

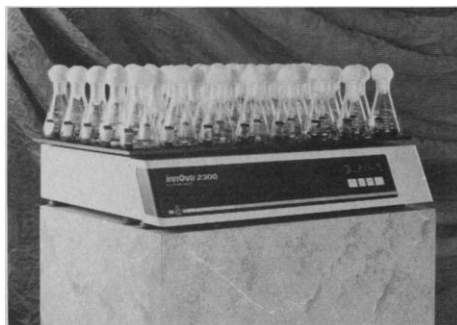
Products & Materials

Photographic Documentation System

The Foto/Prep I DNA Photographic Documentation System offers versatile DNA gel illumination and provides high-quality hard-copy images in an instant. The system is made up of a Foto/Prep I ultraviolet transilluminator and an MP-4 photographic system. The transilluminator can be used at maximum intensity for analytical gels and at lower, sample-saving intensity for preparative gels. Both operation modes are 300 nm, the optimal wavelength for fluorescing ethidium bromide-stained gels. The photographic system offers optional film types and formats and variable focus and magnification settings for complete control over exposure. FOTODYNE. Circle 546.

Benchtop Shaker

The Innova 2300 is a large-capacity shaker with microcomputer controls, push-button setting points, and alarms for reliable performance. It has a wide speed range from 25 to 500 rpm, which enhances oxygen transfer and improves product yields. A



built-in automatic acceleration circuit prevents sudden starts and splashing. The patented triple-eccentric ball-bearing drive mechanism produces smooth, stable operation. The sealed ball bearings are permanently lubricated for a lifetime of service. New Brunswick Scientific Co. Circle 549.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

Technical Word List for Spelling Checkers

Techwords is a comprehensive list of technical words that can be merged with the spelling checker option of most popular word-processing programs, including WordPerfect and Microsoft Word. The words were drawn from many engineering and scientific disciplines, including aeronautical, chemical, civil, electrical, industrial, and mechanical engineering; computer science; life science; mathematics; physics; space and planetary sciences; and earth science. The user has the option of integrating only the categories needed. GEOCOMP Corp. Circle 552.

Biohazard Incinerator Carton

The Scienceware Biohazard Incinerator Carton is designed to be burned along with its contents, thereby eliminating the need to transfer hazardous material in plastic bags from workstation to incinerator. The corrugated cardboard receptacle is lined with a biohazard bag to prevent leakage. The snug lid has a flap through which waste material is inserted. Bel-Art Products. Circle 553.

Curve-Plotting Software

Techni-Curve Quant is an enhanced version of the Techni-Curve graph-plotting and curve-fitting software that offers area measurement and calibration curve functions. Existing Techni-Curve features such as plotting of multiple data sets, data import from Lotus 1-2-3, curve-fitting with regression and interpolation routines, and data transform routines are all included. In addition, the new version allows calibration curves to be generated and unknown values to be read off automatically and includes a graphics routine for assigning a baseline and measuring the area under any part of the curve. InterCon. Circle 558.

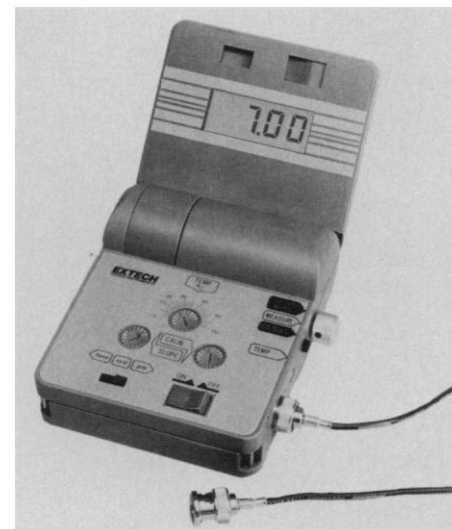
Nonrodent Monoclonal Antibodies

Cymbus Bioscience offers monoclonal antibodies generated from species other than rodents, including sheep, cattle, and primates. In Heterohybridoma Monoclonal Antibody (HHMAb) Technology, lymphocytes collected from immunized animals can be fused with heteromyeloma cell lines to generate stable hybrid clones secreting non-murine MABs. These MABs may be advan-

tageous because rodents' MABs often lack effector functions, such as complement fixation, and their affinity is generally lower than that of polyclonal antisera from other species. Cymbus Bioscience. Circle 561.

pH/mV Calibrator and Meter

The dual-function Oyster Series pH/mV Meter and Calibrator measures pH, millivolts, and temperature and has a simulator function for calibration and troubleshooting of other pH meters, controllers, transmit-



ters, and records. Both measurement input and calibration output are displayed on a large liquid crystal display built into the inside cover of the case. EXTECH Instruments Corp. Circle 547.

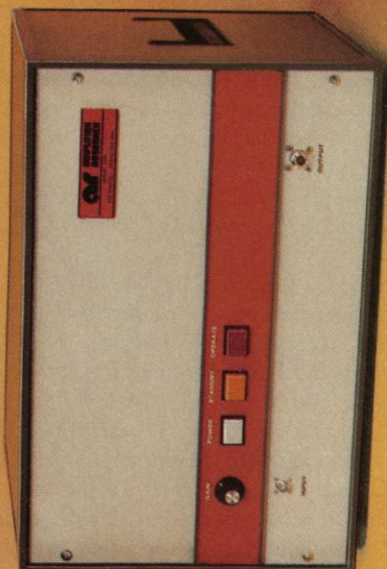
Literature

Labsphere is the company's 1990 product catalog and technical reference guide. The 112-page catalog describes the company's line of reflectance materials, reflectance standards and targets, laser cavity assemblies, integrating spheres, uniform light sources, photometers, radiometers, and reflectance spectroscopy accessories. Labsphere. Circle 433.

BioMerge Biocompatible Solvent Mixer is a color specification sheet on a product designed to be an efficient aid to high-performance liquid chromatography solvent mixing. The Anspec Co. Circle 440.

Oxford Labware 1990 Industrial Catalog is a 32-page offering of more than 400 products including a full assortment of pipettes, pipette tips, accessories, adjustable dispensers, and plastic disposables for liquid handling. Oxford Labware. Circle 441.

Steal 150 watts of rf power.



At a price you'd gladly pay for only 100 watts, the new Model 150L delivers a *minimum* of 150 very clean and reliable watts through a bandwidth of 10 kHz to 220 MHz.

And that bandwidth is instantly available without need for tuning or bandswitching—important when you're sweeping for rfi susceptibility,

in wattmeter calibration, antenna testing, or countless other rf tasks.

Latest FET technology has enhanced the linearity and phase response of the lower-power stages, and the final output stage contains an advanced vacuum-tube amplifier. There's total immunity to load mismatch from sky-high VSWR—even

shorted or open output terminals—assuring freedom from burnout, fold-back, or oscillation.

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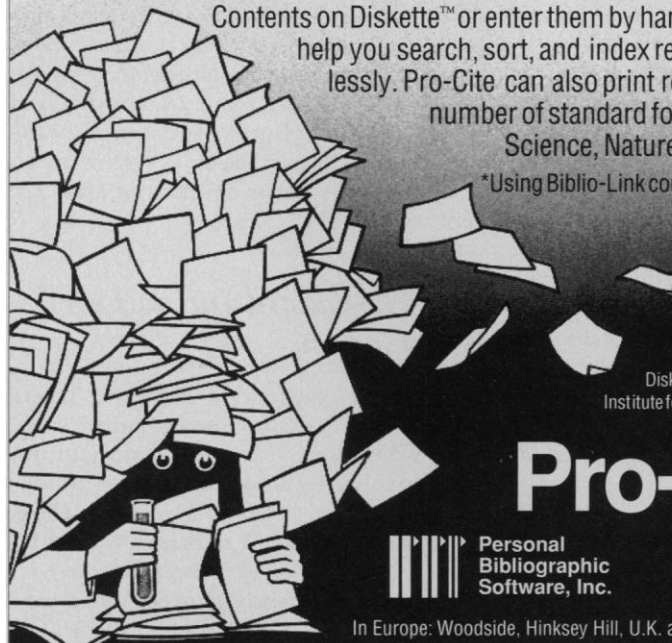
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POSTER YOUR WALLS WITH SCIENCE

SCIENCE cover posters are once again available. These beautiful, full-color reproductions are suitable for framing, and the sturdy mailing tube keeps them crease-free during shipment. Only \$7.95, U.S. postage paid.

MARK quantity in box.

- ☐ #01 **LOCOMOTIVE IN CHINA**
9 February 1979 (18 x 24)
- ☐ #02 **LIGHTNING OVER ST. LOUIS**
27 July 1979 (20 x 28)
- ☐ #03 **CHEETAH AND CUB**
29 July 1983 (20 x 28)
- ☐ #04 **SNOWSHOE HARE**
2 December 1983 (20 x 28)
- ☐ #05 **CATHEDRAL WINDOW/DNA MOLECULE**
23 December 1983 (20 x 28)
- ☐ #06 **NEURONS IN MOTOR CORTEX**
26 September 1986 (18 x 24)

- ☐ #07 **BYRD GLACIER, ANTARCTICA**
28 November 1986 (18 x 24)
- ☐ #08 **COMBINATION OF SPACE COVERS IN SCROLL FORMAT**
1 June 1979, 23 November 1979, 10 April 1981 (12 x 37)
- ☐ #09 **MOONS OF URANUS**
9 September 1988 (18 x 24)
- ☐ #10 **CATERPILLAR/YOU ARE WHAT YOU EAT**
3 February 1989 (18 x 24)
- ☐ #11 **ATMOSPHERIC LAYERING ON EARTH'S EDGE**
10 February 1989 (18 x 24)

\$ Total number ordered @ \$7.95

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Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year, and is mailed on issue date. Personnel 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. **SCIENCE** reserves the right, in its discretion, to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISEMENTS

DEADLINE: Thursday, 10 a.m., 2 weeks prior to issue date. Advertising is accepted only in writing.

POLICIES: All classified ads will be edited and typeset according to **SCIENCE** style guidelines. NO ABBREVIATIONS. Any deadline for applications stated in ad must be at least 2 weeks after date of issue in which ad appears.

CLASSIFICATION: **SCIENCE** publishes line classified ads under the following headings: **Positions Open, Employment Agencies, Fellowships, Situations Wanted, Courses and Training, Meetings, Announcements, and Marketplace.** Advertisers should specify classification desired; however, **SCIENCE** reserves the right to decline classification requests which it believes may be misleading to readers.

RATE: \$41 per line, \$410 minimum, per week. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces per line. No charge for use of blind box number. No agency commission for ads less than 40 lines. To ESTIMATE ad cost, structure ad copy on a 52-character line; include any desired heading on 32-character lines. Each line of heading, one line of white space between heading and body of ad, and all partial lines (including centered reply information, if desired) are counted as full lines. Multiply total number of lines x \$41 = approximate cost of ad, per week. (This is an approximate cost ONLY. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment. **SCIENCE** cannot provide proofs of typeset ads.)

PREPAYMENT DISCOUNT: A 3% cash discount is granted to all prepaid line ads. Prepayment in U.S. dollars by checks drawn on U.S. banks is required for all foreign ads.

BOXES AND LOGOS: Any 1-column line classified ad can be boxed and/or published with logo. No extra production charge for use of box or logo. For boxed ads, one line equals 48 characters and spaces; two additional lines will be added to cost of ad to allow for top and bottom rules. Logos are billed according to number of lines needed to accommodate logo.

SITUATIONS WANTED ADS: As a service to AAAS members in good standing, **SCIENCE** offers free placement of Situations Wanted ads for individuals seeking full-time or part-time employment. A blind box may be used. Ads must be submitted in writing with text of 20 words or less, not including address or box number, and are limited to two insertions per member in each calendar year. Please enclose **SCIENCE** mailing label including AAAS membership number when submitting ad.

