Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year, and three times a month. Advertisers must supply only the understanding that the advertiser does not discriminate among applicants on the basis of race, color, age, creed, sex, national origin, handicap, or sexual preference. SCIENCE reserve their right to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISEMENTS

DEADLINE: Thursday, 10 a.m., 2 weeks prior to issue date. Advertisements 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, Meetings and Announcements, and Marketplace. Advertisers should specify classification. A $3 ad charge is made to the person who requests the right to decline classification requests which it believes may be misleading.

RATE: $1.41 per line, $41.00 minimum. For single line equals 18 characters and spaces, 12 characters per line. No charge for use of blind box number. $1.00 agency commission for ads less than 40 lines. To ESTIMATE ad cost, structure ad copy on a 3-character by 3-character grid. Include any desired heading on 32-character lines. Each line of heading, one line of body text, and one line of address constitute an ad. All partial lines (including centered reply information, if desired) are charged as full lines. Multiply total number of lines by $1.41 = approximate cost of ad, per week. (This is an approximate method of determining ad space and should not be used for billing.)

PREPAYMENT DISCOUNT: A 3% cash discount is granted for prepayment of $500 or more 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 box rules. Logos are billed according to number of lines needed to accommodate logo.

SITUATIONS WANTED ADS: Ads are service to AAAS members in good standing. SCIENCE offers free place- ment of Situations Wanted ads for individuals seeking full-time positions. A blind box may be used. Ads must be submitted in writing with text of 20 words or less, not to exceed the space limitations, and are limited to three insertions per member in each calendar year. Include SCIENCE mailing label and mem- ber's AAAS membership number when submitting ad.

CANCELLATIONS: Deadline for cancellations is 10 a.m., 2 weeks 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: 202-326-0161

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:

Schroeder Associates, Inc.
1401 23rd St. NW, Suite 515
Washington, DC 20037
Telephone: 202-334-5100
FAX: 212-730-1050

RESPONSES TO EMPLOYMENT ADS

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

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

Box (give number)
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1333 H Street, NW, Room 940
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POSITIONS OPEN

ASSISTANT PROFESSOR

The Department of Food Science and Nutrition, University of Minnesota, seeks a food scientist for a 12-month, tenure-track position. A Ph.D. in food science, biochemistry, microbiology, or related field is required. Prefer primary interest in bio-technology, biochemistry, enzymology, microbiology, or immunology as evidenced by research experience. Research, teaching, and public service responsibilities will depend on expertise and interests of the candidate, and should include some aspect of cheese science. Advise undergraduate, M.S., and Ph.D. students. Candidates must have a commitment to teaching and research and be expected to earn extramural funding through externally funded research program. Postdoctoral or industry experience is preferred. By 1 September 1990, send curriculum vitae, publication list, statement of research interests, and names and addresses of at least three references to: Sue Harlander, Chair, Search and Screen Committee, Department of Food Science and Nutrition, University of Minnesota, 1334 Eddies Avenue, St. Paul, MN 55108. Appointment available 1 November 1990. The University of Minnesota is an Equal Opportunity Employer and especially invites and encourages applications from women and minorities.

THE PENNSYLVANIA STATE UNIVERSITY

BIOENGINEERING

ASSISTANT OR ASSOCIATE PROFESSOR of bioengineering (tenure track). Applications are sought from individuals with a Ph.D. in areas related to bioengineering and/or biomaterials. Ability to teach graduate level applied mechanics and established a research program to study the mechanical properties of tissues and blood at the cellular level, including such areas as the interaction of blood with natural and artificial surfaces, and cardiac or muscle mechanics. Postdoctoral experi- ence or a demonstrated ability to compete for extramural funding is desirable. Send curriculum vitae, statement of research goals, and names of three references to: Dr. Herbert H. Lipowsky, Bioengineering Program, The Pennsylvania State University, Materials Science and Engineering, University Park, PA 16802. An Equal Opportunity/Employer. Women and minorities are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSORS EMBRY UNIVERSITY

The Emory–Egleston Children’s Research Center, De- partment of Pediatrics, Emory University, is seeking qualified applicants for tenure-track appointments. On the assistant professor level, applicants should have a Ph.D., M.D., D.V.M., or equivalent. Applicants with postdoctoral training and will be expected to develop a strong, independent, fundable research program. On the asso- ciate professor or professor level, candidates should have a strong record of peer-reviewed research and research publications. Appointments will be made in each of several research areas:

Developmental research in cardiac physiology, cell biology, or biochemistry.

Developmental neuroscience.

Oncogenesis, with particular emphasis on leukemic growth factors or oncogene expression in brain tumor.

Interested persons should send curriculum vitae and three letters of recommendation to: George W. Brum- ley, M.D., Ph.D.—Egleston Children’s Research Cen- ter, Department of Pediatrics, 2040 Ridgewood Drive, N.E., Atlanta, GA 30322. Emory University is an Equal Opportunity/Afirmative Action Employer.

AUDITORY EVOKED RESPONSES, ADVANCED TECHNIQUES

A postdoctoral bioengi- neer and a Unix programmer needed to work on brain potential recording quality assurance, safety, extracranial boundary element methods to determine the effects of skull shape upon solutions determining dipole characteris- tics. Knowledge of Unix with names and telephone numbers of references, by 11 May 1990 to: Dr. Don L. Jewett, University of California, San Francisco, CA 94158-0728. FAX: 415-476-1304. The University of California, San Francisco, is an Equal Opportunity/Afirmative Action Employer.
POSITIONS OPEN

BIOLOGY/SCIENCE EDUCATION

The University of Missouri–Kansas City (UMKC) seeks applicants in science education for a 9-month, tenure-track position in the College of Arts and Sciences. The ASSISTANT PROFESSOR level with responsibilities to the Department of Biology (55%) and the School of Education (45%). Major responsibilities include teaching of undergraduate and/or graduate courses in biology and methods courses in natural science, supervision of secondary student teachers, conduct research, serve on graduate student committees, provide professional service to the campus and community. Ph.D. in biology required. Research/scientific publications in biology, science education, or both. Public school science preferred.

Applicants send a letter of application, including a statement of teaching and research goals, curriculum vitae, representations of publications, graduate transcripts, and arrange for the transmission of three current letters of recommendation to: Dr. Edward Underwood, Co-chair, Committee, Biology/Science Education, School of Education, UMKC, 8100 Rockhill Road, Kansas City, MO 64110–2499.

Review of applications will begin 1 May 1990 and continue until position is filled. The University of Missouri–Kansas City is an Equal Opportunity Employer.

ASSOCIATE EDITOR

We’re looking for a Ph.D. biochemist/molecular biologist with a broad range of interests and research experience in one or more of the following areas: signal transduction, intracellular molecular trafficking, or structural biophysics. Requirements include at least 2 or 3 years of postdoctoral experience and publications in the refereed literature.

Science editors have varied responsibilities in manuscript selection ranging from editing for clarity to soliciting papers. Previous editorial experience is not required. This is a full-time position in our Washington office.

Please send résumé and list of publications with cover letter and salary requirements to:

Mr. Gregory Stokes
AAAS
1333 H Street, N.W.
Washington, DC 20005

Equal Opportunity Employer.

CHEMISTRY

The University of Washington School of Pharmacy invites applications for the position of ASSOCIATE PROFESSOR level with responsibilities to the Department of Medicinal Chemistry. The University of Washington School of Pharmacy is a part of the University of Washington College of Pharmacy and School of Pharmaceutical Sciences.

Applicants must possess a Ph.D. in an area of medicinal chemistry or a closely related field and have a strong record of accomplishment in research and teaching. Familiarity with computational methods and structure–activity relationships is highly desirable. Responsibilities include teaching courses in medicinal chemistry, providing service to the department and university, and maintaining an active research program. This position is available in the Spring of 1991. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

APPLICATIONS should be submitted to:

Robert E. Altmann
Chairman of the Search Committee
School of Pharmacy
University of Washington
Seattle, WA 98195

Applications will be accepted until the position is filled. For further information, please contact Dr. Robert E. Altmann, Chairman, Search Committee.

Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ELECTRON MICROSCOPE LABORATORY

Applications are solicited for director of the Electron Microscope (EM) Facility of The Department of Biomedical Sciences. This is a career-track, nonfaculty, 12-month position; salary commensurate with qualifications and experience. Appointment begins 1 July or 1 September 1990. Qualifications: Ph.D. preferred, broad experience with EM techniques, involving a diversity of biological systems. Duties: (1) manage EM facility (two laboratories, two scanning and two transmission scopes, three darkrooms, supporting equipment), (2) conduct independent research and collaborate with faculty, and (3) instruct students and faculty in EM techniques. Send curriculum vitae, statement of professional interests, and three letters of recommendation to:

Chair, EM Search Committee
Department of Biomedical Sciences
University of Wisconsin–Milwaukee
Milwaukee, WI 53201

Application deadline is 1 June 1990.

The University of Wisconsin–Milwaukee is an Equal Opportunity/Affirmative Action Employer.

SUPERVISOR/ASSISTANT IN BIOCHEMISTRY

Supervise research team involved in the study of regional and whole body protein metabolic information in man, implementing fluorescent molecules, mass spectroscopic analysis, and computer-assisted metabolic modeling. Apply steady and nonsteady state tracer methodology in large animals and man using stable and radioactive isotopes and gas chromatography/mass spectrometry to develop suitable methodologies for use in man. Design and execute experimental models in various body compartments. Write research protocols and grants. Requirements include Ph.D. in biological sciences, 3 years of research experience with at least 2 years of pre- or postdoctoral research experience in the above areas. Must have thorough knowledge of physiology, animal surgical techniques, and mathematical modeling; demonstrated expertise in the theory, calibration methodologies, and operation of ratio and GC/MS spectrometers; large animal and human studies. Salary: $30,000, 40 hours per week. Respond with two copies of resume only to: Job Order #00395, Massachusetts Department of Employment and Training, Special Programs Department, 19 Staniford Street, Boston, MA 02114.

ENVIRONMENTAL SCIENTIST

The University of Wisconsin–Milwaukee, School of Pharmacy, invites applications for the position of ENVIRONMENTAL SCIENTIST. Applicants must possess a Ph.D. in environmental science, chemistry, or related area and have demonstrated expertise in environmental research and analysis. Responsibilities include conducting environmental research, writing technical reports, and preparing presentations. Salary: $22,000. Application deadline is May 15, 1990. Send letter of application, curriculum vitae, and three letters of reference to: Dr. Paul E. James, Chair, Search Committee, School of Pharmacy, University of Wisconsin–Milwaukee, Milwaukee, WI 53201. The University of Wisconsin–Milwaukee is an equal opportunity employer and is committed to diversity in the educational environment.

ENVIRONMENTAL SCIENCES PROGRAM DIRECTOR

Northern Arizona University is seeking an ENVIRONMENTAL SCIENCES PROGRAM DIRECTOR. Candidates with experience in and a commitment to excellence in teaching at the baccalaureate level are encouraged to apply. The successful candidate will be responsible for program planning, promotion, and evaluation. This is a 12-month, 100% appointment position. BA/BS degree required, higher degree preferred. Appointment begins July 1990. Working knowledge of computer literacy, bilingualism a plus. Salary is commensurate with experience and qualifications. Applications and nominations should be sent to: Dr. R.E. Crooks, Chair, Search Committee, Northern Arizona University, Flagstaff, AZ 86001.

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The Department of Biochemistry, Purdue University, is seeking a full-time tenure-eligible faculty member at either the ASSISTANT or ASSOCIATE PROFESSOR level. We wish to attract a scientist whose research interests complement those of our existing faculty and whose research interests focus on various aspects of macromolecular structure and function. Exceptionally good facilities are available at Purdue for such studies, and the new faculty member will assist with their operation and development. The area of specialization could focus on protein structure and function, the use of recombinant DNA approaches to study macromolecules and related area.

The person hired will participate in the teaching program of the department which encompasses undergraduate, graduate, and medical curricula.

We invite applications from candidates who have established a strong record of research accomplishments in postdoctoral positions. A curriculum vitae, names and addresses of three individuals who can supply letters of reference, and a two-page summary of research interests are required for an application. Screening of applicants will commence on July 1990 and continue until the position is filled.

Biochemistry Search Committee
Department of Biochemistry
Purdue University
West Lafayette, IN 47907-6799
Purdue University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN MICROBIOLOGY
RETROVIRAL MOLECULAR BIOLOGY
UNIVERSITY OF PENNSYLVANIA
SCHOLL OF MEDICINE

Applications are invited for a tenure-track position at any level in the Department of Microbiology. Candidates must have established research experience in the molecular biology of retroviral infections. Significant opportunities are available to collaborate with other investigators interested in animal and human retroviruses. The department has an established program in animal virology, prokaryotic genetics, and developing immunology groups. Candidates should have a doctoral degree and at least three years of postdoctoral experience. Please send: (i) curriculum vitae, (ii) names and addresses of at least three references, and (iii) a short summary of research interests to: James C. Alwine, Search Committee, Department of Microbiology, School of Medicine, University of Pennsylvania, Philadelphia, PA 19104-6076. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

SCRIPPS INSTITUTION OF CLINICAL MEDICINE
GRIFFITH INSTITUTE (GID)
FACULTY POSITION IN COASTAL STUDIES

SIO is seeking an outstanding scientist or engineer to fill a tenure or tenure-track professorial position, the rank and salary commensurate with qualifications and experience. SIO is located at the University of California, San Diego, and is involved in research and development in all aspects of oceanography. This position is expected to enhance our ability to support the university's mission and to enhance the interactions of our faculty with other faculty and students in the university. The University of California is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Chairman, Coastal Studies Search Committee
SIO Graduate Department A-008
Scripps Institution of Oceanography
University of California, San Diego
La Jolla, CA 92037

Applications must be received by 1 August 1990 to be considered.

An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION
FACULTY POSITION IN AGING RESEARCH

The Division of Geriatric Medicine of St. Louis University School of Medicine and the St. Louis Veterans Administration (VA) Medical Center invite applications for a full-time research position studying biochemical mechanisms of aging and age-related diseases. A Ph.D. required and molecular biology experience helpful, but specific research area is open. Division has ongoing research in neurodegenerative disease, osteoporosis, anorexia, diabetes, and carcinogenesis. Appointment will be at VA Medical Center with joint appointment in Division of Geriatric Medicine and other basic science department, as appropriate. Rank is open and will be commensurate with experience and funding record. To apply, send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. H. J. Abrams, Geriatric Center (111G-JB), St. Louis VA Medical Center, St. Louis, MO 63125. We are an Equal Opportunity/Affirmative Action Employer, M/F/H/V. Women and minorities are encouraged to apply.

FACULTY POSITION IN PSYCHOPHARMACOLOGY

The Department of Psychiatry of the School of Medicine, University of California, San Francisco (UCSF), is seeking applicants with established records of research in basic science of psychopharmacology or in the development of new medications. Candidates should have an M.D. degree and should be trained in both psychiatry and a laboratory science as demonstrated by a Ph.D. and/or post-doctoral postgraduate experience. In addition to a basic research role, the incumbent will be expected to participate in core teaching of medical students and residents and provide supervision to trainees on research electives. The position will be a tenure-track appointment in the School of Medicine at the ASSOCIATE PROFESSOR level. 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 1990, and applications should be received by 1 August 1990. Please send résumé to: Glen Elliott, Ph.D., M.D., Search Committee Chair, UCSF Department of Psychiatry, 401 Parnassus Avenue, Box P, San Francisco, CA 94143-0949. UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Applications are invited for an INSTRUCTOR level laboratory position in the Medical University of South Carolina Obstetrics/Gynecology Department. Successful candidate will have an M.S. degree preferably in biology and be well versed in radioimmunoassay and molecular biology techniques. Furthermore, the laboratory work involved with in vitro fertilization and embryo transfer program desirable, but not essential. Salary up to $27,000 per year. Send curriculum vitae and three letters of recommendation to: Rajesh Mathur, Ph.D., Professor, Department of Obstetrics and Gynecology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. Equal Opportunity Employer. Apply before 11 May 1990.

FACULTY POSITION IN CHEMISTRY

The Department of Chemistry at Brock University is seeking an Assistant Professor to begin July 1990. The successful candidate will be expected to establish a viable research programme in addition to carrying a normal teaching load. Although the department is actively recruiting in the areas of chemistry will be considered, but we are particularly interested in applications from those with a strong background in biochemistry or organic chemistry. The position is a 3-year term appointment. Extension of the appointment beyond the initial 3-year period cannot be guaranteed at this time, but several vacancies for tenure-track positions as a consequence of retirement are expected to occur in the mid-1990s. Brock University is an Equal Opportunity Employer. Qualified women and minority candidates are especially encouraged to apply.

