES permitting, biomonitoring studies and bioassay testing. Assignments would include developing resource management programs for surface waters and wetlands, and coordinating regulatory compliance activities.

These positions may require physical activity such as climbing ladders and the use of respiratory protective equipment. U.S. CITIZENSHIP REQUIRED. Salary is commensurate with your training and experience. Our highly regarded benefits program includes company-paid health insurance, paid holidays, and retirement assistance. For confidential consideration, please send resume, indicating position of interest, to: K.L. Mays, Employee Relations Department, Room X50654, Du Pont Company, Wilmington, DE 19898.
PAC BIO

Pacific Biotechnology Ltd. is a newly formed Australian joint venture between California Biotechnology Inc. and the Garvan Institute of Medical Research. Pac Bio will be located in Sydney and will primarily be concerned with the development of new human therapeutics for diseases of aging, especially cardiovascular disease, osteoporosis and inflammatory disorders. The company will focus on techniques of modern molecular and structural biology and chemistry.

Applications are invited from scientists at all levels in any of the following research areas to fill a variety of new positions:

- Receptor cloning and biochemistry
- Synthesis of peptide analogues
- X-ray crystallography
- NMR spectroscopy
- Computer modelling
- Organic chemistry

Pac Bio intends to commence operations in mid-1987. Interested candidates should send a resume and names of two references to: California Biotechnology, Inc., Human Resources Department, Attn: MF:ebp, 2450 Bayshore Parkway, Mountain View, CA 94043. We are an equal opportunity employer.
POSTDOCTORAL POSITION available immediately to study initiation of DNA replication in eukaryotic cells. A newly developed technique is being used to identify and characterize consensial replication origins in yeast and Drosophila, and to explore the relationship between replication and transcription in these organisms. Proteins involved in initiation of replication are also being identified and characterized. A competitive salary is offered. Please send curriculum vitae and have three letters of recommendation sent before 1 May 1987, to: Dr. Joel A. Huberman, Department of Molecular and Cellular Biology, Roswell Park Memorial Institute, Buffalo, NY 14263. Telephone: 716-845-3047. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION: Available spring 1987, University of California, San Francisco (UCSF). To study the structure and function of polypeptide hormone receptors. Requires background and interest in protein purification, immunology, and peptide chemistry. Experience with HPLC and hybridoma techniques preferred. Send curriculum vitae and names of three references to: Dr. Carl Grunfeld, Metabolism Section (111F), VA Medical Center, 4150 Clement Street, San Francisco, CA 94121. UCSF is an Equal Opportunity/Affirmative Action Employer; women and minorities are encouraged to apply.

GLYCOPROTEIN/CARBOHYDRATE BIOCHEMIST

POSTDOCTORAL POSITION available for person trained in glycoprotein and/or carbohydrate biochemistry (particularly chromatographic methods for sugars, oligosaccharides, and glycopeptides) to participate in ongoing research concerning the role of protein glycosylation in photoreceptor membrane morphology and retinal degenerations. Send curriculum vitae, recent reprints, and names of three references to: Dr. Steven J. Flesher, Bascom Palmer Eye Institute, University of Miami School of Medicine, P.O. Box 016880, Miami, FL 33101.

POSTDOCTORAL POSITION available immediately to study the molecular biology of novel calcium-binding proteins in African trypanosomes. An interest in cellular regulatory pathways and some experience with recombinant DNA techniques is desirable. Send curriculum vitae to: Dr. Larry Ruben, Department of Biology, Southern Methodist University, Dallas, TX 75275. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION now available for person experienced in recombinant DNA technology or biochemistry. Opportunity to participate in study of transmembrane signal transduction involving phospholipases. Send curriculum vitae and names of three references to: Dr. O. Hayes Griffith, Institute of Molecular Biology, University of Oregon, Eugene, OR 97403. UO is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study the regulation of enzymes which mediate stimulus-response coupling in mammalian cells. Projects include the purification, cloning, and expression of mammalian intracellular phospholipases and studies on the transcription, translation, and intracellular processing of these enzymes. Candidates should be recent Ph.D.'s with experience in molecular biology and/or protein chemistry. Send curriculum vitae and two letters of recommendation to: R. W. Gross, M.D., Ph.D., Box 8020, Washington University, St. Louis, MO 63110.