CANCELLATIONS: Deadline for cancellations is 10 a.m. Tuesday, 10 days prior to issue date.

Address ad copy or requests for information to:

SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6555
FAX: 202-682-0816

MARKETPLACE AND DISPLAY PERSONNEL ADVERTISEMENTS

For rates, deadlines, and information about fractional display ads (1/6 page and larger) and all **Marketplace** listings of available products and services, contact:

Scherago Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-730-1050
FAX: 212-382-3725

RESPONSES TO EMPLOYMENT ADS

Applicants should read Positions Open ads carefully in order to submit all required material when responding, and should especially check for any stated deadline for receipt of applications. **SCIENCE** encourages applicants for positions to investigate employment laws, non-discrimination policies, visa requirements, and cultural differences in the country advertising for employees.

To reply to a blind box ad, address correspondence to:

Box (give number)
SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005

POSITIONS OPEN

ANATOMIST: TENURE-TRACK POSITION ASSISTANT PROFESSOR LEVEL

Ph.D., M.D., or equivalent doctoral training with at least 2 years of postdoctoral experience in research teaching. Appointees should have independent research interests and will be expected to qualify for research support from extra-departmental sources. Salary is from a university-based departmental budget and is dependent on qualifications and experience. Applicants should be qualified to assist in the teaching of any of the branches of anatomy to medical and dental students. An involvement in graduate teaching is also expected in the appointee's field of academic interest. Starting date: 1 January 1991 or 1 July 1991. Apply before 30 September 1990 to the following: **Dr. Charles E. Slonecker, Department of Anatomy, 2177 Westbrook Mall, The University of British Columbia, Vancouver, B.C., Canada V6T 1W5.** Applications should be accompanied by a curriculum vitae and the names of three academic referees. *In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of British Columbia is committed to the federal government's Employment Equity program and encourages applications from all qualified individuals.*

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

ASSISTANT PROFESSOR. Nutritional sciences. Tenure-track, 9-month, teaching/research position. Teach applied and community nutrition, develop and maintain a fundable research program, and advise graduate and undergraduate students. A Ph.D. in nutrition or closely related area, experience in teaching, evidence of research productivity, potential for extramural support are required. Registered dietitian status preferred. Send by 30 October 1990, a letter of application including a description of teaching experience and a detailed summary of research interests, curriculum vitae including all publications, and names, addresses, and phone numbers of three referees to: **Dr. Jane K. Ross, Chair of Search Committee, Department of Nutritional Sciences, 303 Terrill Hall, University of Vermont, Burlington, VT 05405.** *Women and minority candidates are encouraged to apply. The University of Vermont is an Affirmative Action/Equal Opportunity Employer.*

Watershed extension specialist. Department of Geography, Utah State University (USU), invites applications for a tenure-track position as an extension specialist and **ASSISTANT PROFESSOR** in watershed science. The successful candidate will also be a member of the inter-departmental Watershed Science Unit in the College of Natural Resources. We are interested in candidates with expertise in surface water quality and riparian area management and have broad backgrounds in natural resources management. The successful applicant will be expected to provide technical assistance to county and state extension specialists, federal agency personnel, watershed user groups, and public land managers, and publish in suitable extension outlets. The position is a 12-month appointment with 75% extension and 25% teaching and research. Applicants must be willing to travel extensively. Ph.D. required with at least one and preferably two degrees in watershed management, water resources, environmental science, or physical geography and another degree in a closely allied field such as range management, forest science, fisheries, or wildlife science. Send a letter of application, résumé, transcripts, and have three letters of recommendation sent to: **Dr. Charles P. Hawkins, Extension Watershed Specialist Chair, Department of Geography, Utah State University, Logan, UT 84322-5240.** The application deadline is 1 October 1990 or until a suitable candidate is found. *USU is an Affirmative Action/Equal Opportunity Employer and an Immigration Reform and Control Act Employer.*

POSITIONS OPEN

A faculty position is available for **ASSISTANT PROFESSOR** in research at Cornell University Medical College. Cell/molecular biology and tissue culture experience essential. Research involves pre-cancerous lesions of the head and neck and other areas of related biology. Please send curriculum vitae to: **Lisa Staiano-Coico, Ph.D., Department of Surgery, Cornell University Medical College, 1300 York Avenue, New York, NY 10021.**

ASSISTANT PROFESSOR DEPARTMENT OF PATHOLOGY

Academic clinical pathologist. The Department of Pathology, University of Maryland at Baltimore, invites applications for the position of Assistant Director of Blood Bank, Hematology and Apheresis Service. We are a 785-bed academic tertiary care hospital with large trauma and oncology services. Responsibilities include medical student and resident teaching. Collaboration in on-going clinical research projects is encouraged. Board certification in clinical pathology is required. Board certification in anatomic pathology is desirable. Please forward your curriculum vitae to:

Bennett Edelman, MD
University of Maryland Hospital, Room N2W50B
22 South Greene Street
Baltimore, MD 21201

The University of Maryland is an Equal Opportunity Employer.

ASSISTANT PROFESSOR. BIOCHEMISTRY/BIOTECHNOLOGY. The Department of Pharmaceutical Sciences, Campbell University, invites applications for a tenure-track position which involves teaching and research in biochemistry/biotechnology. Candidates should have a Ph.D. and at least 2 years of postdoctoral experience. Send résumé, a summary of research interests and names of three references to: **Dr. John H. Mennear, School of Pharmacy, Campbell University, P.O. Box 1090, Buies Creek, NC 27506.**

Campbell University is an Equal Opportunity Employer.

The Department of Chemistry of The University of Chicago invites applications from outstanding individuals for **ASSISTANT PROFESSOR** (tenure-track) faculty positions in inorganic, organic, physical, and polymer chemistry. Postdoctoral experience is preferred. Applicants should submit curriculum vitae, a list of publications, a succinct outline of their research plans and should arrange for three letters of recommendation to be sent to: **Graham R. Fleming, Chairman, Department of Chemistry, The University of Chicago, 5735 South Ellis Avenue, Chicago, IL 60637.** *An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR. The Department of Anatomy and Cellular Biology at Harvard Medical School invites applications for two assistant professor positions with a start date in summer or fall of 1991. Applicants should have an active research program in the general areas of cell, developmental, and/or reproductive biology. Current departmental faculty employ molecular and cellular technologies to study early embryogenesis, cell lineage and division, cell-cell interactions, extracellular matrix, and intracellular signaling and transport. Applicants should be willing to teach in a new course for medical students called "The Body." This 8-week (120-hour) course treats both microscopic and gross anatomy briefly and is the only required teaching commitment. Send curriculum vitae, bibliography, and three or four references by 1 November 1990 to: **Dr. Elizabeth D. Hay, Chairperson, Department of Anatomy and Cellular Biology, Harvard Medical School, 220 Longwood Avenue, Boston, MA 02115.** *Harvard University is an Equal Opportunity/Affirmative Action Employer.*

Molecular Basis of Pathogenesis, Department of Veterinary Microbiology, University of Saskatchewan, Canada. For a new tenure-track faculty position, **ASSISTANT/ASSOCIATE PROFESSOR**, we seek a Ph.D. with postdoctoral experience and a record of research excellence in the molecular basis of pathogenesis. This is an outstanding opportunity to enhance ongoing investigations in molecular virology and immunology and on new techniques for infectious disease diagnosis. Letters of application, a curriculum vitae, and the names of three references to: **Dr. V. Misra, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Canada S7N 0W0.** Telephone: 306-966-7218. FAX: 306-966-8747.

POSITIONS OPEN

EXPERIMENTAL PHYSICAL OCEANOGRAPHER

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

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

ASSISTANT OR ASSOCIATE PROFESSOR. To teach general biology, anatomy/physiology, and/or molecular and experimental biology. Ph.D. in biological sciences with teaching experience. Prefer postdoctoral experience with research interest in electron microscopy and/or physiology. Experience in the use of modern molecular techniques, ability to seek and attract extramural funding, and a commitment to establishing an externally funded research program. Position open until filled. *Non-Americans must be eligible to work in the United States.* Please send letter of interest, résumé, transcript, and three letters of recommendation to: Director, Human Resources, 643 Martin Luther King, Jr., Drive, Atlanta, GA 30314.

ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF MEDICINE

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

This position will be available 1 October 1990. Send curriculum vitae, letters of reference, and a statement of interests as soon as possible and no later than 1 October 1990 to: Robert W. Schrier, M.D., Chairman of Medicine, University of Colorado Health Sciences Center, Box C281, 4200 East 9th Avenue, Denver, CO 80262.

Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF PATHOLOGY

Academic surgical pathologists. The Department of Pathology, University of Maryland at Baltimore, invites applications for two positions at the assistant or associate professor level in anatomic pathology. The applicants should have an academic orientation as they will be required to be active in our teaching programs and to be active participants in major research programs involving cellular and molecular biological aspects of neoplasia, shock, and neuroimmunopathology. The applicants must possess the appropriate training and Board certification in anatomic pathology. Proficiency, interest, and certification in both diagnostic surgical pathology and cytopathology is required. Board certification in clinical pathology is desirable but not required. Please forward your curriculum vitae to:

Wolfgang J. Mergner, M.D., Ph.D.

Department of Pathology

University of Maryland School of Medicine
Room 7-00, MSTF, 10 South Pine Street
Baltimore, MD 21201

The University of Maryland is an Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR THE OHIO STATE UNIVERSITY

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

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

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

PENNINGTON BIOMEDICAL RESEARCH CENTER PROFESSOR/PROGRAM CHIEF

Applications are being accepted for the following positions:

PROFESSOR/PROGRAM CHIEF in the Molecular Biology and Infectious Disease Research Program. Desire currently ongoing funded research program in Molecular Nutrition/Infectious Disease research with potential of transferring it to PBRC. Minimum requirements: Ph.D. or M.D. with 6 to 10 years of experience in molecular nutrition and infectious disease research with appropriate publication record. Salary range: \$70,000 to \$90,000. Refer to: P.C. #9041250002.

PROFESSOR/SCIENTIST in the Molecular Nutrition and Infectious Disease Research Program. Desire currently ongoing funded research program in Molecular Biology/Molecular Nutrition Research with potential of transferring it to PBRC and demonstrated experience in postdoctoral training. Minimum requirement: Ph.D. or M.D. with 5 to 10 years of experience in molecular biology and infectious disease research with appropriate publication record. Salary range: \$60,000 to \$80,000. Refer to: P.C. #9041250003.

Submit curriculum vitae and three references by 1 September 1990.

George A. Bray, M.D.

Louisiana State University Medical Center

6400 Perkins Road

Baton Rouge, LA 70808

Telephone: 504-765-2500

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can publish YOUR LOGO with your one-column line classified ad. No extra fee is assessed: you will be billed at our regular line rate for the number of lines the logo occupies. For details, call Classified Advertising: 202-326-6555.

POSITIONS OPEN

BOTANIST needed to teach courses in general botany and plant systematics during spring semester 1991. This position, a sabbatical leave replacement, begins 8 January and ends 12 May 1991. A strong commitment to teaching is required for this position in a strong liberal arts program. Send résumé and names and addresses of three referees by 15 September 1990 to: Larry Jones, Chair, Biology Department, The University of the South, Seawane, TN 37375. *An Affirmative Action/Equal Opportunity Employer.*

CELL BIOLOGIST

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

Director of Administration

CellPro, Incorporated

22322 20th Avenue Southeast, Suite 100

Bothell, WA 98021

ADDICTION RESEARCH CENTER NATIONAL INSTITUTE ON DRUG ABUSE ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION NIDA/ADAMHA U.S. PUBLIC HEALTH SERVICE CLINICAL NEUROENDOCRINOLOGY LABORATORY CHIEF

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

U.S. citizenship is required.