Applications including a curriculum vitae, the names of three referees, and a detailed research plan should be sent as soon as possible. Candidates can expedite matters by having referees write the department directly.

According to the Canadian Human Rights Act, this advertisement is directed in the first instance to Canadian citizens and permanent residents of Canada.

Applications will be accepted until the position is filled. Dr. Mary Frances Richardson, Search Committee Coordinator, Department of Chemistry, Brock University, St. Catharines, Ontario L2S 3A1, Canada. Smocking at Brock University is unconditionally and

FACULTY POSITION
MATERNAL/INFANT MEDICINE

The Department of Obstetrics and Gynecology at the University of Tennessee College of Medicine is actively recruiting a full-time PERINATOLOGIST for its Division of Maternal/Fetal Medicine. The teaching hospital serves as the Tertiary Care Center for 80 counties in West Tennessee, East Arkansas, North Mississippi, South Missouri, and a part of Kentucky; an area with approximately 40,000 deliveries per year. About 50% of the pregnancies delivered in the area are high-risk pregnancies. Perinatal services each year include over 20,000 outpatient visits, 7,800 deliveries, and over 1,400 patients seen in Reproductive Genetics. Excellent opportunity to participate in teaching in a Board-approved fellowship program and collaborate in ongoing research in clinical perinatology, critical care in obstetrics, and ultrasound and prenatal diagnosis. Board eligibility/certification in maternal/fetal medicine is required. Interested candidates should send curriculum vitae to: Baha M. Sibai, M.D., Division of Maternal Medicine, University of Tennessee, Memphis, 853 Jefferson Avenue, Room E 102, Memphis, TN 38103. Telephone: 901-528-2800. Fax: 901-278-4519. University is an Equal Employment Opportunity/Affirmative Action/Title IX/Section 504 Employer.

FACULTY POSITION
MICROBIOLOGY

Scholl College of Podiatric Medicine invites applications for a full-time microbiology faculty position in the Department of Physiological Sciences. This addition to our faculty must have a Ph.D. in microbiology, postdoctoral research, and teaching experience. Major responsibilities will include the design and instruction of a comprehensive course in medical microbiology, including laboratories, for second year medical students. The successful candidate will also participate in our newly created research program and will interact with our clinicians regarding infectious diseases and clinical microbiology. If our vision of higher education matches your professional achievements, we offer excellent benefits, faculty rank, and salary commensurate with experience. This position is available 1 July 1990. Qualified applicants should submit a letter of application, curriculum vitae, official transcripts of all graduate and undergraduate training, and three letters of recommendation by 15 May 1990 to:

Dr. Sandra Lee
Chairman, Department of Physiological Sciences
Scholl College of Podiatric Medicine
1001 North Washington Street
Chicago, IL 60610

Scholl College of Podiatric Medicine is an Equal Opportunity Employer.

SCIENCE, VOL. 248
The Director of the Princeton Plasma Physics Laboratory is the Laboratory's Chief Executive Officer, responsible for providing scientific and administrative leadership for the Laboratory's research and development programs in thermonuclear fusion. The Laboratory employs approximately 780 persons, including 110 scientists, 175 engineers, 300 technicians, and 205 administrative and support staff members. The annual operating budget currently is in excess of $80,000,000.

The Plasma Physics Laboratory is a research and development activity funded principally by the United States Department of Energy. The Director reports to the Provost of Princeton University, and is the University Officer responsible for establishing and carrying out the Laboratory's scientific program, which is developed in close consultation with and approved by the Department of Energy as part of the National Fusion Program. In addition to the primary responsibility in relation to the fusion program, the Director is also responsible for coordination and liaison with appropriate academic departments and programs within the University.

Requirements for the position include demonstrated successful executive leadership in managing research and development programs and a record of exceptional scientific achievement in either the field of plasma physics or a related field.

Nominations and applications (including resume) should be sent to: PROVOST PAUL BENACERRAF, PRINCETON UNIVERSITY, POST OFFICE BOX 7106, PRINCETON, NEW JERSEY, 08543-7106

Wyeth-Ayerst Laboratories

Committed to future growth and excellence in the pharmaceutical industry.

Wyeth-Ayerst Research, one of the world's largest pharmaceutical research and development groups, has made a major corporate commitment to expansion within our Clinical Research & Development Division. Now is your time to become part of our fast-paced, innovative global research organization in the following disciplines:

**Clinical Scientist II** - To conduct clinical investigational trials including reviewing preclinical/clinical data, maintaining documentation and evaluating results. Requirements include a Bachelor's degree or Master's degree with relevant experience and the ability to solve complex problems.

**Regional Clinical Assistants/Associates** - Nationwide Opportunities. To assist clinical directors in monitoring Phase I-IV clinical trials. Requirements include a medically allied Bachelor's degree, 2-3 years experience monitoring clinical trials and knowledge of FDA regulations. If your goals match our commitment, we want to talk with you about advancing tomorrow's state-of-the-art in our challenging, progressive environment. We offer a competitive salary and benefits package that are among the best in the industry. For confidential consideration, forward your resume with salary requirements to: Wyeth-Ayerst Research Personnel, P.O. Box 8299, Philadelphia, PA 19101. Equal Opportunity Employer, M/F/H/V responses encouraged.
Inflammation and Molecular Biology

To develop innovative new therapies for today's complex medical problems, Syntex relies on research that combines the vision of a talented scientific team with the state-of-the-art drug discovery and evaluation techniques. Exciting career challenges and opportunities for personal scientific attainment await talented, energetic, and motivated scientists at our headquarter sites and main research facilities in the San Francisco Bay Area. We invite the following qualified specialists to become part of our research efforts.

Research Section Leader-Inflammation Biology

Direct drug discovery projects in inflammation research in the areas of phospholipases and eicosanoids metabolism, kinin receptors and tissue proteases. A PhD in Biochemistry or related field, plus at least 6 years of direct research experience which has included some supervision of personnel.

Molecular Virologist-Molecular Biology

Identify essential gene products of herpes viruses that may be potential targets for antiviral chemotherapy. Determine function(s) of these essential gene products at the molecular level to establish high throughput reporter gene assays for potential inhibitors. A PhD in Molecular Virology related field, 2 to 3 years of postdoctoral training with herpes viruses plus recent experience with tissue cultures, cloning, growth of viruses and gene expression are required.

As an international leader in the pharmaceutical industry, Syntex offers competitive salaries, an incentive bonus plan and a comprehensive relocation package. For immediate consideration, please send your resume to: Syntex, Staffing, Dept. K/HU 427, 3401 Hillview Avenue, Palo Alto, CA 94304. Syntex is an Equal Opportunity Employer.

Diagnostic Research

Roche Diagnostic Systems, a subsidiary of Hoffmann-La Roche Inc., has several research opportunities in the areas of Clinical Chemistry and Drugs of Abuse.

Clinical Chemistry

Section Manager/Group Leader: You will spearhead the development of reagents for a new analyzer, and manage a group of professionals including several Ph.D.s. Qualifications include a PhD in Chemistry or Biochemistry, experience in the diagnostic industry and a managerial background.

Additional openings also exist at the PhD, MS and BS levels.

Drugs of Abuse

We have 2 opportunities for individuals with a PhD in Chemistry, Biochemistry or Biochemical Engineering and a good publication record. Familiarity with immunossays, development/technologies in an industrial setting an asset.

One position will involve the research and development of new in vitro immunoassay products; the other will research and evaluate new in vitro diagnostic technologies.

We offer competitive salaries, a generous benefits package and a state-of-the-art environment that affords scientific growth. For consideration, please send your resume with present salary (those without this information will not be acknowledged), indicating position and department of interest, to: Mrs. Eleanor M. Malone, Department DRH, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

Roche Diagnostic Systems

a subsidiary of Hoffmann-La Roche Inc.