POSTDOCTORAL POSITION
HEPATIC MEMBRANE TRANSPORT

Postdoctoral position available for NIH-funded project involving characterization and isolation of hepatic membrane proteins mediating bile acid and calcium transport. Applicant must have recent Ph.D. and previous experience in vesicle transport or protein purification techniques. Send curriculum vitae and names of three references to: Bennett L. Blitzer, M.D., Liver Study Unit, University of Cincinnati College of Medicine, 231 Bethesda Avenue (Room 6660), Cincinnati, OH 45267.

POSTDOCTORAL POSITION IN ENDOThelial PATHOPHYSIOLOGY

Available immediately for 2 to 3 years, to study the behavior and responses of endothelial cells from various sources under conditions of tissue culture, as part of ongoing studies on micro- and macro-vascular pathophysiology. Candidates should have a Ph.D. in cell biology or biochemistry, and experience in tissue culture. Please send curriculum vitae and names of three references to: Dr. Guido Manjo, Department of Pathology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01605. The University of Massachusetts is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL—RESEARCH ASSOCIATES

Several positions are available with negotiable starting dates to join an integrated and ongoing research program on growth factors and their mechanism of actions. We are seeking candidates with training in one of the following areas: (i) Pharmacology experience in experimental designs for effector and inhibitor for receptor binding. (ii) Immunology experience in RIA/ELISA and methods to purify monoclonal antibodies. (iii) Peptide and protein chemistry. Please send curriculum vitae and inquiry to: James Tam, Rockefeller University, Box 294, 1230 York Avenue, New York, NY 10021. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE: Positions are now available to join a multidisciplinary group studying the structure and regulation of the genes for the catecholamine neurotransmitter biosynthetic enzymes. Applicants should have a strong background in either recombinant DNA technology or biochemistry/neuropharmacology. Send curriculum vitae, statement of research interest, and the names of three references to: Dr. Barry B. Kaplan, Molecular Neurobiology Program, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine, Pittsburgh, PA 15233.

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OPPORTUNITIES AT BOEHRINGER MANNHEIM

Boehringer Mannheim is a rapidly growing leader in the field of medical diagnostics and biochemicals. This leadership has been attained through emphasis on quality and team effort and it's Boehringer Mannheim's employees that are responsible for growth and leadership. Due to this growth, we are currently seeking qualified individuals for exceptional opportunities in the following areas:

**RESEARCH INVESTIGATOR — TEST DEVELOPMENT**

Will coordinate and conduct research and development of clinical chemistry diagnostic tests in novel formats from initial laboratory experiments through scale-up and evaluation to transfer into production. Requirements include a PhD or equivalent experience in Biochemistry, Chemistry or related area and proven research and development experience in test development preferably in an industrial setting. Effective oral and written communication skills and supervisory skills are also essential.

**RESEARCH INVESTIGATOR — ANALYTICAL**

Responsibilities include developing specifications and analytical procedures for characterization of raw materials and finished products with regard to their composition, reactivity, enzyme activities and stability. Also will coordinate and develop in process quality control procedures. A PhD in Analytical Chemistry, Biochemistry or equivalent and knowledge of a wide variety of analytical instrumentation is required. Effective oral and written communication skills and supervisory skills are also essential. Experience with polymers would be a definite plus.

**RESEARCH INVESTIGATOR — TECHNOLOGY DEVELOPMENT**

Will conduct research in new technologies directed toward test development in novel formats. Will also provide an interface between test development scientists and engineers to develop instruments and equipment to bring new technologies on line. A PhD in Chemistry, Biochemistry, Physics or an MS in Chemical Engineering or equivalent experience is required. Effective oral and written communication skills and supervisory skills are also essential. Experience with film technology is a definite plus.

**RESEARCH INVESTIGATOR — IMMUNOASSAY DEVELOPMENT**

Will coordinate and conduct research and development of immunodiagnostic tests in novel formats from initial laboratory experiments through scale-up and evaluation to transfer into production. Requirements include a PhD or equivalent experience in Biochemistry, Chemistry or related area and proven research and development experience in test development, preferably in an industrial setting. Effective oral and written communication skills and supervisory skills are also essential.