NIDA is an Equal Opportunity Employer.

ADAMHA is smoke free and drug free.

DEPARTMENT OF AGRICULTURE (USDA) AGRICULTURAL RESEARCH SERVICE (ARS)

Supervisory veterinary medical officer/microbiologist/industrial hygienist, environmental health and safety, National Animal Disease Center (NADC), Ames, Iowa.

ARS is seeking a SAFETY OFFICER to lead its program on environmental health and safety at the NADC. This individual will: (i) advise the directors of the NADC and the National Veterinary Services Laboratories (NVSL) of the Animal and Plant Health Inspection Service, (ii) supervise the staff of the Environmental Health and Safety Unit, (iii) develop and implement safety and health procedures, (iv) conduct investigations to identify and control biological, chemical, and occupational hazards associated with the programs of NADC and NVSL. The Environmental Health and Safety unit services more than 500 scientists and staff conducting laboratory investigations on animal diseases at NADC and NVSL.

The candidate must have knowledge and skill in communication and leadership; biological safety containment concepts; and infectious disease transmission, pathogenesis, and prevention.

Ph.D. is desirable. *Must be U.S. citizen.* Salary is commensurate with experience; \$42,601 to \$65,444. For information on the position, contact: Dr. Harley Moon, Director, NADC, telephone: 515-239-8201. For information on application procedures/forms contact: Janie E. Carr, telephone: 301-344-4569. Applications in response to this advertisement should be marked 0N042.

Applications must be received by 14 September 1990. Send to: USDA, Agricultural Research Service, Personnel Operations Branch, Northern Section, 6305 Ivy Lane, Room 325, Greenbelt, MD 20770.

An Equal Opportunity Employer.

POSTDOCTORAL SCIENTIST

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

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

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



SmithKline Beecham
Pharmaceuticals

DIRECTOR OF CHEMISTRY

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

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

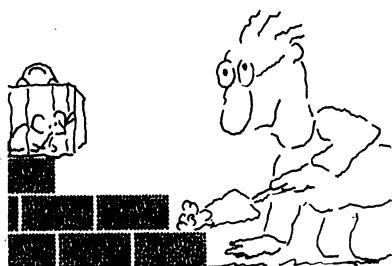
Natural Product Sciences offers competitive salaries, benefits, and the opportunity for equity ownership. Our location on the western slope of the Rocky Mountains provides an unusually beautiful and livable environment in which to pursue innovative and important science.

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



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CELL CULTURE PROCESS DEVELOPMENT

• Bio/Chemical Engineering • Cell Biology • Cell Separation

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

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

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

Hyland Division

Baxter

POSITIONS OPEN

CHIEF DIVISION OF ONCOLOGY/HEMATOLOGY

Full-time academic appointment available at Southern Illinois University (SIU) School of Medicine. Associate professor or professor of medicine, depending on experience. Internal medicine and oncology/hematology certification or equivalency is required. Teaching and patient care responsibilities with a strong interest in clinical research. Send résumés to: **Oliver E. Owen, M.D., Professor and Chairman, Department of Internal Medicine, SIU School of Medicine, P.O. Box 19230, Springfield, IL 62794-9230. SIU School of Medicine is an Equal Opportunity/Affirmative Action Employer.** This position will be open until October 1990 or until filled.



MOLECULAR BIOLOGY SERVICE DIRECTOR

Ambion, Inc., a growing molecular biology products and services company, is seeking a director of its Service Division. The ideal candidate should have postdoctoral experience, extensive experience with DNA sequencing, and an entrepreneurial spirit. There will also be opportunities for research and development in the several areas of molecular biology. Ambion is in Austin, location of the University of Texas and the state capital, at the edge of the Texas hill country with nearby lakes and rivers that provide abundant recreational opportunities.

Ambion offers competitive salaries, benefits, and an employee stock option plan. Reply to: **Ambion, Inc., 2130 Woodward Street, #200, Austin, TX 78744.**

DIRECTOR, MARINE BIOMEDICINE. The University of California, San Diego (UCSD), invites applications from scientists with an outstanding record in research and teaching for the position of director of marine biomedicine, jointly sponsored by the School of Medicine (SOM) and Scripps Institution of Oceanography (SIO). Applicants must qualify for a full professorial appointment (tenured) in an appropriate department, should possess interests relevant to the SOM and SIO, and should have leadership qualities suitable for directing a newly developing effort in marine biomedicine, a broad-based academic activity. The Physiological Research Laboratory, located on the SIO campus, composed of faculty, staff, and students from both the SOM and SIO, will remain one component of efforts to foster substantial growth in marine biomedicine at UCSD. It is anticipated that the expanded program will involve both areas of current collaboration between SIO and SOM, such as neurobiology, biomarine chemistry, and marine pharmacology. Salary commensurate with qualifications and based on established UCSD salary schedule. Send letter of application, curriculum vitae, reprints, and names and addresses of referees by 1 October 1990 to: **Search Committee Co-Chair, Frank Powell, Ph.D., Associate Professor, Department of Medicine, Division of Physiology, M-023A, University of California, San Diego, La Jolla, CA 92093. An Equal Opportunity/Affirmative Action Employer.**

MEDICAL COLLEGE OF GEORGIA EXECUTIVE VICE PRESIDENT

The Medical College of Georgia is the health sciences university of the state of Georgia. The executive vice president is the chief academic officer and the second ranking officer of the university, acting for the president in his absence. The successful candidate should have an earned doctorate and credentials suitable for the rank of full professor, significant experience and accomplishments as an administrator, understanding of the operations of a health sciences research university. Desired starting date is 1 January 1991. Applications and nominations should be sent to: **Gregory L. Eastwood, M.D., Dean, School of Medicine, AA-152, Medical College of Georgia, Augusta, GA 30912** before 30 September 1990. Applications should include a current curriculum vitae and a letter describing the significant qualifications and particular interests the applicant would bring to the position. *Provisions of the Georgia Open Records Act are applicable; curriculum vitae of applicants must be revealed upon request. The Medical College of Georgia is an Affirmative Action/Equal Opportunity Employer. We especially urge applications and nominations of women and racial minorities.*

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

POSITIONS OPEN

DIRECTOR ACADEMY FOR MATHEMATICS AND SCIENCE TEACHERS

The Academy for Mathematics and Science Teachers (AMST) of Chicago is a major initiative in improving the teaching and learning of mathematics and science in the United States. The Academy will serve as the focus for self-improvement for the 17,000 teachers in the Chicago Public Schools who teach mathematics and science at the elementary and secondary levels. The academy is administered by the Chicago Education Foundation, Inc., a consortium of 14 institutions of higher education in the Chicago area.

The salary will be commensurate with the responsibilities of the position. Applicants should mail curriculum vitae and the names of three references to: **Search Committee, AMST, 10 West 35th Street, Chicago, IL 60616. FAX: 312-808-0103. Telephone: 312-702-7479.** Applications should be received by 15 September 1990. *The Academy is an Equal Opportunity Employer.*

HEAD DEPARTMENT OF GENETICS

The College of Agriculture and Life Sciences of North Carolina State University invites nominations and applications for the position of Head of the Department of Genetics. Duties will be to provide leadership and administer a strong department of 19 faculty members, and to teach or conduct research in some area of genetics. Candidates should have an established scientific reputation in genetics, a Ph.D. or equivalent degree, and administrative experience or demonstrated potential for leadership. Applications should include curriculum vitae, names, and addresses of at least three references, and a statement describing applicant's interest and qualifications for the position. Screening of applications will begin 15 September 1990 and continue until a suitable candidate is found. Address application and nominations to: **Dr. E. D. Seneca, Chairman, Search Committee, Botany Department, Box 7612, North Carolina State University, Raleigh, NC 27695-7612.**

North Carolina State University is an Equal Opportunity/Affirmative Action Employer.

BIOTECHNOLOGY INSTRUMENTATION SUPERVISORS IOWA STATE UNIVERSITY

We seek a person to direct the operations of our university-wide nucleic acid facility for automated DNA sequencing, oligonucleotide synthesis, and related activities. A second person is sought to direct our flow cytometry facility. Both individuals will operate and maintain instrumentation, train and manage personnel, conduct independent research to develop new methods, and prepare reports and grant proposals. Prior experience with all specialized equipment in the facilities is not required. Minimum Ph.D., M.S. plus 3 years of experience, or B.S. plus 6 years of experience. Salary range: \$25,565 to \$41,551. Send résumé and names, addresses, and telephone numbers of three references to: **Walter Fehr, Office of Biotechnology, 1010 Agronomy, Iowa State University, Ames, IA 50011. FAX: 515-294-4629. Deadline 17 August 1990, or until filled. Iowa State is an Affirmative Action/Equal Opportunity Employer.**

ENGINEER. Signal processing systems design. Develop high-speed, mega channel spectrum analyzers based on multi-stage filter banks and fast Fourier transforms for radioastronomy observations. Signal processing system architecture investigation, system design, board level H/W design and system testing, etc. Minimum Ph.D. in electrical engineering: coursework and/or project background in signal processing, spectral analysis, detection, and estimation, and spectral correlation characterization required; familiarity with digital filters, digital electronics and CAD systems. Forty hours per week; \$4810 per month. Job site/interview: Palo Alto, California. Applicants send ad with résumé to: **Job #PC16868, P.O. Box 9560, Sacramento, CA 95823-0560** no later than 18 August 1990.

The Ben-Gurion University of the Negev. **TENURE-TRACK OPENING** in the Program of Biotechnology. Main research should be related to separation processes in biotechnology, stressing the applicative and technological aspects. Send curriculum vitae, three references, and research plans to: **Professor J. C. Merchuk, Department of Chemical Engineering, Ben-Gurion University, Beer Sheva, Israel.**

POSITIONS OPEN

EPIDEMIOLOGIST CENTERS FOR DISEASE CONTROL (CDC) ATLANTA

The Radiation Studies Branch, Division of Environmental Hazards and Health Effects (EHHE), Center for Environmental Health and Injury Control, has a vacancy for an epidemiologist to conduct epidemiologic studies related to possible health effects of populations exposed to ionizing radiation. EHHE has approximately 50 professional, technical, and support personnel responsible for a variety of challenging environmental public health programs. Although not required for consideration, a Ph.D., M.D., Sc.D., or Dr.P.H. degree with a strong background in epidemiology, biostatistics, and environmental health; four or more years experience in related environmental health work; and a relevant publication record in peer-reviewed journals are desirable. Specifically, experience in epidemiologic studies involving ionizing radiation would be a strong attribute for qualified applicants. The approximate salary range is from \$42,000 to \$67,000, depending on qualifications and experience.

Interested persons should send curriculum vitae to: **James M. Smith, Ph.D., Chief, Radiation Studies Branch, Centers for Disease Control, Mail Stop F-28, 1600 Clifton Road, N.E., Atlanta, GA 30333.**

CDC is an Equal Opportunity Employer and provides a smoke-free environment.