Positions Open

Farm Adviser. Groundwater Toxicology, Santa Clara, Alameda, Contra Costa, and San Mateo counties; headquarters: Santa Clara County. The University of California (UC), Division of Agriculture and Natural Resources (UCANR), Cooperative Extension (CE), is seeking a career-track faculty candidate to develop, conduct, and evaluate educational/applied research programs to address specific, identified problems within groundwater hydrology, groundwater contamination, and toxic materials for the residents of the southern San Francisco Bay Area. Assure Affirmative Action in development and delivery of programs. Minimum: A doctorate in natural resources or an equivalent combination of education and experience in field related to groundwater hydrology, soil/water science, and/or sub-surface contamination required. Demonstrate leadership, course work or field experience, training in toxicology preferred. Course work or experience in agricultural science, knowledge of CE policies and procedures, good teaching ability, and computer literacy desirable. Ability to communicate well in public speaking and writing required. Beginning salary: Range $43,000-50,000, rank re-confirmed annually. For full position description and procedure to apply, contact: UC, CEANR, Personnel, 6th Floor, 300 Lakeside Drive, Oakland, CA 94612-3560. Telephone: 415-987-0088. Closes 13 June 1990. Refer to #A-90-028. Affirmative Action/Equal Opportunity Employer, M/F/H.

Skin Cancer Geneticist. We are seeking an individual with experience in skin cancer research with animals to establish a new laboratory in our Department of Genetics. The successful candidate will be expected to develop a strong independent research program on UV-induced skin cancer and to collaborate with members of our laboratories of molecular genetics, biochemical genetics, immunogenetics, population genetics, quantitative genetics, and cell biology. This position will be a critical component of a major new research initiative involving our pedigreed colony of 1200 Mmndophlls domestica, which is a unique model for UV-induced melanoma. Research with rodents, human subjects, and our pedigreed colony of 3200 baboons also is possible. An academic affiliation also may be possible. Salary range for this position will be commensurate with experience. This is an excellent opportunity for a creative scientist to have a leadership role in an expanding genetics department. Mail résumé, statement of research interests, and names, addresses, and telephone numbers of three references to: Personnel Director (001), Southwest Foundation for Biomedical Research, P.O. Box 2817, San Antonio, TX 78228-0147. Equal Opportunity Employer, M/F.

Materials Scientist. For a university in southwestern Ohio. Individual will conduct independent research on the use of graphite, rigid rod polymeric molecular composites, and other fibers in advanced polymer composites, including: (i) the processing of molecular composites in filament form, (ii) fiber-matrix interfacial modification via different techniques, including electrodeposition of polymers onto graphite fibers, (iii) evaluation of interfacial bond strength from fiber fragmentation within single-fiber composites; (iv) fabrication of prepregs and composite panels, and mechanical characterization of the latter; and (v) analysis of composite failure modes and loic via scanning electron microscopy, fractomission, and other analytical techniques. Requires Ph.D. in materials or engineering science, with doctoral level research experience in the field of polymeric composites, demonstrated by a doctoral thesis in this area. Research experience is required in the following specific areas with a minimum of 2 years at the postdoctoral level: (i) electrodeposition of polymers onto graphite fibers, and the fabrication, mechanical characterization, and failure analysis of the corresponding epoxy composites; (ii) evaluation of fiber-matrix interfacial bond strength from single-fiber composite test specimens including specimen preparation and testing, and statistical analysis of the data; (iii) use of microtomography to determine the location and mode of failure in advanced composites; and (iv) processing and mechanical and microstructural characterization of molecular composites made from rigid rod and flexible-coil polymers. Must have at least one publication in each of the above-mentioned areas, as proof of experimental and theoretical capabilities. Four hours per week, 7:45 a.m. to 4:30 p.m., $44,100 per year. Must have proof of legal authority to work permanently in the United States. Send résumé in duplicate (no calls) to: J. Davies, JIO#123972, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.
The Merrell Dow Research Institute
Distinguished Discoveries, Distinctive Careers

In cardiovascular diseases, CNS pharmacology, tumor biology, inflammatory diseases and metabolic diseases, we are advancing the state of the science through Research Discoveries in Drug Development and Medical Research. Work with other eminent scientists at Merrell Dow in a creative environment which encourages original research, publications and collaborations. The new facilities are well equipped with state-of-the-art technology. Challenging opportunities are currently available for the following:

**SENIOR RESEARCH SCIENTISTS IN DIABETES RESEARCH**

Merrell Dow Research Institute is expanding its diabetes research group and has an opening for a Ph.D. with 2-5 years of research experience beyond the Ph.D. degree. Preference will be given to candidates with expertise in one of the following areas, although outstanding candidates with interests in other areas of diabetes are encouraged to apply:

1. Biochemical pharmacologist with an interest in intermediary metabolism, especially lipid or carbohydrate metabolism. The person will be expected to contribute significantly toward understanding the mechanism of action of novel antidiabetic compounds. The individual should be capable of initiating an independent research effort toward a better understanding of metabolic abnormalities in diabetes.

2. Endocrinologist with research experience in any area of endocrinology relevant to the discovery of new therapeutic approaches to treating or preventing diabetes. Individuals with an interest in pancreatic islet hormone interactions, influence of hormones on carbohydrate and lipid metabolism or gastrointestinal/neural hormones that may affect energy metabolism are particularly encouraged to apply. (Job Code KMR)

**SENIOR RESEARCH MOLECULAR BIOLOGIST—NEUROBIOLOGY**

This individual should be skilled in the use of molecular cloning techniques to investigate the function and regulation of specific proteins and receptors. The successful candidate will complement the research in cell biology, and the primary goal is to discover new therapeutic targets. The minimum qualification is postdoctoral training with 2-5 years experience in molecular biology and neurobiology. The person must be familiar with the construction of vectors conferring control of gene expression, transfection techniques for establishing both transient and stable cell lines and hands on experience in site-directed mutagenesis and construction of hybrid genes. (Job Code RMP)

**BEHAVIOR/NEURO-PHARMACOLOGIST**

We have a challenging opportunity for a behavioral pharmacologist to join our expanding CNS Research group. The successful candidate would join a multi-disciplinary group and be expected to contribute actively to both basic research and drug discovery programs directed toward new therapeutic approaches for CNS disorders. Qualified applicants should have a Ph.D. in Pharmacology/Neuroscience with 1-3 years postdoctoral experience in behavioral models relevant to the discovery and development of new modalities for affective and/or psychotic conditions. He/she should have practical experience working with defined neuronal pathways and neurotransmitter systems, be experienced with using state-of-the-art behavioral equipment, and show clear evidence of familiarity with these areas of expertise by scientific publications. The Institute offers an environment conducive to creative research, expects the highest caliber of science and encourages publication of scientific findings. (Job Code MGP)

**DRUG DEVELOPMENT**

We have an immediate opening in Program Management (Scientific Integration) for M.S./Ph.D. level individuals. Candidates should have a strong background in pharmacology or biochemistry. Additional experience in the drug development process, such as clinical research or regulatory affairs is strongly desired.

The primary responsibility of the successful candidate will be the preparation and updating of Clinical Investigator’s Brochures for compounds in Phases I, II, and III of development and participation in all aspects relating to the preparation of New Drug Applications. Additional responsibilities will include authoring of position papers and other scientific summary documents. Demonstrated communications skills, both written and verbal, are an absolute necessity. (Job Code LER)

We offer excellent compensation, comprehensive benefits including relocation assistance, and the opportunity to contribute significantly to our ongoing achievement.

To find out more about your advantages with Merck, please send your resume, indicating position of interest and the job code to: Director of Human Resources.

**MERRELL DOW RESEARCH INSTITUTE**

2110 East Galbraith Road

Cincinnati, OH 45215

Equal Opportunity Employer M/F/V

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UNIVERSITY OF NEW ENGLAND MEDICAL BIOLOGY

The Department of Life Sciences at the University of New England invites applications for a tenure-track ASSISTANT PROFESSOR. Areas of interest/expertise must include genetics, cell biology, and general or human physiology.

The position supports undergraduate programs in medical biology, premedicine, general biology, marine biology, environmental science, and environmental studies.

The Department of Life Sciences is reforming its curriculum to emphasize interdisciplinary, integrative approaches to research and teaching. We also endeavor to encourage students to be active as opposed to passive learners. Applicants must document strong interest/experience with interdisciplinarity.

Please submit a résumé and statement of teaching philosophy by 18 May 1990 to: Michael Miles, Director of Placement, University of New England, Biddeford, ME 04005.

The University of New England is an Affirmative Action/Equal Opportunity Employer and actively seeks applications from women and minorities.