**SCIENTISTS**

These positions will support the above personnel with requirements including B.S. or M.S. in Biology, Chemistry, Biochemistry, Immunology or Analytical Chemistry and at least one year of applicable R&D experience.

At Boehringer Mannheim we offer an exciting and challenging work environment as well as an excellent compensation and benefit program including a 401K. If you meet the above requirements and would like to join an organization that is a leader in its field, we invite you to send your resume with salary history to:

**HUMAN RESOURCES**

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**BASIC AND APPLIED BIOMEDICAL SCIENTISTS AND TECHNICIANS**

The BioNetics Research, Inc. Internal Research and Development Program is expanding its biotechnology initiatives related to diagnostic products and cancer vaccines. We seek individuals at the Ph.D. and MS levels with established credentials to support these on-going projects. Experience applicable to one or several of the following areas is required:

**Monoclonal Antibody**—generation against tumor antigens using hybridoma fusion techniques.

**Cancer Biology/Immunology**—related to the immunopharmacology of lymphokines.

**Immunohistochemical Fluorescence**—methodology to evaluate monoclonal antibody tissue reactivity using Radiobinding or ELISA methods.

**Molecular Biology**—research in genetics of gene expression in E.coli/Eukaryote gene cloning. Development and application of expression vectors, construction and analysis of cDNA and genomic libraries and DNA cloning and chemistry.

**Biochemistry**—protein sequencing, amino acid analysis, protein purification and characterization.

**Diagnostic Immunology**—using monoclonal antibodies for bacterial and viral pathogens and cancer antigens.

**Monoclonal Antibody**—production and purification in large scale, using ascites production as well as in vitro methods.

**Radiolabeling Chemistry**—using 125I to label proteins and small molecules (cAMP), and to design RIA procedures.

These are attractive opportunities for scientists and techniciians interested in basic research, biotechnology, and technology transfer.

Comprehensive compensation package includes paid medical/life/dental insurance premiums for employee, and 401(K) savings plan with company matching funds.

Please send Curriculum Vitae, including salary requirements in confidence to:

**Human Resource Department—Science**

BIONETICS RESEARCH, INC.

1330-A Piccard Drive

Rockville, Maryland 20850

BRI is an Equal Opportunity Employer.

All applicants welcomed.

**BIONETICS RESEARCH, INC.**
POSTDOCTORAL POSITION OPEN

POSTDOCTORAL POSITION IN IMMUNOBIOLOGY OF CANCER. Ribl ImmunoChem Research, Inc., Hamilton, Montana, has immediately available a postdoctoral position to perform basic and fundamental studies regarding immunobiology of cancer. Applicants with previous experience in cancer studies, tumor-associated antigens, therapy of tumors in experimental animals, immunosassays and analysis of immune response data, and who have received a Ph.D. or M.D. degree, are encouraged to apply. Salary: $35,000. Send curriculum vitae and a statement of research experience to: Dr. J. Prevette, Ribl ImmunoChem Research, Inc., P.O. Box 1409, Hamilton, Montana, 59840, telephone 406-363-6214, An Equal Opportunity Employer.

POSTDOCTORAL POSITION

TUMOR VIROLOGY

Available immediately, we have recently discovered RNA covalently bound to SV40 Tag and to the oncoprotein E6. We are seeking an individual with a background in molecular virology for this position. Individuals interested in performing studies on the role of E6 in the establishment of immortalization in primary cells will be encouraged to apply. Position, salary, and benefits are competitive. Send curriculum vitae and names of three references to: Dr. Robert Carroll Department of Pathology New York University School of Medicine 550 First Avenue New York, New York 10016

POSTDOCTORAL/RESEARCH ASSOCIATE

to work on the immunogenetics of the acute leukemias in rapidly expanding medical Center. Project involves some knowledge of T cell and Raji cell assays, agarose block electrophoresis, SDS-polyacrylamide gel electrophoresis, and electronmicroscopy (Western blot). Experience with monoclonal antibodies, hematology, and collaborating with molecular biologist and hematologist. Send curriculum vitae, and three references to: Dr. Harold Schumacher Department of Pathology, 2160 South First Street, Loyola University Medical Center, Maywood, IL 60153. Loyola University is an Equal Opportunity Employer.