EVOLUTIONARY GENETICS/ MOLECULAR EVOLUTION DEPARTMENT OF BIOLOGY UNIVERSITY OF ROCHESTER

The Department of Biology at the University of Rochester wishes to appoint an evolutionary geneticist or a molecular evolutionist pursuing experimental studies on the forces and patterns of evolution in plants or in animals. Areas of interest include, but are not limited to, genetic bases of evolutionary changes, rates and patterns of DNA sequence evolution, molecular variations within populations, selective constraints on gene and genome evolution, etc. Although we anticipate a tenure-track appointment at the **ASSISTANT PROFESSOR** level, a more senior level appointment is not excluded. Applicants should send curriculum vitae, statement of research interests, reprints, and names of at least three referees before 1 September 1990 to: **Dr. Chung-I Wu, Chair, Evolutionary Genetics Search Committee, Department of Biology, University of Rochester, Rochester, NY 14627.**

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

FACULTY POSITION IN GASTROINTESTINAL RESEARCH INVESTIGATOR IN THE BASIC OR CLINICAL SCIENCES

A faculty position is available for a basic or clinical investigator in the gastroenteric sciences in a large academic Department of Gastroenterology. Applicants should possess M.D. or Ph.D. degree and have evidence of an independent program of research with extramural, peer-reviewed funding. Those with clinical training in gastroenterology can develop within this large department flexible ways whereby these skills can be maintained and utilized. Faculty ranking is also flexible, commensurate with the successful applicant's experience and academic standing.

The field of study is not restricted. Current faculty have interests in basic and applied research in liver function and disease, pancreatic function and disease, gastrointestinal peptides, gastrointestinal motility, epidemiology of digestive diseases and the functional bowel diseases. Outstanding support services are available and the opportunities for collaborative research are excellent. Applicants would be expected to have, or to establish, credentials in the national arena of academic gastroenterology.

Please forward applications including curriculum vitae, bibliography, a summary of research interests and the names of three references to:

**Sidney F. Phillips, M.D.
Gastroenterology Unit
Mayo Clinic
Rochester, MN 55905**

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RESEARCH OPPORTUNITIES

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

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

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



**MOLECULAR
VACCINES INC.**

An Equal Opportunity Employer

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Herbicide Discovery Research—MS Biologist

We're DowElanco, a research-based agricultural products company that's a leader in its field. Currently, we're seeking an MS level Biologist for our herbicide discovery research group. You'll join an interdisciplinary team of biochemists, biologists, and chemists utilizing basic and applied research to discover novel herbicidal molecules.

Responsibilities include: greenhouse and laboratory research with a principle investigator, including test set up, execution, evaluation, and analysis. An MS with at least 2 years of experience in plant physiology, weed science, or a related biological field is required. Practical experience in chemistry and a functional knowledge of computers also is desirable. Excellent communication skills and interpersonal skills are a must.

You will begin with us in Walnut Creek, California and relocate to a new state-of-the-art research facility in Indianapolis which will be completed in the fourth quarter of 1992.

DowElanco offers an excellent salary and benefits package and outstanding opportunity for advancement. Send your resume, by September 1, to Dr. Scott H. Hutchins, R&D Recruitment Manager, DowElanco, 4040 Vincennes Circle, Indianapolis, IN 46268-3030. EOE.



DowElanco



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

Our Legislation Department is seeking a

BIOTECHNOLOGIST
(MOLECULAR BIOLOGY AND GENETICS)

or

ENGINEER IN ENVIRONMENTAL SCIENCES

or

FOOD TECHNOLOGIST

who will be responsible for

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

For this position we require:

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

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

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

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

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

POSITIONS OPEN

FACULTY POSITION in cell and molecular biology, University of Connecticut Health Center. The Department of Microbiology is seeking to fill a tenure-track position at the rank of assistant professor. Candidates whose research involves the application of genetic, biochemical, and molecular techniques to fundamental problems of cellular, molecular, or developmental biology are encouraged to apply. Areas of interest include but are not limited to: cell division, differentiation and development, signal transduction, and protein-nucleic acid interactions. A background in genetics or protein structure-function would be especially desirable. Applicants should have at least 2 years of postdoctoral experience and the ability to develop a high-quality research program and to teach effectively at the graduate level in the program for molecular biology and biochemistry. Application should include complete curriculum vitae including description of research experience and future research plans, copies of the candidate's most significant publications, and names of at least three references and should be submitted to: **Dr. L. Rothfield, Search Committee, Department of Microbiology, University of Connecticut Health Center, Farmington, CT 06030.** *An Equal Opportunity/Affirmative Action Employer, M/W/H.*

FACULTY POSITION IN CHILD PSYCHIATRY RESEARCH

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

HISTOLOGIST/CELL BIOLOGIST. Tenure-track FACULTY POSITION. Department of Physiological Sciences, College of Veterinary Medicine, Oklahoma State University. Ph.D. degree or equivalent in histology, cell biology, or related field. D.V.M. degree desirable but not required. Person in this position will teach histology to veterinary medical students and maintain an active research program. Rank and salary will depend on experience. Applicants should send curriculum vitae and names of three references by 31 August 1990 to: **Dr. L. E. Stein, 264 VM, College of Veterinary Medicine, Oklahoma State University, Stillwater, OK 74078.** Telephone: 405-744-8081. FAX: 405-744-5275.

An Equal Opportunity/Affirmative Action Employer.

MEMBRANE BIOPHYSICIST

A newly founded Southern California biotechnology company has a need for an experienced, energetic, and creative membrane biophysicist. The successful candidate will establish a program directed to screening ion channel blockers using single channel recording techniques in reconstituted lipid bilayers.

A Ph.D. in biophysics (preferred), physiology, biochemistry, pharmacology, or related disciplines, and a minimum of 2 years of relevant postdoctoral experience are required.

For confidential consideration, qualified candidates are encouraged to submit curriculum vitae and the names of three references to:

**William F. McLaughlin, President
Synporin Technologies
P.O. Box 2967
Newport Beach, CA 92659**

We are an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

Water column **MICROBIOLOGIST/BIOGEOCHEMIST.** Senior tenure-track faculty position in the Department of Marine and Coastal Sciences. Strong record of published research and grant support required for appointment. Teaching in area of specialization at the graduate/undergraduate levels and training of graduate students expected. Please send applications by 14 September 1990, to: **Dr. Frederick Grassle, Institute of Marine and Coastal Sciences, Box 231, Rutgers University, New Brunswick, NJ 08903.**

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MICROBIOLOGIST \$3120 TO \$3891 MONTHLY

Will be responsible for implementing a monitoring program for detection of *Legionella* in potable water. Desirable candidates should have either an M.S. or Ph.D. with emphasis in environmental microbiology and environmental molecular biology. A thorough technical and theoretical knowledge of *Legionella* and detection techniques is required. Candidate should possess skills in current gene-probe, culture methods, and immunology. Must be capable of conducting research with minimal instructions. Effective oral and written communication skills are required. Desire data management expertise including experience with computer statistics. Prefer applicants with background in drinking water microbiology.

The Metropolitan Water District offers an excellent benefit package and working conditions at our convenient location in La Verne, California (approximately 30 miles east of downtown Los Angeles). If interested, please submit résumé to: **The Metropolitan Water District of Southern California, Personnel Division, 90-157 AKP (SCI), P.O. Box 54153, Los Angeles, CA 90054.** *Equal Opportunity Employer. M/F/V/H.*

MOLECULAR BIOLOGIST DIVISION OF ONCOLOGY DEPARTMENT OF MEDICINE EVANSTON HOSPITAL NORTHWESTERN UNIVERSITY MEDICAL SCHOOL

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

Applicants should send curriculum vitae, a brief description of previous and future research and teaching interests, reprints of significant published work or reprints of manuscripts in press, and names of at least three individuals familiar with the candidate's research to: **J. Khandekar, M.D., Head, Division of Medical Oncology, Evanston Hospital, 2650 Ridge Avenue, Evanston, IL 60201.**

An Equal Opportunity Employer, M/F.

MOLECULAR GENETICIST

An opportunity is offered to join an active group committed to developing a research program in the molecular genetics of psychiatric disorders. Experience in, or willingness to learn, genetic mapping using linkage analysis methods is essential. Demonstrated abilities in gene cloning, chromosome walking, and cDNA library construction is highly desirable.

Interested parties should forward curriculum vitae and references to:

**Susan Folstein, M.D.
The Johns Hopkins University
Department of Psychiatry
Division of Psychiatric Genetics
600 North Wolfe Street, Meyer 2-181
Baltimore, MD 21205**

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POSITIONS OPEN

ORGANIC CHEMIST/BIOCHEMIST

The Division of Medical Genetics, Department of Pediatrics of Emory University School of Medicine, has a position available for an organic chemist/biochemist. The position involves applied clinical biochemical research and some laboratory service for the diagnosis of metabolic diseases. The successful candidate will lead the section specializing in organic acid analysis of physiological fluids. Minimum requirements include a master of science degree and knowledge of gas chromatography-mass spectrometry for an entry level as a research associate. Advancement to faculty position is a potential for applicants with a doctoral degree. Starting salary is negotiable and will depend on qualifications. Send applications, curriculum vitae, and three letters of references to:

**Louis J. Elsas, II, M.D.
Director, Division of Medical Genetics
Department of Pediatrics
Emory University School of Medicine
2040 Ridgewood Drive
Atlanta, GA 30322**

Closing date for application is 1 September 1990.

Emory University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

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

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

POSTDOCTORAL POSITION

Cell/molecular biologist wanted to study the role of antioxidant enzymes in carcinogenesis. Experience with immunogold labeling and/or ultrastructural morphometry preferred. Salary: \$22,000 to \$27,000 (depending on experience) with excellent fringe benefits. Send curriculum vitae and addresses of three references to: **Dr. Terry Oberley, Laboratory Service, William S. Middleton Memorial Veterans Hospital, 2500 Overlook Terrace, Madison, WI 53705.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available in neuroendocrinology. Applications are invited from persons with a Ph.D. and/or M.D. for research with a neuroendocrine group investigating the roles played by neuropeptides in central disorders and in small-cell carcinoma. Position restricted to U.S. citizen or resident. Send curriculum vitae and three letters of reference to: **Dr. William G. North, Department of Physiology, Dartmouth Medical School, Hanover, NH 03756.** *Dartmouth College is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION in molecular cardiovascular pharmacology available immediately for a recent Ph.D. in pharmacology, physiology, or biochemistry. Project is related to the molecular pharmacology of purine receptors and the involvement of second messenger systems. Salary NIH level. Experience in receptor and/or molecular biochemistry or pharmacology preferred. Send curriculum vitae and three letters of recommendation by 1 September 1990 to: **Dr. S. Jamal Mustafa, Department of Pharmacology, East Carolina University, Greenville, NC 27858.** *Federal law requires proper documentation of identity and employability at the time of employment. Affirmative Action/Equal Opportunity Employer.*



THE INTERNATIONAL ATOMIC ENERGY AGENCY
seeks

**Head, of Soil Fertility, Irrigation and Crop
Production Section**

for the Joint FAO/IAEA Division of
Nuclear Techniques
in Food and Agriculture,
Vienna, Austria

Applicants should hold a Ph.D. degree in soil science, plant nutrition, root biology, soil microbiology or a related subject and have 15 years of research experience including work with isotopes, radiation and biotechnological techniques in one or more of the above topics. Relevant experience in developing countries would be an asset. Experience with international programmes and administration desirable.

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

Tax free emoluments of approx. US\$ 65,600 p.a. Initial contract for three years. Additional allowances for dependents. Six weeks annual leave. Travel and removal expenses paid. Applicants should send their curriculum vitae quoting Vacancy Notice No. 90/028 to the Division of Personnel, International Atomic Energy Agency, P.O. Box 100, Wagramerstrasse 5, A-1400 Vienna, Austria, before 24 August 1990.

DEOXYOLIGONUCLEOTIDE ANALOG DEVELOPMENT

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

RESEARCH SCIENTIST AND POSTDOCTORAL RESEARCH POSITIONS

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

Qualified candidates must have a Ph.D. in Chemistry or a related field. Experience in nucleoside, nucleotide, oligonucleotide or phosphorus chemistry is required. Supervisory experience is advantageous but not required.