**MOLECULAR GENETICIST/PSYCHOPHARMACOLOGIST**

Mayo Clinic/Mayo Medical School invites applicants for a FACULTY POSITION in the Department of Psychiatry and Psychology, in close collaboration with members of the Department of Pharmacology and the Department of Biochemistry and Molecular Biology. Candidates should have primary interests in major psychiatric disorders and be pursuing these interests and the methods of molecular genetics and/or molecular pharmacology, M.D. and clinical training in psychiatry are desirable but not required. Mayo will provide generous space and start-up funds in addition to an attractive package of salary and benefits. Academic rank will be determined by qualifications; established investigators are also encouraged to apply. Submit curriculum vitae with names and addresses of three or more references to: Yoshikazu Murata, M.D., Chairperson of Search Committee, Department of Psychiatry and Psychology, Mayo Medical School, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.

**MOLECULAR NEUROBIOLOGY POSITIONS FOR SENIOR, STAFF, AND FOREIGN FELLOWS**

The Laboratory of Molecular Neurobiology, National Institute for Drug Abuse (NIDA)/Addiction Research Center (ARC), wishes to enhance efforts in: (i) cloning drug and neurotransmitter receptors, (ii) characterizing neurotransmitter gene expression to transgenic mice, and (iii) understanding mechanisms of neurotransmitter gene regulation in brain. Approaches include: Xenopus oocyte expression and sib selection of cDNAs, transgenic mice, protein purification and antibody production, and lipid binding. Salary and benefits are competitive. Applicants with expertise and interests in molecular biology, molecular neurobiology, Xenopus expression systems, and behavioral, biochemical, and genetic characterization transgenic animals are encouraged to apply to:

George R. Uhl, M.D., Ph.D.
Lab of Molecular Neurobiology
NIDA/ARC
5180
Baltimore, MD 21224

The ARC is an Equal Opportunity/Affirmative Action Employer, M/F/H/V. ADAMA is smoke free.

**PROTEIN CHEMIST**

Biotechnology branch is seeking a qualified Ph.D. level scientist to join a multidisciplinary research team. The salary range is from $24,600 to $55,000 depending upon background and experience. The successful candidate will have a strong background in protein synthesis, sequencing, characterization, and purification. Candidates with a background in NMR, x-ray crystallography, and molecular modeling would be particularly well suited. For consideration, please send curriculum vitae and references to: Dr. David Kaplan, U.S. Army Natick Research, Development and Engineering Center, Attention: STRN-CMT, Natick, MA 01760-5020. U.S. citizenship is required. Equal Opportunity Employer.

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Re: Merrell Dow Research Institute

27 APRIL 1990
WANTED:

State Department of Health Services (DHS) is recruiting for Research Scientists I, II, III, & IV for civil service examination. Minimum qualifications start with graduation from college and one year postgraduate education in a field relevant to environmental epidemiology or public health environmental biochemistry to possession of doctoral degree and four years of professional research experience in a field of medical specialization relevant to environmental epidemiology (for Research Scientist IV). If interested, please send your resume to the Department of Health Service, Health Hazard Assessment Division, 714 P Street, Room 460, Sacramento, CA 95814, ATTN: Donna Rowe.

MOLECULAR RETROVIROLOGY

Applications are invited for a tenure-track position at the ASSISTANT OR ASSOCIATE PROFESSOR level in retrovirology at The Johns Hopkins University (JHU) School of Hygiene and Public Health. The Johns Hopkins medical institutions have a broad research program in the epidemiology, virology, immunology, pathogenesis, and treatment of HIV infection. The successful applicant will be a creative scientist who will be expected to establish an independent research program in the molecular aspects of HIV pathogenesis. New laboratories and extensive opportunities for collaboration are available. Women and members of minority groups are encouraged to apply. Interested candidates should submit curriculum vitae, description of research goals, and names of three references to: Dr. Gordon Ada, Department of Immunology and Infectious Diseases, JHU School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, MD 21205. JHU is an Affirmative Action/Equal Opportunity Employer.

NUCLEIC ACID CHEMISTS

Applications are invited from synthetic organi- c chemists to join our group in the antisense chemotherapy field. We are seeking two self-motivated, team-oriented individuals to develop approaches to chemical synthesis of oli- gonucleotides and their novel analogues suitable for viral infection or regulation of gene expres- sion. A Ph.D. in organic chemistry/biochemistry with related experience is desirable. A strong background in synthetic nucleic acid chemistry and allied analytical techniques are required. Inquiries can be made to: Dr. Paul Zamecnik or Dr. Sudhir Agrawal either by telephone: 508- 842-8921, or by letter with curriculum vitae addressed to: Worcester Foundation for Ex- perimental Biology, c/o Personnel Office, 222 Maple Avenue, Shrewsbury, MA 01545.

An Equal Opportunity/ Affirmative Action Employer, M/F/V/H.

MOLECULAR PHYSIOLOGIST

The University of Michigan, Department of Physiolo- gy, invites applications for a tenure-track position at the ASSISTANT/ASSOCIATE PROFESSOR level. We seek a person applying molecular biology to the study of physiological processes. We are especially interested in individuals studying the nervous system but will consider outstanding individuals carrying out research related to any area of physiology. Newly remod- eled space, core facilities, and an attractive start-up package are available. Candidates should have a Ph.D., M.D., or equivalent degree and a minimum of 2 years of postdoctoral experience. The successful candidate is ex- pected to develop an independent research program and participate in graduate and teaching pro- grams of the department. Applications, including curricu- lum vitae, description of research interests, plans for future research, and names of three references should be sent to: Dr. John A. Williams, M.D., Ph.D., Professor and Chairman, Department of Physiology, 7744 Medical Science II, University of Michigan, Ann Arbor, MI 48109-0622. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE

(Ph.D. or M.D.) To study the role of the structure on major histocompatibility complex I proteins in antigen recognition by T cells. Opportunities exist to learn the techniques of molecular biology, protein chemistry, and cellular immunology, as well as to develop an indepen- dent research program. Applications to: Dr. Jeffrey Telfer, Department of Microbiology and Immunology, Uni- versity of North Carolina at Chapel Hill, CB7290 804 FLOB, Chapel Hill, NC 27599. The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Computational modeling of ligand-receptor interactions, with applications in molecular immunology and vaccine design. Strong mathematical and computer skills required. Experience in molecular immunology or com- putational immunology desirable but not essential. One- to three-year position available (pending funding), to begin July or September 1990. Send curriculum vitae including publication list and up to three references to: Dr. Jay Banks, Department of Biomedical Engineering, Boston University, 44 Cummington Street, Bos- ton, MA 02215.

Boston University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

A postdoctoral position is available immediately and through December 1990 to study regulation of zygotic gene activation in the mouse embryo and the continued identification, characterization, and functional analysis of a stage-specific zygotic gene product. Experience in molecular biology is desirable. Send curriculum vitae and names of three references to: Dr. Richard Schultz, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104. Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTISTS

HUMAN SYSTEMS PHYSIOLOGIST. North- east Missouri State University (NMSU) has an opening for a VISITING ASSISTANT PROFESSOR (non- tenure track), starting August 1990, in human/systems physiology. Initial appointment is for 1 year with possi- bility of renewal. Teaching and research responsibilities will include anatomy and physiology and introductory biology for nonmajors (fall) and pathophysiology and introductory biology (spring). Teaching and research are mutually supportive activities at NMSU, thus the successful can- didate must be committed to teaching and will be given the opportunity to involve undergraduates and M.S. students in active research programs. The mission of NMSU, the state’s liberal arts and sciences university, is to provide an outstanding educational environment to a select student body while maintaining a liberal education and research focus. Applicants are encouraged to apply. Please send letter indicating teaching and research goals, curriculum vitae, undergraduate and graduate tran- scripts, and three letters of recommendation to: Dr. Michael G. Tannenbaum, Division of Science, NMSU, Kirksville, MO 63501-7705. Applications received by January 15, 1990 will be reviewed. NMSU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

University of Kentucky, Department of Physiolo- gy and Developmental Biology, offers two POSTDOCTORAL POSITIONS. Available immediately to study conformation of carcinogen-modi- fied DNA using 2D NMR and other techniques and to explore the types of mutations induced by chemical carcinogens or radiation at the DNA level. Candidates should have a Ph.D. degree and some experience in the areas mentioned. Send curriculum vitae and two letters of reference to: Dr. D. Grunberger, Institute of Cancer Research, Columbia University College of Physicians and Surgeons, 701 West 168th Street, New York, NY 10032. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

A postdoctoral position is available immediately and through December 1990 to study regulation of zygotic gene activation in the mouse embryo and the continued identification, characterization, and functional analysis of a stage-specific zygotic gene product. Experience in molecular biology is desirable. Send curriculum vitae and names of three references to Dr. Richard Schultz, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104. Equal Opportunity/Affirmative Action Employer.