LABORATORY/HEMATOLOGY FELLOWSHIP

Loyola University Medical Center of Chicago is establishing a new program in laboratory hematology for pathologists Board-certified in AP and CP. Internists and pediatricians with comparable Board interests in more in-depth training in hematology will be considered. The program will be directed toward a specialty Board certification with training in coagulation, peripheral blood analysis, and bone marrow pathology during the 3rd and 4th years. Fellowship will be devoted primarily to research. Interested candidates should send a curriculum vitae and a statement of research goals to: Dr. M. Eladi Professor and Chairman, Department of Pharmacology, University of Nebraska College of Medicine, 42 Street and Dewey Avenue, Omaha, Nebraska 68105. An Equal Opportunity Employer/ Affirmative Action Employer.

POSTDOCTORAL/SENIOR RESEARCH ASSOCIATE

to study primary lymphoproliferation in the nervous system. Studies will utilize a multidisciplinary approach to examine cellular and molecular mechanisms responsible for paralysis and wasting produced by fast axonal transport. Candidates should have a strong background in protein chemistry and/or molecular biology. This opportunity offers potential advancement into a permanent independent staff position. Send curriculum vitae and names of three references to: Dr. George Stone, Division of Molecular Biology, Nathan Kline Institute for Psychiatric Research, Orangeburg, New York 10962. Equal Opportunity Employer/M/F.

POSTDOCTORAL POSITION OPEN

POSTDOCTORAL RESEARCH POSITION available in the laboratory of an NIH-trained investigator to work on cell biology, cell signaling, and leukemia metabolism. Experience in cellular and biochemical techniques, protein chemistry, monoclonal antibodies, and gene cloning will be of importance. Salary $35,000. Send curriculum vitae and names of three references to: Dr. Chaim Brickman, Center for Cell Biology, Sinai Hospital of Detroit, 48235-2899.

RECEPTORS AND G-PROTEINS

An opportunity for POSTDOCTORAL TRAINING will become available July 1987 in a group investigating the cell biology, biochemistry, and molecular biology of cell-surface receptors and the G-proteins to which they are linked. Ph.D. or M.D. required, experience germane to these pursuits highly desirable. Send curriculum vitae and names of three references to: Dr. C. C. Maibon, Department of Pharmacology, Health Science Center, SUNY/Stony Brook, Stony Brook, Long Island, NY 11794-8651.

RESEARCH ASSISTANT: Sloan-Kettering Institute.

We seek a qualified individual for a biomedical technical support position to participate in projects which focus on the development of cancer therapies utilizing multidisciplinary approach. Extensive hands-on experience in molecular biology is essential; a thorough working knowledge of basic molecular biology, B.S./B.A., plus 3 years of relevant bench research experience required. We offer an excellent compensation package, a state-of-the-art working environment, and opportunities for career development. Please send resume to: E. L. Kleinert, Personnel Department #060, Memorial Sloan-Kettering Cancer Center, 1275 York Street, New York, New York 10021. An Equal Opportunity Employer, M/F/HIV.

RESEARCH ASSOCIATE

Employer seeks person with Ph.D. in electrical engineering and 2 years of experience to direct advanced research on fast-structured algorithms for statistical signal processing. Experience and knowledge of the theory of non-stationary lattice-filter models and their role in linear estimation, filter synthesis, inverse scattering, adaptive filtering, and computer simulations essential. A working knowledge of the theory of matrix theory, and systolic array implementation. Salary $52,000 per annum. Job site: Stanford. Send this ad and a résumé: Job number CW1278, P.O. Box 9560, Sacramento, CA 95823-0560 not later than 13 April 1987.