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

AMGEN BOULDER, INC.

Department 2352
2045 32nd Street
Boulder, CO 80301

Equal
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AMGEN

TOXICOLOGIST

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



Inhalation Toxicology Research Institute
P.O. Box 5890, Dept. M
Albuquerque, NM 87185

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

TITLE AND RANGE: Distinguished Professor of Fisheries Science
School of Fisheries and Ocean Sciences, University of Alaska Fairbanks

SALARY: \$2100.80 Biweekly/DOE

JOB SUMMARY: The University of Alaska Fairbanks is seeking applicants and nominations for the position of Distinguished Professor of Fisheries Science in the School of Fisheries and Ocean Sciences. The School is a newly-created unit, designed to integrate and enhance the fisheries and oceans programs within the University of Alaska. The position offers the opportunity to participate in its development and to provide intellectual leadership in this dynamic venture. As is usual for such senior positions, the successful applicant will be free to carve out his/her areas of emphasis from the numerous opportunities and challenges offered by Alaskan fisheries. He/she will assume a leadership role in fisheries research, teaching and public service for the new School, but will have considerable flexibility with respect to the specific activities. Fisheries is a dynamic area of science, and the School will be expanding its activities in a number of areas. There will be an opportunity to spend time at a number of off-campus sites in coastal areas of Alaska, and ultimately the permanent residence could be one of these locations. Initially, we plan to base the position at the Fairbanks campus.

SCHOOL SUMMARY: The School of Fisheries and Ocean Sciences embraces the Institute of Marine Science (which operates the Research Vessel *Alpha Helix*, the Seward Marine Center and the Kasitsna Bay Laboratory), the Juneau Center for Fisheries and Ocean Sciences at Auke Bay in southeast Alaska, the Fishery Industrial Technology Center in Kodiak, the Alaska Sea Grant College Program and the Marine Advisory Program. There are about 50 faculty, and an annual budget ranging from \$15,000,000-\$20,000,000.

QUALIFICATIONS: The successful candidate will bring to the position a strong background in fisheries science and will have a distinguished record in university research and/or teaching, with a strong publication record appropriate to a leader in his/her field.

JOB DURATION: Full time-Permanent

APPLICATION: APPLICANTS SHOULD SEND A STATEMENT OF INTEREST, A CURRICULUM VITAE, AND PROVIDE THE NAMES OF THREE REFEREES TO CHAIRMAN, SEARCH COMMITTEE, OFFICE OF THE DEAN, SCHOOL OF FISHERIES AND OCEAN SCIENCES, UNIVERSITY OF ALASKA FAIRBANKS, ALASKA 99775-1080, USA. Telephone (907) 474-7531; FAX (907) 474-7204.

OPENING DATE: 20 June 1990

CLOSING DATE: 16 August 1990

THE UNIVERSITY OF ALASKA IS AN EEO/AA EMPLOYER AND EDUCATIONAL INSTITUTION.

Persons hired by the University of Alaska must comply with provisions of the 1986 Immigration Control Act and are expected to possess a valid social security number. Your application for employment may be subject to public disclosure should you be selected as a finalist.

POSITIONS OPEN

POSTDOCTORAL POSITION. Available immediately at University of California, San Francisco (UCSF), in HIV immunopathogenesis. Projects involve elucidation of lymphocyte-macrophage regulation by secreted prostaglandins and study of HIV antigenic synthetic peptides. Immunology experience essential. Familiarity with molecular biology and biochemistry desirable. Send curriculum vitae with references to: **Dr. Daniel Stites, Box 0100, UCSF, San Francisco, CA 94143.** UCSF is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Position available immediately for Ph.D. with training in cell biology and/or molecular genetics to work on a project involving the molecular aspects of in vitro oncogenic transformation by radiation and chemicals. Send credentials and reprints to: **Dr. Eric J. Hall, Director, Center for Radiological Research, Columbia University, 630 West 168th Street, New York, NY 10032.** An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available 15 September 1990 at the Oregon State University (OSU) Center for Gene Research and Biotechnology for studies on the posttranscriptional mechanisms of vaccinia virus gene regulation. Salary range: \$20,000 to \$22,000. Submit résumé and three letters of recommendation by 8 September 1990 to: **Dr. D. E. Hruby, Department of Microbiology, Oregon State University, Corvallis, OR 97331-3804.** Oregon State University is an Affirmative Action/Equal Opportunity Employer and complies with section 504 of the Rehabilitation Act of 1973 and has a policy of being responsive to the need of dual career couples.

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE (NHLBI) NATIONAL INSTITUTES OF HEALTH

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

POSTDOCTORAL POSITION MOLECULAR BIOLOGY

A position is available to study the molecular pathogenesis and replication of influenza viruses. The research involves elucidation of the structural features determining virulence in the hemagglutinin and the mechanism of transcriptional regulation. The candidate will receive training in state-of-the-art molecular and immunobiological techniques that are being used to address these questions. Interested individuals should send their curriculum vitae and the names of three references to: **Dr. Yoshihiro Kawaoka, Department of Virology and Molecular Biology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105.** An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS. Available in an NIDA-sponsored training program in pharmacology of drugs of abuse. Preceptors and research areas available include: R. Bodnar, behavioral pharmacology; J. Goldfarb, electrophysiology of 5-HT and hallucinogens; J. P. Green, receptor-mediated control of transmitter release; R. Iyengar, involvement of G-proteins in desensitization and tolerance; C. Molineaux, opioid peptide processing; M. Orlowski, neuropeptide metabolizing enzymes; J. Roberts, opioid gene expression; B. Schachter, opiate abuse and fetal development; H. Weinstein, molecular determinants of drug action; S. Wilk, regulation of TRH. Candidates must have either a Ph.D., M.D., or equivalent, and be a U.S. citizen or permanent resident. Send a curriculum vitae, a letter describing research experience and the preceptors/projects of interest in the training program, and the names and addresses of three references to: **Dr. J. Goldfarb, Department of Pharmacology, Box 1215, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** An Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION. Available immediately to study regulation of protein kinase C and/or sphingolipid biochemistry. Submit curriculum vitae and three letters of reference to: **Dr. Yusuf Hannun, Department of Medicine, Box 3355, Duke University Medical Center, Durham, NC 27710.**

An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available 1 September 1990 to study the synthesis and developmental expression of U14 snRNA, an intron-encoded snRNA essential for rRNA processing. Experience in molecular biology is required. Experience in RNA synthesis/structure or *Xenopus* oocyte injection helpful. Please send curriculum vitae and three letters of reference to: **Dr. E. Stuart Maxwell, Department of Biochemistry, Box 7622, North Carolina State University, Raleigh, NC 27695.**

A **POSTDOCTORAL POSITION** is available 1 October 1990 for at least 2 years to study the molecular biology of bovine viral diarrhea virus; initially to examine the genomic relationships between isolates. Requirements include a Ph.D. in molecular biology, virology, or related field and research experience in molecular biology (e.g., cDNA synthesis, cloning, and analysis). Closing date for applications is 1 September 1990 or until position is filled. Send curriculum vitae and names of three references to: **Eugene S. Berry, Ph.D., Department of Veterinary Science and Microbiology, North Dakota State University (NDSU), Fargo, ND 58105.** NDSU is an Equal Opportunity Institution.

POSTDOCTORAL POSITION. Available immediately (renewable for 5 years) for recent Ph.D. to study the control of gene expression by dioxin. Experience in general recombinant DNA techniques, protein purification, cell culture is advantageous, however, highly motivated individuals with backgrounds in related areas are encouraged to apply. Send curriculum vitae and names/addresses of three references to: **Dr. R. N. Kurl, Program in Clinical Pharmacology, Brown University, Roger Williams General Hospital, 825 Chalkstone Avenue, Providence, RI 02908.**

ORGANIC CHEMIST. The Positron Emission Tomography Program at the University of California, Los Angeles (UCLA), has a **POSTDOCTORAL POSITION** available. The project involves the synthesis of new biochemical probes for in vivo assessment of pre- and postsynaptic neurotransmitter function. Applicants must have a Ph.D. degree in synthetic organic chemistry. Opportunity for expanded knowledge and training in this rapidly expanding field. Salary range: \$25,020 to \$34,164 per year, depending on qualifications, plus fringe benefits. Send résumé to: **Dr. Jorge R. Barrio, UCLA School of Medicine, Division of Nuclear Medicine and Biophysics, Los Angeles, CA 90024.** UCLA is an Equal Opportunity/Affirmative Action Employer.

A **POSTDOCTORAL POSITION** is available immediately in the area of neuroimmunology. Research involves (i) the cellular and molecular consequences of dual signaling of T-cells through their beta adrenergic and T-cell receptors and (ii) defining the cellular and molecular defect(s) in the responsiveness of T-cells obtained from patients with gliomas. Strong background in cell and molecular biology or immunology desirable. Please send curriculum vitae and names of three references to: **Dr. Tom Roszman, Department of Microbiology and Immunology, University of Kentucky Medical Center, MS-401, Lexington, KY 40536-0084.**

Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Position available for an individual with a Ph.D. and experience in molecular biology. The successful applicant will be engaged in research on the biochemical and molecular mechanisms by which angiotensin peptides and other hormonal and pharmacological stimuli mediate cardiac muscle cell growth. There will also be the opportunity to engage in research defining the role of a localized intracardiac renin-angiotensin system in mediating cardiac muscle cell growth, with an emphasis on the regulation of the precursor genes for this system. Competitive salary and fringe benefits are available. Please send curriculum vitae and three names or letters of reference to: **Dr. Kenneth M. Baker, Weis Center for Research, Geisinger Clinic, Danville, PA 17822.** Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION. Available 1 September 1990 to study regulation of synthesis and assembly of the endoplasmic reticulum. Since our experimental approaches rely heavily on recombinant DNA technology and gene expression systems, applicants should have a strong background in molecular biology and be familiar with tissue culture techniques. Send curriculum vitae and three references to: **Dr. Michael Green, Department of Microbiology, St. Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104.** An Affirmative Action/Equal Opportunity Employer, Male/Female/Handicapped/Veterans.

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

POSTDOCTORAL POSITION NEUROBIOLOGY

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

POSTDOCTORAL POSITIONS. Available immediately in the field of cell-cell interactions involved in yeast mating. One project involves the role of cell surface glycoproteins in interactions between cells of opposite mating type. A second project involves the pheromone response pathway and the role of a G protein in this pathway. Send applications, including names, addresses, and telephone numbers of three references to: **Janet Kurjan, Department of Microbiology and Molecular Genetics, Given Building, The University of Vermont, College of Medicine and College of Agriculture, Burlington, VT 05405-0068.**

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

POSTDOCTORAL POSITIONS IN CELL AND MOLECULAR BIOLOGY OF HUMAN PHAGOCYTTIC CELLS

Two postdoctoral research positions are available in the Department of Microbiology and Immunology of the University of Louisville School of Medicine. Research on human neutrophils and monocyte/macrophages centers on characterizing cytoskeletal proteins and second messenger systems linked to various membrane receptors responsible for responses to bacteria, immune complexes, virus-infected cells, and tumor cells. Molecular approaches include site-directed mutagenesis of receptor genes to determine functional sites for ligand binding, cytoskeleton attachment, and association with protein kinases. This is combined with immunobiological approaches such as monoclonal antibodies and flow cytometry. Send curriculum vitae and three recommendation letters to: **Dr. Gordon D. Ross, Chairman, Department of Microbiology and Immunology, University of Louisville, Louisville, KY 40292.** The University of Louisville is an Equal Opportunity/Affirmative Action Employer encouraging women and minority applicants.