SCIENCE, VOL. 248
Research Scientist
Pharmacokinetics

American Cyanamid's Medical Research Division is currently seeking a Research Scientist to become part of a research and development team in Pharmacokinetics.

The successful candidate will design, conduct, analyze and report pharmacokinetic and pharmacodynamic studies essential to the registration of new drug entities. Your responsibilities will include the establishment of appropriate in vitro and in vivo models, and coordination of research activities with other areas of the Medical Research Division.

A Ph. D. (or equivalent), training in pharmacokinetics, and two to four years' experience are required. Excellent oral and written communication skills are also essential.

Located at the Lederle Laboratories campus of American Cyanamid in Pearl River, New York, just 20 miles north of New York City, you will enjoy a competitive salary and liberal fringe benefits, including a 401k savings plan. For consideration, we invite you to submit your resume with salary history, in confidence, to: Professional Employment Office, Dept. J.K., Lederle Laboratories, N. Middletown Road, Pearl River, NY 10965. An Equal Opportunity Employer m/f.

Lederle

Postdoctoral Researcher

Genentech, Inc., a leader in the field of biotechnology, has an immediate opening for a Postdoctoral Researcher in our Developmental Biology department.

The successful candidate will join a group involved in developing cancer therapeutics based upon the role of receptor tyrosine kinases and other receptor types involved in aggressive malignancies. This work will involve molecular and cellular biology and may include work with relevant animal models.

Qualified candidates must have a relevant Ph.D. experience in molecular and cellular biology as well as the biology of receptors. The ideal candidate will also have an avid interest in cancer therapeutics.

Genentech offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. To apply, please send your resume to Ginny Liljefelt, Human Resources Dept., Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment. Women and minorities are encouraged to apply.

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Ultra/Microfiltration Product Marketing Specialist

Accelerated growth at Supelco, Inc., a leading manufacturer of separation products, has created an immediate need for an ultra/microfiltration product marketing specialist. You must be able to develop and coordinate a marketing plan for our current products, and expand our product line into other areas of the microfiltration and membrane technology markets. To do this, you should have a good working knowledge of filtration, as well as those industries using ultra/microfiltration. A degree in chemistry or related science is required — plus at least two years of hands-on marketing experience and excellent communication skills.

We can offer you a professional environment in scenic central Pennsylvania (far from the rat race, but near Penn State University), plus an attractive salary and excellent benefits (including profit sharing and 401K plan). If you qualify, please send resume and salary requirements to:

Personnel Dept.
Supelco, Inc.
Supelco Park
Bellefonte, PA 16823-0048

An Equal Opportunity Employer

U.S. Public Health Service
National Institutes of Health
Division of Cancer Treatment
Developmental Therapeutics Program
Laboratory of Biological Chemistry

POST-DOCTORAL FELLOW
($25,000 - $28,000)

Position involves studies of the expression, post-translational modification and functions of specific HIV-I encoded and 20-25 KDa GTP binding proteins.

Candidates must have Ph.D. in molecular biology, biochemistry, microbiology or pharmacology. Experience in molecular biology or biochemistry desirable but not essential. Candidates may have no more than three years of post-doctoral experience.

For information, contact:

Dr. Richard Kahn
National Cancer Institute
National Institutes of Health
Building 37, Room 5D-09
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-4116

U.S. Citizenship Not Required
NIH is an Equal Opportunity Employer
POSTDOCTORAL POSITION available immediately to study and characterize specific roles of protein domains involved in responses of leukocytes to bacterial lipopolysaccharide. Experience in cell biology preferred. Send curriculum vitae and names of references to: Dr. Robert W. Waksman, The Rockefeller University, 1230 York Avenue, New York, NY 10021.

POSTDOCTORAL POSITION available immediately to study and characterize specific roles of protein domains involved in responses of leukocytes to bacterial lipopolysaccharide. Experience in cell biology preferred. Send curriculum vitae and names of references to: Dr. Robert W. Waksman, The Rockefeller University, 1230 York Avenue, New York, NY 10021.

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International Biotechnology, Inc., a Subsidiary of Eastman Kodak Company and a leading developer of microcomputer software for the molecular biology community, is seeking a highly motivated Macintosh programmer to join an expanding development team.

Responsibilities of this junior-level position include the enhancement of our existing sequence analysis software, MacVector, as well as participation in the identification and development of exciting new applications.

The successful candidate will have a strong programming background with at least one year of applied programming experience on the Macintosh using the THINK C environment. In addition, the candidate will have a working knowledge of biology, with emphasis in molecular biology.

IBI offers a fast-paced, challenging work environment and a competitive compensation program. For confidential consideration, please send your resume and salary history to the attention of Software Product Development. IBI is an equal opportunity employer.

INTERNATIONAL BIOTECHNOLOGIES, INC.
Subsidiary of Eastman Kodak Company
P.O. Box 9568, New Haven, CT 06535

The National Institutes of Health (NIH) invites nominations and applications for the position of Director, Division of Planning and Evaluation, Office of Science Policy and Legislation, Office of the Director. This is a Civil Service position in the Senior Executive Service (SES), with a salary ranging from the ES-1 to ES-4 pay level per annum. A one-year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

The Director, Division of Planning and Evaluation, plans and conducts a comprehensive program of policy research, evaluation, economic and resource analyses, and program planning activities for NIH. Advises the Director, NIH, and staff on program planning issues and policies, and on evaluation of the programs of the operating organizations of NIH; and carries out staff functions relating to program development, policy research, economic and resource analysis, and program evaluation.

For more information, contact Dr. Paul Thibault at (301) 496-2400. The following forms are required: Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography. These must be submitted to:

Dr. Paul G. Thibault
National Institutes of Health
Office of the Director
Personnel Office
Building 31, Room 1C-27
900 Rockville Pike
Bethesda, Maryland 20892

APPLICATIONS MUST BE RECEIVED NO LATER THAN MAY 14, 1990.

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

THE JACKSON LABORATORY
Bar Harbor, ME USA 04609

THE JACKSON LABORATORY is an independent research institution having a major emphasis on mammalian genetics, developmental biology, immunology, and cancer. Most investigators utilize murine model systems. The Laboratory is undertaking an expansion of its research staff at all levels. Excellent candidates in all areas of research appropriate for The Jackson Laboratory are sought, including those candidates whose programs focus on the study of the whole organism as an integrated system, and in the areas of mammalian genetics, developmental biology, immunogenetics, endocrinology, reproductive biology, hematology, neurobiology, or cancer. Applicants should send curriculum vitae, description of research interests, and the names of three professional references to:

Dr. John Eppig
Chair, Search Committee
600 Main Street
Bar Harbor, ME USA 04609

The Jackson Laboratory is an Affirmative Action/Equal Opportunity Employer.
POSITONS OPEN

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE

Positions are now available to study the structure, function, and regulation of the cardiac gap junction protein using an oocyte translation system, biochemical, and molecular approaches. The laboratory is part of a highly interactive, multidisciplinary NIH-funded research program under the direction of Dr. Jose Jalife, Chairman, Department of Pharmacology. Experience in protein biochemistry and molecular biology is preferred. Send curriculum vitae and three letters of reference to: Dr. Mary Lou Vallano, Department of Pharmacology, University of New York (SUNY) Health Science Center at Syracuse, 766 Irving Avenue, Syracuse, NY 13210.

SUNY Health Science Center at Syracuse is an Equal Opportunity/Affirmative Action Employer.

Applicants with a Ph.D. in molecular biology with postdoctoral experience/master's degree in biology or biochemistry with at least 5 years of laboratory experience in protein chemistry and/or molecular DNA cloning and manipulation techniques are requested to apply for this RESEARCH ASSOCIATE position. The individual will be working as part of a research group focusing on developmental neuroendocrinology and will be involved in cloning and characterizing the genes of other laboratories, clinical fellows, and students and will be involved in performing certain tasks and carrying out part of their projects. Individuals interested should apply by sending a copy of their curriculum vitae and three reference letters to: Dr. Shrin Devaskar, The Pediatric Research Institute, 5662 Parkway, St. Louis, MO 63110. St. Louis University is an Equal Opportunity Employer, M/F/V/H.