RESEARCH ASSOCIATE available for a Ph.D. in the cellular regulation of transport processes in airway epithelial cells. Candidate should have experience in both quantitative fluorescence microscopy and electrophysiology and should be willing to master both techniques. Inquiries are invited from individuals holding a Ph.D. in Cellular and Molecular Biology. Address all correspondence to: Dr. M. R. D'Amato, Department of Biology, University of North Carolina, Chapel Hill, NC. Telephone 919-966-2531. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE position available immediately to study the regulation and enzymology of sphingolipid synthesis. Ph.D. in biochemistry with 3 years of postdoctoral experience in sphingolipid analysis required. Some experience in microbiology preferred. Salary: $22,000 per year, 40 hours per week. Apply to: Dr. M. Lev, Associate Dean for Basic Sciences, City University of New York, Medical School, 138 Convent Avenue, New York, New York 10031. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW

Research associate/postdoctoral position available immediately to join multidisciplinary group engaged in insulin growth factor action. Project involves purification and characterization of growth factor-stimulated P1yr protein tyrosine protein kinase. Experience with protein purification and with protein peptide purification required. Protein microsequencing, oligonucleotide and protein/cell interactions are also part of the program. Send curriculum vitae and three letters of reference to: J. Arruv, Chief, Diabetes Unit, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02114 or telephone: 617-726-6099.

POSITIONS OPEN

The University of Adelaide South Australia invites applications from both women and men for a RESEARCH ASSOCIATESHIP available immediately for up to 2 years in the DEPARTMENT OF BIOCHEMISTRY, at the Waite Agricultural Research Institute. Applications are invited from candidates wishing to work on a project funded by a grant under the Australian Research Grants Scheme to analyze the molecular structure of a plant chromosome. The project will focus on chromomere 1 of rice using wheat/rye addition lines. The work involves the use of recombinant DNA techniques and other DNA analysis procedures in conjunction with cytology and cell culture methods. Applicants should hold a Ph.D. degree and have experience in molecular biology or genetics.

Further information may be obtained from: Dr. P. Langridge, Department of Agricultural Biochemistry, (08) 372-2368. Annual salary: A$24,013 x 5 to A$27,507.

Applications in duplicate, quoting reference number 4697, giving personal particulars (including whether candidates hold Australian permanent residency status), name and addresses of three referees should reach: The Registrar, University of Adelaide, GPO Box 498, Adelaide, South Australia, 5001, Telex UNIV AD 89141 not later than 20 April 1987. The University is an Equal Opportunity Employer.

RESEARCH PSYCHOLOGIST

SUNNYBROOK MEDICAL CENTRE

TORONTO, CANADA

Sunnybrook Medical Centre is an 1180-bed University of Toronto teaching hospital with major programs in Trauma, Oncology, Diseases of the Aging, and Mental Health. The Medical Center is located on 160 acres of parkland in the heart of Metropolitan Toronto.

Sunnybrook seeks an academic psychologist with primary responsibility for the creation and implementation of research within the Department of Psychiatry. It is expected that the candidate selected will receive a cross appointment to the University of Toronto.

Apply to: Dennis J. Egan Chairman, Search Committee Sunnybrook Medical Centre 2075 Bayview Avenue Room C-1430 Toronto, Ontario M4N 3M5

AMERICAN BIOGENETICS

RESEARCH SCIENTIST

American BioGenetics Corporation, specializing in the genetic manipulation of microorganisms which produce specialty chemicals, has a position available for a highly motivated MICROBIAL YEAST GENETICIST/PHYSIOLOGIST. The successful applicant will have a Ph.D. and have at least 2 years of postdoctoral training.

American BioGenetics Corporation offers a challenging and creative working environment, and excellent opportunities for personal and scientific development, and is located in a desirable coastal area of southern California.


RESEARCH SCIENTISTS

BIOGROWTH, INC.

BioGrowth, a new biotechnology company, has openings for the following scientists:

MOLECULAR BIOLOGISTS, Ph.D., with 2 years of additional experience in developing mammalian expression systems including retroviral and dhfr-amplifiable systems to make recombinant proteins.