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

Positions in the following review divisions are available:

Cardiovascular and Renal, Neuropharmacologic, Oncologic, Pulmonary, Radiodiagnostics, Endocrine and Metabolic, Anti-infective, Anti-viral, Anti-inflammatory, Anesthetic and Generic Drug Products.

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

Send detailed resume or curriculum vitae with bibliography to:

Health and Human Services
Division of Human Resources
Management, Room 4B-18
5600 Fishers Lane
Rockville, MD 20857
Attention: D.D.Dwyer

Candidates must meet all civil service requirements, including citizenship.

FDA is an Equal Opportunity Employer

**RESEARCH MANAGER
MOLECULAR PHARMACOLOGY**

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

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

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



THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE



Agricultural Biotechnology Research

Postdoctoral Associate

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

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

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

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

Science Serving Mankind

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THE UPJOHN COMPANY

Director, Cell Biology

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

Qualified applicants will possess:

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

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

Our Commitment to Scientific Excellence Continues....

Upjohn

THE UNIVERSITY OF CALGARY MOLECULAR BIOLOGY OF RETINA

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

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

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

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

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

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

International Rice Research Institute

Deputy Director General for Research

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

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

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

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

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

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

Apply to Applications with full documentation, including the names and addresses of three referees, and names of nominees should be addressed to Dr. Klaus J. Lampe, Director General, IRRI, PO Box 933, 1099 Manila, Philippines. Phone (63) 2-818-1926; FAX (63) 2-818-2087

PROGRAM DIRECTOR — SCIENCE AND HUMAN RIGHTS PROGRAM

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

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

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

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

INFLAMMATION PHARMACOLOGY

ASSOCIATE SENIOR INVESTIGATOR

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

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

Based in a state-of-the-art research facility in suburban Philadelphia, near Valley Forge, SmithKline Beecham Pharmaceuticals provides a stimulating and challenging scientific environment in which to grow and excel. We offer a competitive compensation/benefits package. For confidential consideration, please submit your C.V. to: Nancy Hasson, Employment Administrator, SmithKline Beecham

Pharmaceuticals, #H0148, P.O. Box 1539, King of Prussia, PA 19406-0939. EOE, M/F/H/V.



SmithKline Beecham
Pharmaceuticals



WORKSAFE AUSTRALIA (NATIONAL OCCUPATIONAL HEALTH AND SAFETY COMMISSION)

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

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

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

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

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

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

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

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

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

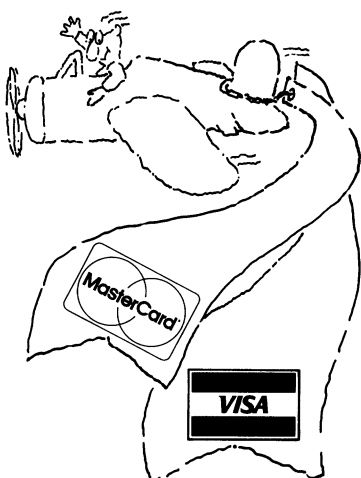
Further information on this position is available from the Chief Executive, Dr Edward Emmett, (02) 265 7500. Duty statement, job description and selection criteria may be obtained from Ms Abi Gough on (02) 265 7454.

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

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

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POSITIONS OPEN

POSTDOCTORAL FELLOWS

Postdoctoral fellow positions to study the platelet cytoskeleton. Projects include: (i) characterization of the composition and organization of the membrane skeleton, utilizing both biochemical and morphological approaches; and (ii) use of transgenic animals to study the function of specific platelet proteins. Experience in electron microscopy or molecular biology preferred. Send curriculum vitae and the names, telephone numbers, and addresses of three references to: **Dr. Joan Fox, Gladstone Foundation Laboratories, P.O. Box 40608, San Francisco, CA 94140-0608.**

FELLOWSHIP IN IMMUNOLOGY. Immunology program at a New England university health center. Two-year fellowship concentrating on basic research in immunology and molecular biology of vascular and inflammation animal and eye models. Choice of ten collaborating faculty laboratory areas available. Third-year option open. Research interests include plasminogen activator synthesis, vascular endothelial metabolism, integrin-receptor interactions, and diabetes. Position available 1990. Second position early 1991. Send curriculum vitae to: **James O'Rourke, M.D., Co-Director Vision-Immunology Center, Department of Pathology, University of Connecticut Health Center, Farmington, CT 06032.** *University of Connecticut is an Affirmative Action/Equal Opportunity Employer.*

THE JAQUA FELLOWSHIP IN SKELETAL METABOLISM JOHNS HOPKINS MEDICAL SCHOOL

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

POSTDOCTORAL FELLOWS IMMUNOLOGY

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

POSTDOCTORAL FELLOWS

Postdoctoral Fellow positions to study the platelet cytoskeleton. Projects include: (i) characterization of the composition and organization of the membrane skeleton, utilizing both biochemical and morphological approaches, and (ii) use of transgenic animals to study the function of specific platelet proteins. Experience in electron microscopy or molecular biology preferred. Send curriculum vitae and the names, telephone numbers, and addresses of three references to: **Dr. Joan Fox, Gladstone Foundation Laboratories, P.O. Box 40608, San Francisco, CA 94140-0608.**

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE. Available immediately to study proteases in mammalian cells and their role in cancer and muscle and heart disease. Salary: \$24,000 per year for 2 to 5 years. Send curriculum vitae to: **Drs. Julie Fagan and Lloyd Waxman, Animal Science Department, Rutgers University, P.O. Box 231, New Brunswick, NJ 08903.** Telephone: 201-932-8354. FAX: 201-932-6996.

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

POSITIONS OPEN

Marine botany. Two **POSTDOCTORAL FELLOWSHIPS** available starting fall of 1990. Algal physiology: Photosynthetic performance, light and nutrient relations of high arctic laminariaceae. Seagrasses: Physiological ecology of submerged sub-tropical species. Submit résumé and names of three references to: **Dr. Kenneth Dunton, University of Texas at Austin, Marine Science Institute, Port Aransas, TX 78373-1267, telephone: 512-749-6711.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE. Ph.D. in chemistry or a biological science and experience in the development of ELISA or other immunoassay systems required. Experience in HPLC, GC, MS, and methods development for drug extraction and detection desirable. Send résumé and list of three references by 17 August 1990 to: **Dr. Steven A. Barker, Analytical Systems Laboratory, School of Veterinary Medicine, Louisiana State University (LSU), Baton Rouge, LA 70803.** *LSU is an Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE HARVARD MEDICAL SCHOOL

Position available immediately to study molecular effects of hypoxia in cancer cells. Experience in cell and molecular biology and ability to carry out independent work required. Please send curriculum vitae and three names for references to: **Dr. C. N. Coleman, Joint Center for Radiation Therapy, Harvard Medical School, 50 Binney Street, Boston, MA 02115.**

POSTDOCTORAL RESEARCH POSITION

Available immediately for molecular biologic studies of a human metastases-associated gene. Experience with cDNA cloning, DNA sequencing, and expression vectors is highly desirable. Mail or fax application including curriculum vitae, a brief summary of previous training, experience, and research goals along with the names of three references to: **George D. Sorenson, M.D., Department of Pathology, Dartmouth Medical School, Hanover, NH 03756.** FAX: 603-646-6120.

POSTDOCTORAL RESEARCH ASSOCIATE. Position available to study regulation of gene expression as applied to macrophage differentiation, maturation, and function. Research focuses on the role of cytokines and eicosanoids in macrophage activation. Experience in molecular or macrophage biology, immunology, or signal transduction is desirable. Send curriculum vitae and statement of research interests to: **Dr. Kent Erickson, Department of Human Anatomy, University of California, School of Medicine, Davis, CA 95616-8643.** *The University of California is an Equal Opportunity/Affirmative Action Institution.*

MOLECULAR CYTOGENETICS

POSTDOCTORAL ASSOCIATE to study the molecular structure of chromosomal fragile sites. Requires strong background in molecular biology, cytogenetics, or cell biology. Expertise in cell culture, in situ hybridization, karyotypic analysis, and/or chromosome walking recommended. To apply, please send curriculum vitae and cover letter including a brief description of recent research activities and the names and addresses of three references to: **Human Resources/Ad Reference DD, ZymoGenetics, Inc., 4225 Roosevelt Way, N.E., Seattle, WA 98105.** *ZymoGenetics is an Equal Opportunity Employer.*

STAFF ASSOCIATE. Available immediately to join the Immunogenetics Laboratory with interest/experience in HLA and/or lymphocyte differentiation antigens. Requirements: 4 years of experience in immunogenetics and cellular immunology. Send curriculum vitae and bibliography to: **Dr. Nicole Suciu-Foca, College of Physicians and Surgeons of Columbia University, Department of Pathology, P&S 14-403, 630 West 168th Street, New York, NY 10032.**

RESEARCH BIOCHEMIST/ASSOCIATE to carry out physiological and molecular biological studies of cellular lipid and lipoprotein metabolism. Research includes studies of receptors, gene expression, and enzymology. The applicant must have a Ph.D. or equivalent degree with relevant postdoctoral experience. Apply with curriculum vitae and three references to: **Fredric B. Kraemer, M.D., Division of Endocrinology, S-005, Stanford University Medical Center, Stanford, CA 94305.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

The University of California, San Diego (UCSD), is seeking a Ph.D. applicant for a **POSTGRADUATE RESEARCHER (PGR)**. Candidates should have experience in molecular biology and retrovirology or herpesvirology to conduct research in AIDS pathogenesis and the role of viral cofactors. Position available immediately for at least 2 years. Salary range based on University of California policy. Interested individuals should send curriculum vitae with a list of three references no later than 31 December 1990 to: **Stephen A. Spector, M.D., Professor, Department of Pediatrics, UCSD Medical Center, 225 Dickinson Street (H-814-H), San Diego, CA 92103.**

Equal Opportunity/Affirmative Action Employer.

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

RESEARCH DIRECTOR

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

RESEARCH MANAGER

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

**Dr. Darrell Williams, Assistant Director
Regional Primate Research Center
Primate Field Station
Medical Lake, WA 99022**

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

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

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GREAT PEOPLE MAKE A GREAT COMPANY

Senior Research Pharmacologist Pos. #62186-4

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

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

Research Biochemist Pos. #61533-4

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

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

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

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at **(919)248-8347** in Research Triangle Park, NC or **(919)830-2997** in Greenville, NC.



Wellcome

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Senior Science Editor

The Johns Hopkins University Applied Physics Laboratory, a major non-profit research and development organization has an immediate need for an experienced science editor in its Technical Publications Group. Responsibilities include editing of scientific and technical reports and journal articles, and production coordination through printing.

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

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

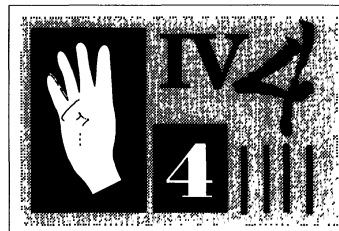
If you meet the above requirements and are interested in this opportunity, please send your resume and salary history to:

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

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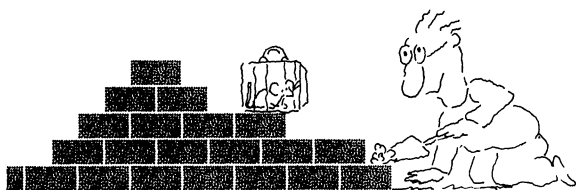
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POSTDOCTORAL POSITION

Peptide Chemistry/Immunology

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

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

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

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—Scientists APPLIED MICROBIOLOGY—

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

Associate Scientist

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

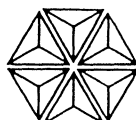
Qualifications include a BS or MS in Microbiology or related discipline with working experience in fermentation, diagnostic or environmental microbiology. Some supervisory experience is desirable.