RESEARCH ASSOCIATE. Position available in Division of Immunology at teaching hospital affiliated with leading medical school. Duties will include conducting basic research on the mechanisms of allergy, specifically, to study the mechanism of the production of immunoglobulin E. Isolate lymphocytes and establish cell lines from human subjects. Measure IgE production after in vitro culture by radioimmunoassay and enzymatic assay technique. Analyze surface antigen of the cells by immunofluorescence. Utilize molecular genetic techniques to follow the course of production of IgE. Independently plan experiments and develop course of research. Write up results of experiments for submission to scientific journals and for presentation at scientific meetings. Pay rate: $42,000 per month. Send two resumes to: Department of Employment and Training, Hurley Building, 19 Stanford Street, Boston, MA 02114, and refer to Job Order #00487. An Equal Opportunity/Affirmative Action Employer.

—RESEARCH SPECIALIST. M.S./M.A. required, Ph.D. desired. Research experience in lymphology/immunology required. Emphasis on experimental surgery, radioisotopes, flow cytometry, fluorescent and video microscopy. Experience in molecular approaches to routine laboratory lymphocyte cell culture, knowledge of computer systems, grant management, manuscript preparation. Desired: Individual with background in basic immunology. Send curriculum vitae/bibliography/references to: M. H. Witte, M.D., Department of Surgery, Arizona Health Sciences Center, Tucson, AZ 85724. Closing date: prior to 10 May 1990. Women and minorities are urged to apply. The University of Arizona is an Equal Opportunity/Affirmative Action Employer.

—RESEARCH TECHNICIAN. Genetics laboratory seeks a research technician to participate in a new program on catalytic RNA structure. A Ph.D. or equivalent in biochemistry/biochemistry or macromolecular crystallography preferred. HSMI offers an excellent salary ($22,000 plus per year), a generous retirement plan, and flexible benefits, including health insurance. Please send curriculum vitae and the names of three references to: Professor T. R. Cech, Catalytic RNA Search, Campus Box 218, University of Colorado, Boulder, CO 80309. Closing date: 15 May 1990. Howard Hughes Medical Institute is an Equal Opportunity/Affirmative Action Employer.

—SENIOR CHEMIST. Conduct a quality advanced program in macromolecular and surface science to develop new products for commercial application in areas such as: synthesis and characterization of polymeric materials, surface phenomena, and/or colloid science of organic materials. Experience in academic and/or industrial chemistry. Send curriculum vitae and a list of publications to: Department of Chemical Engineering, Box 23762, University of Arizona, Tucson, AZ 85721. The University of Arizona is an Equal Opportunity/Affirmative Action Employer.

—BIOCHEMIST. Molecular and systems biology emphasis; experience in mammalian and insect cell systems. Requires a Ph.D. in biochemistry or molecular biology and postdoctoral experience. Send curriculum vitae and references to: Dr. James Rosen, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA 70803. Louisiana State University is an Equal Opportunity Employer.

—BIOCHEMIST/PROGRAMMER. Ph.D. biochemistry (1983) with postdoctoral research experience in molecular biology. Requires $40,000 per year. Send curriculum vitae and references to: Dr. James Rosen, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA 70803. Louisiana State University is an Equal Opportunity Employer.

Applicants must have a Ph.D. or M.D. degree, with a minimum of 3 years postdoctoral experience in medicine/immunology, in particular with techniques of cell separation, fractionation of lipids, and measurement of biochemical intermediates. Send curriculum vitae and references to: Dr. John Devlin, Department of Pediatrics, University of Illinois Hospital, 840 South Wood Street, Chicago, IL 60612. Attention: Joan Saykut. Reference #F-11. 1067-8. An Employer-paid ad.
Postdoctoral Research Fellowship Program

The Health Care Division of The Procter & Gamble Company has initiated a post-doctoral research program for a veterinary pathologist. This program will provide excellent opportunities for the successful fellow to conduct basic research in the area of gastrointestinal diseases. This project involves interactions with a multidisciplinary team (pathology, microbiology, immunology, and molecular biology) using animal models to study bacterial virulence factors and how therapeutic intervention modifies the normal pathogenesis of disease. The candidate will be given wide latitude in choosing research activities and approaches. Applicants should have a DVM or equivalent degree and a Ph.D. in pathology. Support will be for one year and renewable for a second year. Our modern research facility is located in a wooded rural setting in southwestern Ohio.

Send letters of application with CV and names of 3 references to:
Dr. T. J. Logan, Manager
Ph.D. Recruiting
Pathology Postdoctoral Program, Box S
The Procter & Gamble Co.
P.O. Box 398707
Cincinnati, Ohio 45239-8707

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National Institutes of Health, National Institute on Aging

Fellowships in the MOLECULAR NEUROBIOLOGY OF ALZHEIMER'S DISEASE

Fellowships are available in the newly formed Molecular Neurobiology Unit of the National Institute on Aging located at the Gerontology Research Center in Baltimore, Maryland. Research will be focused on gene expression in the aging CNS and in neurodegenerative disease, including studies of the molecular basis of neuropathology and the role of growth factors in the amelioration of age-related neuronal atrophy. Applicants should have a background in molecular biology, cell biology and/or neuroscience. Experience in modern molecular biological techniques is preferred, but not essential.

Send curriculum vitae, statement of research interests, and the names of three references to:

George R. Martin, Ph.D.
Scientific Director, NIA
Gerontology Research Center
4940 Eastern Avenue
Baltimore, Maryland 21224

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U.S. DEPARTMENT OF ENERGY

POSTGRADUATE RESEARCH PROGRAMS

Toxicology Engineering
Fossil Energy Physical Sciences
Hazardous Wastes Environmental Sciences
Artificial Intelligence Life Sciences
Computer Sciences Risk Analysis

- Research at national laboratories
- Stipends $20,000 - $41,000 depending on degree, program, research area
- Recent graduate degree
- U.S. citizens or PRAs eligible

Information and applications:

Postgraduate Research Programs
Science/Engineering Education Division
Oak Ridge Associated Universities
P.O. Box 117
Oak Ridge, TN 37831-0117
(615) 576-3190
WORLD AIDS FOUNDATION

The World AIDS Foundation (WAF) announces its intent to support research and education relating to AIDS in the developing world. The goal of the WAF is to facilitate information exchange and to assist developing countries to respond to the AIDS pandemic. The Foundation is particularly interested in projects which are catalytic, and once in place could have a multiplicative effect. The WAF is specifically interested in supporting:

A) short-term, in-country training for clinicians, allied health professionals and technicians;  
B) fellowships to support training for national experts;  
C) development and testing of new concepts and demonstration strategies for preventing the spread of HIV; and  
D) highly focused workshops which enhance the scientific process and transfer knowledge needed in the effort against HIV infections and AIDS.

The limit of any single funding request to the Foundation is $200,000.

Application Procedures:

Concept letters and applications may be prepared in English or French. Applicants should submit concept letters for initial consideration. Following review of concept proposals, applicants may be invited to submit complete proposals.

For further information please contact:

World AIDS Foundation  
c/o Asst. Secretary for Health  
Department of Health & Human Services  
200 Independence Avenue, SW  
Washington, DC 20201  
U.S.A.

or

World AIDS Foundation  
c/o Director Institut Pasteur  
28 Rue du Docteur Roux  
75724 Paris, Cedex 15  
FRANCE

COURSES AND TRAINING

SUMMER COURSES IN GROSS ANATOMY, EMBRYOLOGY, AND NEUROANATOMY

Will be offered to medical, dental, health science, and medical illustration students starting 18 June 1990. For further information, contact: Dr. Martin Dyn, Chairman, Department of Anatomy, Georgetown University Medical Center, 3900 Reservoir Road, N.W., Washington, DC 20007. Telephone: 202-687-1051, ext. 1711.

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain the Doctor of Osteopathic Medicine degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Dr. D. Chauncey, Program Director, Accelerated Program, The New England College of Optometry, Room S, 424 Beacon Street, Boston, MA 02115.

POSTDOCTORAL AND GRADUATE STUDENT FELLOWSHIPS

The University of Cincinnati College of Medicine offers a modern interdepartmental training program in environmental molecular and cellular carcinogenesis and mutagenesis. Cincinnati is a leading academic and industrial center for environmental studies providing numerous employment opportunities. Experimental approaches within the program include the role of growth factors and oncogenes in cellular transformation, the use of transgenic cells and molecules in neurotoxicology. Participating faculty are: Dr. Roy Albert (cancer genetic mechanisms and risk assessment), Dr. Stuart Baxter (tumor promotion), Dr. Michael Lieberman (growth factors and differentiation), Dr. John Loper (PAS systems in yeast), Dr. Steven Potter (insertional mutagenesis in transgenic mice), Dr. Howard Shertzer (chemoprevention of carcinogenesis), Dr. Peter Stambrook (mutagenesis in transgenic cells and mice), Dr. Edward Stavnezer (oncogenes and cell transformation), Dr. James Stringer (recombinant growth and gene targeting in ES cells), and Dr. David Warshawsky (mechanisms of chemical carcinogenesis).