MOLECULAR BIOLOGIST, B.S./M.S., with 2 additional years of lab experience including cDNA library construction, mRNA preparation/translation, DNA/RNA sequence analysis, and expression of recombinant proteins. The position is a multi-disciplinary one involving research at BioGrowth, located in new facilities in the San Francisco Bay area, offers competitive salaries, benefits, and the opportunity to make a major contribution at a newly developing company. Please send your résumé, salary history, and list of three references to: BioGrowth, Inc., 117THE MALL, ASICS Street, Suite 117, Richmond, CA 94806.
Genentech, Inc., a leader in the field of Biotechnology, seeks highly motivated Scientists with demonstrated records of accomplishment for the following positions:

**Process Research & Development**

Working in tandem with an expert team of biochemists and biochemical engineers, you’ll help develop and scale up methods for the purification/characterization of recombinant proteins and peptides to be used in human pharmaceuticals and animal health care products. Specific focus areas will include recovery processes and rapid protein isolation/characterization, therefore knowledge of HPLC, FPLC, affinity and other protein purification/analysis techniques is essential. Strong interest in immunochemistry, and the ability to think creatively are also required assets.

Successful candidate will have a PhD in Biochemistry/Biochemical Engineering and at least 2 years relevant postdoctoral experience in academia or industry. (#JG-2033)

**Biological Chemistry**

Your responsibility will be to investigate basic mechanisms of action of relaxin and other proteins at the molecular and cellular level, as well as develop cell-based assays which reflect these bioactivities. Cell biology and biochemistry background with experience in cell culture and receptor binding techniques required. Background experience with immunoassay development and protein receptor purification highly desirable.

Successful candidate will have PhD in Cell Biology or related field and at least 2 years related experience in academia or industry. (#JG-2006)

**Medicinal & Analytical Chemistry**

Position will supervise the testing and release of new products for clinical trials. The candidate we seek will have creative abilities in protein/peptide characterization, and the expertise to establish and implement final product specs. This position also involves writing scientific reports in support of IND submissions, so excellent communications skills are essential.

Successful candidate will have a PhD in Biochemistry or related field and at least 2 years related experience in academia or industry. Pharmaceutical experience highly desirable. (#JG-1551)

**Postdoctoral Fellow Biochemical Endocrinology**

A Postdoctoral Fellow in Biochemical Endocrinology is sought to participate in several projects including the elucidation of growth hormone, relaxin and inhibin mechanisms of action. A background in physiology or second messenger biochemistry would be helpful. (#1920SW)

Genentech, Inc. offers and excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. Please send resume, indicating position title and number, to Human Resources Department, Genentech, Inc., 460 Point San Bruno Boulevard, South San Francisco, CA 94080. An equal opportunity employer.
RESEARCH INORGANIC RADIOCHEMIST
Ph.D. and/or equivalent experience in inorganic chemistry of actinide and fission products is desirable. Experience in separation and determination of actinides. Strong background and experience in classical inorganic research (not analytical chemistry) and in appropriate radiochemistry. Experience with fission product separation and counting techniques is desirable. Salary: $32,000 to $38,000. Only U.S. citizens apply. Send letter and CV to: Dr. Joyce Gilbert, U.S. Geological Survey, MS 203, Box 25046, Lakewood, CO 80225. The Federal Government is an Equal Opportunity Employer.

RESEARCH SCIENTIST: Design and construction of specialized and complex electronic and optical instruments for use in basic research on photosynthesis and in biological and environmental research, including the interface of the instruments to existing instruments, and associated software development. Forty hours, 8:30 a.m. to 5:00 p.m. $2915.67/per month. Doctorate. Major field of study—biophysics, 2 years of experience in fluorescence theory and detection and instrumentation techniques. Job Order No.: 0603301, D.C. Code: 025061014. Resumes due to: NYS Job Service, 55 Medford Avenue, Patchogue, NY 11772. Equal Opportunity Employer M/F.

SENIOR RESEARCH SCIENTIST, GLYCOPROTEIN BIOCHEMIST: full-time research position available for scientists (Ph.D. or M.D.) with expertise in the biochemical characterization of matrices with emphasis on basement membranes. Experience in cell biology techniques would be valuable. The successful candidate will join a research group with interests in renal metabolism and biochemical alterations in diabetes. Applicants must have a publication track record, a mentorship ability, and are capable of independent research. Salary ($50,000 per year) is assured for a 2- to 3-year period and will be commensurate with credentials. Please send curriculum vitae, publications list, past and present grant support information, and other supportive material to: Dr. David Shepherd, Division of Nephrology and Hypertension, Clara Ford Pavilion 5, Henry Ford Hospital 9919 West Grand Boulevard, Detroit, MI 48202. Telephone: 313-876-2709.