Research Scientist

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

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

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



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INDUSTRIAL DIVISION**

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

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POSITIONS OPEN

ASSISTANT DIRECTOR OF RESEARCH

Immediate opening for position in research development in the grants department of a major voluntary health organization. Responsibilities include development of targeted research, acting as liaison to the research community and assisting the scientific director in other functions such as overseeing peer review of grant proposals and contact with the media. Applicant must have doctoral degree or equivalent in the biomedical research field as well as excellent communication skills. Send résumé, salary requirement to: **Box 75, SCIENCE.**

Equal opportunity employer, M/F.

RESEARCH ASSISTANT

Research assistant to perform product compliance studies for a midwestern contract research laboratory. This position will involve the determination and analysis of possible extractions from food packaging materials. Method development and maintaining compliance with GLP's is also essential. Requirements include an M.S. degree in chemistry, 1 1/2 years of related experience with GS, HP-LC, and infrared spectrophotometry instrumentation. Compensation includes a salary of \$12.31 per hour/\$18.46 overtime, and full benefits. This is a full-time position. Please send all inquiries to: **Judy Hedrick, #0379292-Job Service, 206 North Broom Street, Box 7163, Madison, WI 53707. An Affirmative Action/Equal Opportunity Employer.**

RESEARCH SCIENTIST. Responsible for the development of durability prediction methodology for composite materials; continuing investigations on the influence of moisture, temperature, and stress on non-linear viscoelastic constitutive and failure laws of composites; and addressing question of damage evolution on same laws. Will supervise one employee. Requires a Ph.D. in mechanical engineering and 3 years of experience in job offered or in mechanical engineering (composite materials). Also requires a broad background in mechanical engineering, including irreversible thermodynamics, and fracture mechanics; experience in developing specific methodologies for delayed failure of composite materials; practical laboratory experience in personally performing tests using servo-hydraulic systems; and performing post failure examinations using standard microscopic techniques. Salary: \$54,050 per year. Job and interview site: Moffett Field, California. Send this advertisement and résumé to: **Job #PC 16666, P.O. Box 9560, Sacramento, CA 95823-0560** not later than 18 August 1990.

RESEARCH ASSOCIATE

Research associate needed to develop numerical procedures for formulating algorithms that describe three-dimensional fluid flow and sediment transport, erosion and deposition; develop numerical procedures for simulating sedimentary basin tectonics, subsidence, compaction, sea-level changes, hydrocarbon migration under hydrodynamic conditions, synthetic petrophysical logs and seismic sections, carbonate and evaporite sedimentation, and basin circulation; develop dynamic graphic displays of sedimentary simulation on Stardent Graphics computers and Silicon Graphics computers; system management of Stardent and Silicon Graphics computers; manage geomathematics group computers in Department of Applied Earth Sciences; assist graduate students; help prepare proposals for research funding; publish research results; perform technical presentations and demonstrations for sedimentary basin simulation.

Requires the Ph.D. in either geological engineering, geology, or geophysics; knowledge of FORTRAN, C, UNIX languages/operating systems; familiarity with graphics programming on Silicon Graphics or Ardent-Titan machines; familiarity with numerical procedures for formulating algorithms that describe three-dimensional fluid flow and sediment transport, including expertise in implementing Navier-Stokes equations and empirical bedload and suspended-load transport models for simulating erosion, transport, and deposition of clastic sediments; familiarity with theoretical procedures for describing basin tectonics, subsidence, burial and compaction, and their effects combined with sea-level changes as they affect coastal geomorphologies. Salary: \$3000 per month.

The place of employment and interviews will be Stanford University, Stanford, California.

Send this ad and your résumé to: **Job #JJ16351, P.O. Box 9560, Sacramento, CA 95823-0560**, no later than 24 August 1990.

POSITIONS OPEN

RESEARCH INSTRUCTOR/ ASSISTANT PROFESSOR

We seek an individual trained in biochemistry/molecular biology who possesses interest and/or experience in the mechanisms whereby parasites or parasite vectors are attracted to, and penetrate host skin. The position, although currently nontenurable, is funded by hard dollars and allows for independent and collaborative studies, supervision of graduate students/postdoctorates and modest teaching. Grant writing and computer skills are most important. Curriculum vitae, description of research accomplishments/interests, and three supporting letters should be forwarded by individuals possessing a minimum of 3 years of postdoctorate training. For fullest consideration, applications should be submitted no later than 15 September 1990.

B. Salafsky, Ph.D.
Department of Biomedical Sciences
University of Illinois
College of Medicine at Rockford
1601 Parkview Avenue
Rockford, IL 61107

The University is an Affirmative Action/Equal Opportunity Employer.

RESEARCH PHARMACOLOGIST

Position requires a Ph.D. in pharmacology, biochemistry, or other closely related field and research experience in vivo ADME drug studies. Additional requirements include expertise in various surgical procedures; proficiency with HPLC, radioanalysis, and computers in the analysis of test compounds and their metabolites; and experience in analytical methods development. Each study will require surgical techniques for collection of biological samples, quantifying drug/metabolites, data analysis, and proposal and report writing. Salary: \$39,000 per year for a 40-hour week. Qualified applicants should contact: **Mr. George Johns, Alabama State Employment Service, 3440 Third Avenue South, P.O. Box 12046, Birmingham, AL 35202-2046. Job Order #ALO615804. Affirmative Action/Equal Opportunity Employer.**

SCIENTIFIC RESEARCH ASSOCIATE. Perform research and development on the control of plasma instability using neural network techniques. Construct novel neural network models for grammatical inferences. Forty hours per week, 9:00 a.m. to 5:00 p.m.; \$33,000 per year. Must have Ph.D. in physics. Require knowledge in chaos, plasmas, neural network, and cellular automata. Experience and knowledge in experimental and theoretical research in plasma physics and computer science. Knowledge and experience in computer hardware interfacing, data acquisition instrumentation and their electronics. Skilled in low-level computer programming for interfacing and intensive bitwise operations using C and Assembly language. High-level scientific programming with FORTRAN and C, knowledge required. Please forward résumé and copy of ad to: **DEED, 1100 North Eutaw Street, Room 212, Baltimore, MD 21201. CO #8945014. Prove eligible to work in the United States. Job location: College Park, Maryland.**

JOINT INSTITUTE FOR LABORATORY ASTROPHYSICS

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

- **RESEARCH ASSOCIATESHIPS** for advanced research by recent Ph.D.'s. Applications are accepted and considered anytime throughout the year.

- **VISITING FELLOWSHIPS** for advanced research by senior scientists. Deadline for completed applications is 1 November 1990. (Please note: the deadline date is changed from that of previous years!)

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

The University of Colorado at Boulder has a strong institutional commitment to the principle of diversity. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, members of ethnic minorities, and disabled individuals.

POSITIONS OPEN

ASSOCIATE RESEARCH SCIENTIST. Wallingford, Connecticut. Execution of sophisticated nucleoside synthetic organic techniques involved in research of new and novel nucleoside structures which have useful therapeutic properties as antivirals, particularly as inhibitors of HIV. Isolate, characterize, and evaluate purity of new derivatives using high field nuclear magnetic resonance spectrophotometers, and infrared, ultraviolet, and mass spectrometers. Analysis, evaluation, and initial interpretation of experimentation concerning synthetic organic techniques. Masters degree in organic chemistry with concentration in synthesis of natural products required. Coursework must include use of NMR, including proton, carbon-13, DEPT, NOE, APT, HECTOR and 2D, infrared, ultraviolet, and mass spectra and elemental analysis techniques. No experience necessary. Forty hours per week; \$33,000 per year. Send résumé to: **Job Service Technical Unit, Connecticut Department of Labor, 200 Folly Brook Boulevard, Wethersfield, CT 06109. Refer to: Job Order #3073962.** No phone calls accepted.

ASSISTANT SPECIALIST. Molecular and Cell Biology, Division of Biochemistry and Molecular Biology. It is anticipated that funds will be available from a grant from the National Institutes of Health starting 1 August 1990, for 1 year, with the possibility of renewal, to support two individuals each at 70% of the full-time rate (\$29,136 to \$33,372) to participate in research in the mechanism of active transport and membrane structure in bacteria. The individual must have a strong background in enzymology and membranology. Laboratory proficiency is required in genetic manipulations in *Salmonella typhimurium* and in *Escherichia coli* in vitro recombinant DNA techniques, in particular the polymerase chain reaction, chemical and site-directed mutagenesis. Proficiency in computer usage for searches, structural modeling, and protein alignments is also required. Candidates should have at least 3 years of postdoctoral experience, have demonstrated the ability to carry out top quality research, and have experience in supervisory and instructional capacities. Qualified candidates should send a letter of application, résumé, names of three references, and copies of relevant publications to: **Ellie West, Division of Biochemistry and Molecular Biology, 401 Barker Hall, University of California, Berkeley (UCB), CA 94720**, on or before 3 September 1990. *UCB is an Affirmative Action/Equal Opportunity Employer.*

SCIENCE WRITERS

Purdue University's School of Agriculture seeks two science writers. One will work with national mass media; the other will work with special publications. A B.A./B.S. in communication or science and 3 years of experience in science communications are required for the first position, and a B.A./B.S. and 3 years are required for the second position. *Purdue is an Equal Opportunity/Affirmative Action Employer.* Send résumé to: **Agricultural Communication Service, c/o Dave King, Room 210, Ag Administration Building, Purdue University, West Lafayette, IN 47907.**

SENIOR RESEARCH SCIENTIST

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

SENIOR SCIENTIST

The Tobacco and Health Research Institute at the University of Kentucky seeks a senior scientist with expertise in microcirculatory intravital microscopy and other imaging technology. The individual would have a nontenure-track appointment in an academic department consistent with experience. Requirements are an M.D. and/or Ph.D. with a continuous record of research publications and extramural research grant support. Initial appointment is for a period of 3 years, with opportunity for renewal. Deadline for applications is 15 September 1990. Send curriculum vitae and three letters of reference to: **Dr. John N. Diana, Director, University of Kentucky, Tobacco and Health Research Institute, Cooper and University Drives, Lexington, KY 40546-0236.**

Equal Opportunity Employer.

Research Opportunities In Entomology

The Department of Research Specialists at Pioneer Hi-Bred International, Inc. is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. The successful applicant will join a group whose focus is providing research support to the Pioneer crop improvement effort.

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

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

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

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

APPLICATION DEADLINE: August 24, 1990

AMYLIN SYMPOSIUM

La Jolla, California, January 8-9, 1991

Organizers:

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

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

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Per Westermark, University of Uppsala
Nick Hales, University of Cambridge

Molecular & Cell Biology of Amylin:

Sydney Brenner, University of Cambridge
Ken Luskey, University of Texas
Donald Steiner, University of Chicago
Garth Cooper, Amylin Corporation

Amylin & Fuel Metabolism:

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

Diabetes & Insulin Resistance:

Roger Unger, University of Texas
Jose Caro, East Carolina University
Ed Horton, Medical Center Hospital of Vermont



The Symposium will be in the Conference Center of the Embassy Suites Hotel at 4550 La Jolla Village Drive, San Diego, California 92122. A registration fee of \$295 will cover: Attendance, Welcome Reception, Lunch on both days, Conference Dinner. A Poster Session is planned. Participants are invited to present their abstracts. Favorable terms for accommodations have been arranged through Embassy Suites Hotel, and meeting saver fares will be available through American Airlines. Please call the toll-free number: (800) 433-1790 at American when making reservations, and refer to Star File Number S01118C. Space is limited, so early registration is recommended.