Positions are immediately available and are funded through a national research training program. Applicants must have U.S. citizenship or permanent residency and have completed a Ph.D. degree or equivalent. Candidates should send curriculum vitae and three letters of recommendation to: Dr. Peter J. Stambrook, Department of Anatomy and Cell Biology, University of Cincinnati College of Medicine, Cincinnati, OH 45267. An Equal Opportunity/Affirmative Action Employer.

ANNOUNCEMENTS

AMERICAN EPILEPSY SOCIETY AWARDS PROGRAM

The American Epilepsy Society announces the 1990 Awards Program designed to encourage and reward clinical and basic science investigators whose research contributes importantly to understanding and conquering childhood onset epilepsy.

CATEGORY 1 AWARDS: Two annual awards of $150,000 each will be made to three individuals who have a distinguished history of research achievements and professional excellence related to pediatric aspects of epilepsy. One award will go to a clinical investigator and the other to a basic scientist.

CATEGORY 2 AWARDS: Three annual awards of $50,000 each will be made to three individuals whose research holds promise of leading to important advances in the understanding, diagnosis, and treatment of childhood onset seizures and epilepsy. At least one award in this category will go to a clinical investigator and two to basic scientists.

Candidates for the American Epilepsy Society Awards are nominated by their peers. The American Epilepsy Society has the sole responsibility for selection of recipients. Nomination forms are available from the American Epilepsy Society. Deadline for completed nominations is 2 July 1990. Award winners will be announced at the annual meeting of the American Epilepsy Society in San Diego, 10 to 15 November 1990.


The American Epilepsy Society Awards Program has been made possible by funds generously provided by the Milken Family Medical Foundation.

RESEARCH AWARDS

The International Life Sciences Institute Research Foundation (ILSRI Research Foundation) announces that two awards for basic research projects in toxicology and environmental health (to include human nutrition), each of up to $100,000 over 3 years, will be made in 1991. The purpose of the awards is to encourage innovative, new investigators in basic biomedical sciences to apply modern knowledge and techniques to basic problems related to comparative toxicology or environmental influences on growth, development, and aging. The closing date for applications is 1 September 1990. For further information, write: ILSRI Research Foundation, 1126 16th Street, N.W., Suite 100, Washington, DC 20036.

DOE HUMAN GENOME PROGRAM ANNOUNCEMENT OF SPECIAL RESEARCH GRANTS

The U.S. Department of Energy (DOE) announces its 1990 Special Research Grants competition in support of the Human Genome Initiative. Several research goals are encompassed in the 21 March 1990 Federal Register Notice 90-5, Vol. 55, p. 10486, supporting research and conferences for:

1. Development of innovative technologies and resources necessary for the physical mapping of human chromosomes.
2. Development of advanced DNA sequencing technology, particularly innovative new approaches with potential for rapid, cost-effective sequencing.
3. Development of data management systems for use in DNA mapping and sequencing, including data structures, retrieval schemes, user interfaces, and advanced database theory.
4. Addressing ethical, legal, and societal issues that may arise from applications of knowledge and materials resulting from the Human Genome Initiative.

For a more detailed description of issues and specific research topics to be addressed relative to this goal, please see “Ethical, Legal, and Social Implications of the Human Genome Initiative” in the NIH Guide to Grants and Contracts, Vol. 19, No. 4, 26 January 1990.

Pre-application and further information: Before preparing a formal application, potential applicants are encouraged to submit a brief pre-application consisting of two to three pages of narrative describing the research project objectives and method of accomplishment. These will be reviewed relative to the scope and the research objectives of the DOE Human Genome Program. Pre-applications should be sent to: Dr. Benjamin J. Barnhart, Office of Health and Environmental Research, ER-72 (GTN), Washington, DC 20545, telephone: 301-555-3057. A response to the pre-applications discussing the potential program and format of a formal application will be communicated within 4 weeks after receipt.

Formal applications submitted in response to this notice must be received by the Division of Acquisition and Assistance Management by 8 August 1990, for consideration by an ad hoc panel. The formal applications should be sent to: U.S. Department of Energy, Office of Energy Research, Division of Acquisition and Assistance Management, ER-64, Room G-236, Washington, DC 20545, Attention: Program Notice 90-5.

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The Squibb Institute for Medical Research

Postdoctoral Fellowship Program

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

Our Postdoctoral Fellowship program offers outstanding opportunities for scientists to gain significant postdoctoral training in the basic research programs pursued at The Squibb Institute for Medical Research and in collaboration with our research alliances.

Postdoctoral Fellowships are awarded for 1-3 years. Opportunities exist in the following areas:

**MOLECULAR BIOLOGY**

*Dr. Mariano Barbacid*

Oncogenes, growth factor receptors, and transcriptional factors relating to the development of neoplastic transformation of normal cells.

*Dr. Rodrigo Bravo*

Identification of growth factor inducible genes.

*Dr. Michael Rosenberg*

Mouse developmental genetics laboratory studying the regulation and expression of proto-oncogenes during development using transgenic mice and ES cell technologies.

**MACROMOLECULAR BIOLOGY**

*Dr. Thomas Lavoie*

Design, construction, and characterization of novel recombinant antibody based molecules for targeted thrombolysis.

Development of expression system for recombinant antibody molecules.

*Dr. Shi Chung Ng*

Antibody structure/function relationship, protein folding and assembly, as well as design and expression of novel and potentially therapeutic antibody-targeted molecules.

**NMR SPECTROSCOPY**

*Dr. Luciano Mueller*

Elucidate structures and dynamics of proteins and their complexes to DNA and ligands, develop NMR methods, in particular, heteronuclear multi-dimensional spectroscopy.

**CELLULAR BIOLOGY**

*Dr. Richard Gregg*

Regulation of lipid and lipoprotein metabolism; transcriptional, post-transcriptional, and metabolic regulation of enzymes, apolipoproteins, and receptors; mechanism of lipoprotein assembly and secretion; regulation of transport of cholesterol from peripheral tissues to the liver.

**VIROLOGY**

*Dr. A. Kirk Field*

Structure-function studies of herpesvirus DNA polymerases. Research projects include expanded efforts in heterologous expression, in vitro mutagenesis, enzymology, and computer modeling.

**MACROMOLECULAR CRYSTALLOGRAPHY**

*Dr. Stephen Sheriff*

Antibody-Antigen Complexes - study molecular recognition using antibody-antigen binding as a model system. Antigens include proteins such as lysozyme and staphylococcal nuclease and small molecules including digoxin.

*Dr. Jack Sack*

Calmodulin - study the structural effects of various mutations on the calcium-binding protein, calmodulin, in order to understand the biochemical activity of the mutant proteins.

**MACROMOLECULAR MODELING**

*Dr. Jiri Novotny*

Study the biophysical basis of macromolecular structure and stability, and develop physical models of molecular recognition in biological systems (e.g. specific interactions between enzymes and substrates, antigens and antibodies, DNA and protein regulators, small molecular-weight drugs and their targets, etc.).

**MACROMOLECULAR CHEMISTRY**

*Dr. Gary Matsueda*

Design and characterize peptidic enhancers and regulators of enzymes and proteins in thrombolysis. Optimized protecting group chemistry, linkers, and resins used in solid-phase synthesis.

Prepare and characterize recombinant protein chimeras possessing thrombolytic activity.

**MICROBIAL MOLECULAR BIOLOGY**

*Dr. Prabhavathi Fernandes*

Molecular biology and genetics of bacilli and the expression of heterologous proteins in *Bacillus subtilis*.

In addition to a comprehensive salary and benefits program, we offer the opportunity to participate in a variety of seminars and symposia; work on non-proprietary research projects and require publication of research results.

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Dr. Peter Markiewicz
Quotes from Using the Apple Macintosh in Molecular Biology newsletter.

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Dr. Clark Riley
Johns Hopkins University

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University of Rochester

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Dr. José-Luis Millán
La Jolla Cancer Research Foundation

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