STAFF RADIATION THERAPIST
The University of Michigan Medical School, Department of Radiation Oncology, has an opening for a clinical radiation therapist to work in a community hospital in southeastern Michigan. This individual will be responsible for consulting with and evaluating patients, prescribing treatment, and supervising the administration of that treatment. This will be a non-tenured position, rank will depend on qualifications and experience. Interested persons should send curriculum vitae to: Allen S. Lichter, M.D., Chairman, University of Michigan Medical Center, Department of Radiation Oncology, 1500 East Medical Center Drive, U4294/0010, Ann Arbor, MI 48109-0010. The University of Michigan is an Equal Opportunity/Affirmative Action Employer. PCN 15.

T-CELL CULTURIST/IMMUNOLOGIST LAB SUPERVISOR
Massachusetts General Hospital, Boston—Seeks a senior level technologist who has extensive experience in T-cell culture as well as immunology. You will be responsible for coordinating all technical activities of the laboratory. Requirements: 3 to 5 years of direct immunology research, plus M.S. in biology, biochemistry, or biotechnology.

Call, or send resume to: Harold Gregory Employment Service Office Massachusetts General Hospital 15 Fruit Street Boston, Massachusetts 02114 Telephone: 617-726-2206 We are an Equal Opportunity/Affirmative Action Employer.

BIOLGY TENURE-TRACK POSITION, SEP. 1987: Teach general biology, microbiology, botany, and genetics. Appreciation of the Liberal Arts philosophy is important. Interest in interdisciplinary activities and faculty concern with student welfare is expected. Ph.D. preferred. Send curriculum vitae and three letters of reference by 20 April 1987 to: Dr. L. N. Steuffer, Biological Department, Drury College, Springfield, MO 65801.

THE REGISTRY OF AIDS PATHOLOGY, American Registry of Pathology, an Equal Opportunity Employer, invites immediate applications from RESEARCH SCIENTISTS AND TECHNICIANS for virology and molecular biology sections. Candidates for scientist position must have a Ph. D. in virology and/or experience in appropriate research area. Preference will be given to applicants with experience in cell and virus culture, immunoassays, particle isolation and separation, and molecular cloning. Depending on previous experience, annual salary to $34,000 for scientists and $23,000 for technicians plus fringe benefits. Submit resume by 15 April 1987 to Box 34, SCIENCE.

CONFERENCES
INTERNATIONAL CONFERENCE ON REPRODUCTION AND HUMAN CANCER 11 to 13 May 1987
The National Cancer Institute and the National Institute of Child Health and Human Development are sponsoring an International Conference on Reproduction and Human Cancer in Bethesda, Maryland, 11 to 13 May 1987, to focus on the effects of cancer and treatment on reproduction, including possible genetic effects. The purpose of the conference is to draw together knowledge and expertise of researchers from multiple disciplines, such as medical, pediatric, and radiation oncology; obstetrics and gynecology, endocrinology, epidemiology, pharmacology, cell biology, and teratology, and reproductive, mutation, and radiation biology. CME credits apply. For additional information telephone: Ms. Mary E. Clark at 301-589-6760.

RADIONUCLIDES IN THE FOOD CHAIN
A radionuclide entitled "Radionuclides in the Food Chain" will be held 1 to 5 November 1987 at the Luxembourg Conference Center, and Research, Luxembourg. The program will be sponsored by the International Life Sciences Institute (ILSI) in association with the International Institute of Applied Systems Analysis. Further information, registration materials, contact: Lilli C. Merritt, ILSI, 1126 16th Street, NW, Washington, DC 20036; telephone: 202-659-0074.

COURSES
SOCIETY FOR NEUROSCIENCE SHORT COURSE: COMPUTATIONAL NEUROSCIENCE Spring 1987
AT THE UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CA
This course is intended for graduate students and more advanced neuroscientists who understand the relevance of computational neuroscience to their research, and to learn the techniques of computational neuroscience. Topics and faculty: Single neuron structure and function; C. Koch (Cal Tech), J. Moore (Duke), J. Rosenberg (Glasgow); Perception; M. Arbib (USC), E. Schwartz (NYU), T. Sejnowski (Johns Hopkins); Motor control; T. Arai (MIT), D. Hartline (Harvard), D. Robinson (Johns Hopkins). Enrollment limited to 40; registration for $100. Low-cost accommodation is available on the USC campus; information will be provided to registrants. For information and application form: Society for Neuroscience, 11 Dupont Circle, NW, Washington, DC 20036.