For information on registration contact:

Ms. Lisa Dimler
Amylin Corporation
9373 Towne Centre Drive, Suite 250
San Diego, California, USA 92121
Telephone: (619) 552-2200
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POSITIONS OPEN

SENIOR SCIENTIST. Faculty position available in research-oriented Department of Otolaryngology at Wayne State University. Applicants should have a minimum of 2 years of experience and potential for funding in related field. Salary and rank negotiable. Letter of inquiry and curriculum vitae should be sent to: **Robert H. Mathog, M.D., Professor and Chairman, Department of Otolaryngology, Wayne State University School of Medicine, 540 East Canfield, 5-E UHC, Detroit, MI 48201.**

The Department of Psychiatry at the University of Arizona College of Medicine is seeking a **PRECLINICAL SCIENTIST** involved in psychiatric or substance abuse research for a tenure-track position. Must have M.D. or Ph.D. and proven research record. Salary commensurate with experience and rank. Applicants should submit curriculum vitae, letter of interest, and the names and addresses of three references to: **Alan J. Gelenberg, M.D., Professor and Head, Department of Psychiatry, Arizona Health Science Center, Tucson, AZ 85724.** Position will remain open until filled. *Women and minority applicants are strongly encouraged to apply. The University of Arizona is an Affirmative Action/Equal Opportunity Employer.*

TOXICOLOGIST. Growth-oriented Gulf Coast specialty chemical manufacturer is searching for a highly motivated individual to manage a proactive program conducting research on the health and environmental affects of our products, by-products, and waste materials. The position will be very visible and will report directly to the vice president, environmental affairs. The ideal candidate will have a Ph.D. in toxicology or a closely related field, and sufficient industrial experience to function independently. Primary duties will include evaluation and recommendation of company policy; selecting contract laboratories and evaluating ongoing studies; preparation of regulatory submittals for EPA (TSCA), FDA, and other agencies worldwide; and assist in preparation of MSDS and product safety literature. Interested persons should submit a résumé with salary requests in confidence to: **The Human Resources Manager, First Chemical Corporation, P.O. Box 1427, Pascagoula, MS 39567.** An Equal Opportunity Employer.

VETERINARY PATHOLOGIST

International Research and Development Corporation, a highly diversified and growing contract research laboratory, has an immediate opening for a Veterinary Pathologist at its Mattawan, Michigan, laboratory.

Our pathology division is responsible for clinical and anatomic pathology for our extensive program of toxicological research for the pharmaceutical, agricultural, chemical, and consumer industries, as well as governmental agencies. Qualified candidates will have a D.V.M. and Board (ACVP) certification. Experience in toxicologic pathology is required. In addition, postdoctoral studies (Ph.D., M.S.) in pathology would be helpful.

International Research and Development Corporation offers its employees continued career opportunities through established career pathing and provides competitive compensation and benefits including an attractive investment and stock ownership plan.

Please direct your inquiries with confidential résumé and salary history to:

C. Spencer Streett, V.M.D.

Director of Pathology

International Research and Development Corp.

500 North Main Street

Mattawan, MI 49071

Telephone: 616-668-3336

IRDC is an Equal Opportunity Employer.

VIROLOGIST. Department of Medical Microbiology and Immunology, University of Wisconsin, Madison. The Department of Medical Microbiology and Immunology invites applicants for a tenure-track position (12-month basis), at the **ASSISTANT PROFESSOR** level. The anticipated starting date is fall of 1991. Applicants must have a Ph.D. and/or M.D. and at least 2 years of relevant postdoctoral experience in virology.

Send curriculum vitae, the name and addresses of three references, and a statement describing present and future research interests, by 31 August 1990, to: **Dr. Donna Paulnock, Chair, Search Committee, Department of Medical Microbiology and Immunology, University of Wisconsin, Madison, WI 53706.** The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

The Primate Research Institute, New Mexico State University (NMSU), is looking for a **TOXICOLOGIST SPECIALIST.** Education qualifications: M.S. in toxicology, pharmacology, or biology. Prefer AALAS certification as L.A.T. or L.A.T.G. Experience: minimum of 5 years of experience with at least 2 years of experience in conducting GLP research. Benefits offered: group medical and hospital insurance, group life insurance, state educational retirement, workmen's compensation, annual and sick leave, and unemployment compensation. Salary: \$23,525 to \$35,297. Deadline for applications is 17 August 1990. *NMSU is an Affirmative Action/Equal Opportunity Employer. Offer of employment contingent upon verification of individual's eligibility of employment in the United States.* Send résumé, letter of interest, and names of two references to: **Karen Hancock, Primate Research Institute, P.O. Box 1027, Holloman AFB, NM 88330.**

MEETINGS

INTERNATIONAL CONFERENCE ON ELECTROPORATION AND ELECTROFUSION 28 TO 31 OCTOBER 1990 WOODS HOLE, MASSACHUSETTS

Topics include reviews of basic mechanisms, new technologies, and new applications for cell biology, molecular genetics, and biotechnology. Please contact: **Dr. Donald C. Chang, Marine Biological Laboratory, Woods Hole, MA 02543.** Telephone: 508-548-3705. FAX: 508-548-1327.

ADVANCES IN NEUTRON RADIATION BIOLOGY 5 TO 7 NOVEMBER 1990

A colloquium to identify the most important scientific questions yet to be addressed in the investigation of neutrons of various energies and their biological effects. Details and registration materials: **Walcoff and Associates, Department 864, 635 Slaters Lane, Suite 102, Alexandria, VA 22314.** Telephone: 703-684-5588; FAX: 703-548-0426.

AMERICAN ASSOCIATION FOR CANCER RESEARCH SPECIAL CONFERENCE ON CHROMOSOMAL AND GROWTH FACTOR ABNORMALITIES IN LEUKEMIA

14 to 18 October 1990, Chatham Bars Inn, Chatham (Cape Cod), Massachusetts. Supported by a generous grant from the General Motors Cancer Research Foundation. Organizers: Janet D. Rowley, Peter C. Nowell, Donald Metcalf, Leo Sachs. Scientific Program: Keynote Address: George Klein. Regulation of Normal and Leukemic Lymphoid Cells: William E. Paul, Tadamiu Kishimoto, Irving L. Weissman, Thomas A. Waldmann, Suzanne Cory. Genetic Analysis of Chromosomal Abnormalities in Lymphoid Neoplasms: Stanley Korsmeyer, Timothy McKeithan, Michael Cleary, Carlo M. Croce, Terry H. Rabbitts. Myeloid Growth Factors: Leo Sachs, Charles J. Sherr, Nicos Nicola, David W. Golde. Growth Factors in Myeloid Leukemia: Donald Metcalf, Constance J. Eaves, James D. Griffin, Joseph Lotem, Nicholas Gough, James Ihle, Cila Blatt, Jerry Adams, Roland Mertelsmann. Genetic Analysis of Chromosome Rearrangements in Myeloid Leukemia: Owen Witte, Gerard Grosveld, Janet D. Rowley, Michelle LeBeau. Integration and Summary: Peter C. Nowell, Michael B. Sporn, John Cairns. Information and Application Forms: **American Association for Cancer Research, Public Ledger Building, Suite 816, Sixth and Chestnut Streets, Philadelphia, PA 19106.** Telephone 215-440-9300. FAX: 215-440-9313.

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

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

MOLECULAR BIOLOGIST/IMMUNOLOGIST, Ph.D. (1986). Four years of postdoctoral experience. Experience in transgenic animals, PCR, cloning, sequencing. Seeking industrial/biotechnology position. **Box 82, SCIENCE.**

NEUROPHYSIOLOGIST, Ph.D. Twenty years of experience. Sensory electrophysiology (somatosensory, auditory, cerebellar), biomedical engineering, computer applications, simulation, modeling, neural networks, genetic algorithms. **Box 83, SCIENCE.**

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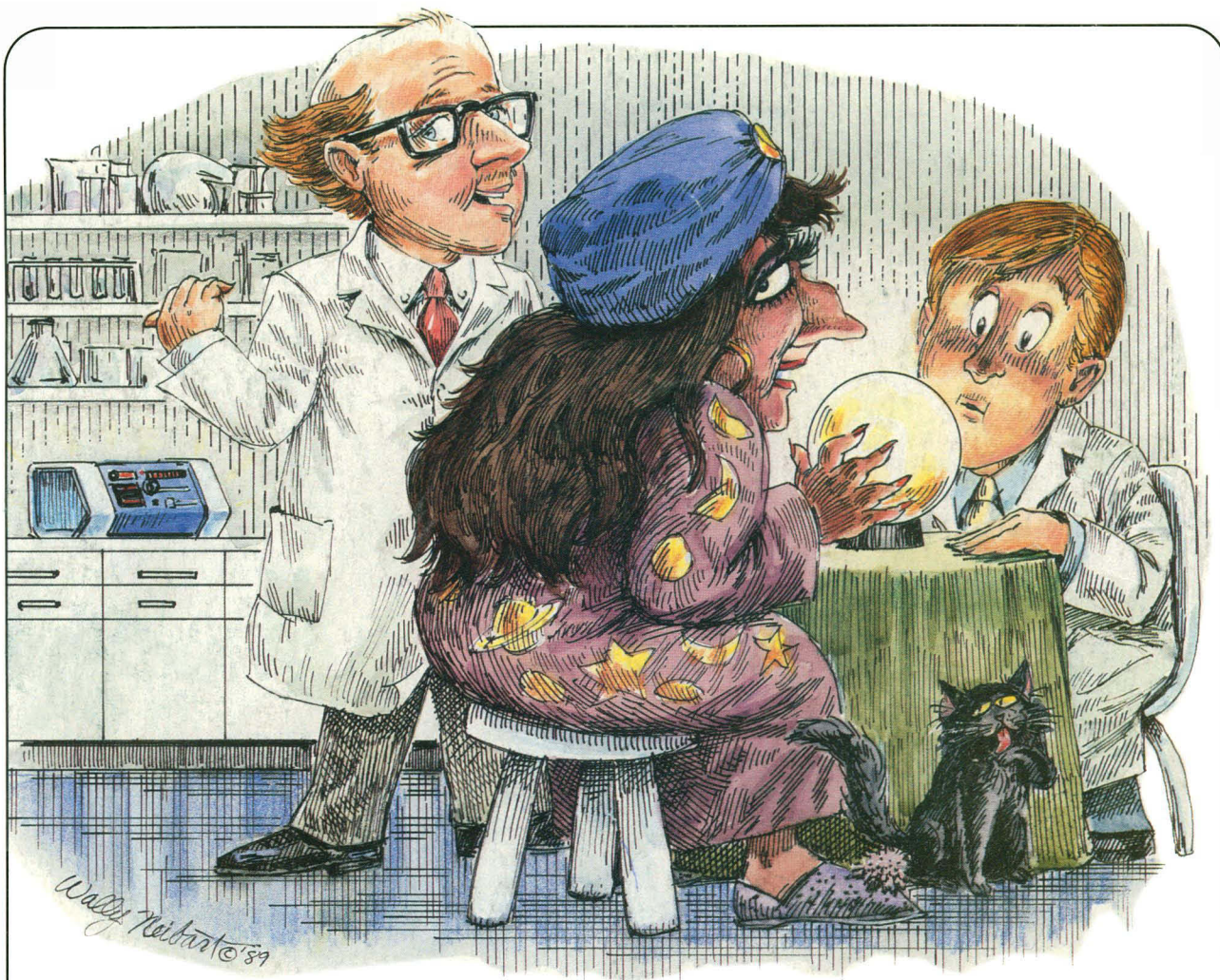
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