PROGRAM
CAREER CHANGE OPPORTUNITY
This unique program offers the candidate with a doctorate a level degree in science the opportunity to earn the doctor of optometry (O.D.) degree in 2 years. Employment opportunities exist in private practice, in the academic setting, and with the VA. Dr. D. M. Chauncey, Ph.D.-O.D. Program Director, New England College of Optometry, 424 Beacon Street, Boston, MA 02115; telephone: 617-266-2030, extension 147.

ANNOUNCEMENTS
ANNOUNCEMENT
TEACHING POSITIONS at Jordan University of Science and Technology, Irbid, Jordan. The Faculty of Pharmaceutical and Allied Health Sciences invites applications for posts of professor, associate professor, and assistant professor in the specialties of: environmental health, epidemiology, toxicology, diagnostic endocrinology, instrumental analyses, and health administration. Candidates must hold a Ph.D. degree or equivalent and have experience in teaching and research. Applicants should write, enclosing résumé not later than 17 April 1987 to: Employee's Affairs Department, Jordan University of Science and Technology, Irbid, Jordan.

FELLOWSHIPS
POSTDOCTORAL FELLOWS (M.D. or Ph.D.) for advanced training involving basic and clinical research of relevance to biological psychiatric problems within the National Institutes of Health. The fellowships are available to individuals who have completed the requirements for the degree of doctor of medicine or doctor of philosophy and who have had previous basic or clinical research experience. A stipend of $25,000 per year (plus health insurance) and an annual travel allowance of $1,000 are provided. Inquiries may be made to: Dr. Richard D. Weiden, National Institute of Mental Health, 201 L Street, N.W., Washington, D.C. 20201.

POSTDOCTORAL FELLOWSHIPS FOR RESEARCH ON NEUROPLASTICITY AND REGENERATION
Positions are available after July, 1987 for interdisciplinary studies in neuroplasticity and regeneration. The program is sponsored by the Departments of Neuroscience, Neurology, and Neurosurgery at the University of Virginia School of Medicine. Current research interests of the participating faculty focus on the neural mechanisms of repair in CNS injury and disease and neuromuscular disorders. Participation faculty include: J. Bennett, E. Lothman, L. Heimer, J. A. Jane, H. Lech, J. Kin, W. Lenz, W. B. Levy, G. Stockard, and G. F. Wooten. Applicants should hold either the Ph.D. or M.D. degree, and be committed to a career involving research. We are particularly interested in clinically trained individuals with a commitment to basic research. Address inquiries to: Oswald Steward, Ph.D., Neuroplasticity and Regeneration Training Program Department of Neurology and Neurobiological Science, University of Virginia School of Medicine, Charlottesville, VA 22908.

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

LUPUS RESEARCH SCHOLAR AWARD PROGRAM
Terri Gottельf Lupus Research Institute invites applications and nominations for five scholarships available each July 1988. The purpose of this program is to support research training at the postdoctoral level in various aspects of clinical and experimental lupus erythematosus research. Candidates with a Ph.D. or M.D. degree, having U.S. citizenship or residence, are eligible to apply. A candidate must be nominated by a scientist in whose laboratory the proposed research will be carried out. The award is for a period of 3 years, in the amount of $90,000. The deadline for filing is 15 August 1987. Information and specific application requirements are available upon written request only from: Terri Gottельf Lupus Research Institute 50 Washington Street South Norwalk, CT 06854

PHARMACOLOGY AND TOXICOLOGY FELLOWSHIPS: Fellowships are available leading to the Ph.D. degree. Stipends range from $7,000 to $10,000 plus full health insurance and a wide variety of research projects. For further information contact: Dr. Leonard Waite, Department of Pharmacology and Toxicology, University of Louisville, Louisville, KY 40292.
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