

Personnel Placement

LINE CLASSIFIED ADVERTISEMENTS

DEADLINES: Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. *Science* publishes each Friday, except the last Friday of the year. Advertisements must be submitted in writing.

HOW TO SUBMIT A CLASSIFIED AD: Prepare double-spaced typewritten ad copy on a separate sheet. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Deadline for applications stated in ad must be at least 2 weeks after date of publication. Also include a cover sheet which gives name and phone number of contact person, desired date of publication, and billing information, including any special invoicing requests. Mail or FAX materials to:

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

CLASSIFICATIONS: *Science* publishes line classified ads under the following headings: **Positions Open, Employment Agencies, Situations Wanted, Courses and Training, Meetings, Announcements, and Marketplace.** Advertisers should specify classification desired.

HOW TO CALCULATE RATE FOR CLASSIFIED AD: Ads are \$41 per line with a \$410 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces.

To ESTIMATE ad cost, count total number of 52 character lines and multiply by \$41 to find approximate cost of ad per week. Each line of centered heading counts as one line. Also count one line for white space between headline and first line of text; all partial lines are also counted as full lines (including all centered reply information).

Remember, this is a rough estimate only. Allow for variation between estimated typewritten lines and ads when actually typeset for magazine. Therefore, purchase orders must allow additional funds for 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 made in U.S. dollars by checks drawn on U.S. banks is required on all foreign ads.

CREDIT CARDS: *Science* accepts MasterCard and VISA. Both personal and corporate cards may be used. Prepayment does not apply to credit cards.

BOXES AND LOGOS: Any line classified ad can be boxed and/or published with logo to increase its visibility on page. Since the box takes up additional space, one line now equals 48 characters and spaces; two additional lines will be added to allow for top and bottom rules. Logos are billed according to the number of lines needed to fit logo in space.

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

DISPLAY PERSONNEL ADVERTISEMENTS

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

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

CONDITIONS: Personnel advertising is accepted only with the understanding that the advertisers do not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference. *Science* reserves the right, at its discretion, to decline to publish advertisements submitted to it and to decline classifications which it considers misleading.

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY

Full-time; tenure-track position. Ph.D. required; courses may include introductory courses, developmental biology, cell biology, genetics, histology, and/or biochemistry. Send curriculum vitae and list of three references with telephone numbers by 12 April 1991 to:

Dr. Alice Saylor
Bloomfield College
Bloomfield, NJ 07003

Bloomfield is located 15 miles west of Manhattan. Experience in a multiracial/multicultural teaching environment preferred. *Women and minorities encouraged to apply. Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR REPRODUCTIVE ENDOCRINOLOGY

Beth Israel Hospital, Boston, invites applications for a research position in the Division of Reproductive Endocrinology. Requirements include a Ph.D. in physiology, 2 years of postdoctoral training related to reproductive endocrinology, experience in molecular biology, and the ability to set up own laboratory with development of an independent research program over a course of 2 years. Teaching responsibilities at Harvard Medical School are limited to supervision of basic science research by M.D. fellows. Applicants must demonstrate willingness to devote effort to previously planned projects as well as development of individual areas of investigation.

Submit curriculum vitae, name, address, and telephone numbers of three references to: **Joseph F. Mortola, Department of Obstetrics and Gynecology, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02215**, by 15 May 1991. *Beth Israel Hospital is an Affirmative Action/Equal Opportunity Employer.*

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) DEPARTMENT OF BIOLOGY

Candidates are sought for two tenure-track faculty positions at the level of **ASSISTANT PROFESSOR**. Candidates should have significant research experience in neurobiology, plant biology, or developmental biology. Approaches should stress genetics, molecular biology, cell biology, or/and biochemistry. The responsibilities of this position include conduct of an active research program and participation in the teaching program of the department.

Applicants should send curriculum vitae and a summary of proposed research, and arrange to have letters sent from three scientists who can provide an evaluation of the candidate's accomplishments and future potential for both research and teaching. Applications and letters should be sent to:

Chairman, Biology Search Committee
c/o Room 56-511, Department of Biology
Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, MA 02139

MIT is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF UTAH

The Department of Obstetrics and Gynecology and the Program in Human Molecular Biology and Genetics invites applications for an

ASSISTANT PROFESSORSHIP REPRODUCTIVE IMMUNOLOGY

The search is limited to individuals with a research interest in immunological areas relevant to reproduction. Applicants should have a Ph.D. degree and sufficient advanced research training to be able to initiate an independent research program. Interested individuals should send curriculum vitae, the names of three references, and a statement of research interests to:

Stephen M. Prescott, M.D.
Director

Program in Human Molecular Biology and Genetics
Building 500
University of Utah
Salt Lake City, UT 84112

or

James R. Scott, M.D.

Chairman, Department of Obstetrics and Gynecology
University of Utah Medical Center
Salt Lake City, UT 84132

The University of Utah is an Equal Opportunity Employer and encourages applications from members of minority groups and from women.

POSITIONS OPEN

ASSISTANT PROFESSOR: MICROBIOLOGY (tenure track); first-year courses, microbiology, histology; student research, advising. Two tracks to B.S.: field biology and molecular biology. Commitment to teaching undergraduates in church-related liberal arts college; engage in scholarly activities/professional services. Letter, curriculum vitae, copies of undergraduate/graduate transcripts by 12 April 1991 to: **Dr. Leonard Schulze, Academic Dean, Texas Lutheran College, Seguin, TX 78155.** *Affirmative Action/Equal Opportunity Employer.*

CELL/MOLECULAR BIOLOGIST

The University of Nevada, Reno (UNR), invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR**. This is a 12-month appointment in both the Departments of Biology (75%) and Biochemistry (25%). Candidates should have at least 2 years of postdoctoral experience and the potential to do significant research. The successful applicant will occupy newly renovated and equipped laboratory space and is expected to develop an externally funded research program. Teaching at the undergraduate and graduate level is expected.

Applicants should submit curriculum vitae, a description of research and teaching interests, reprints, and the names, addresses and telephone numbers of three references to: **Dr. Lee A. Weber, Department of Biology, University of Nevada, Reno, NV 89557.**

To ensure full consideration applicants should have all materials on file by 1 May 1991. Position will remain open until filled. *Affirmative Action/Equal Opportunity Employer. UNR employs only U.S. citizens and aliens lawfully authorized to work in the United States.*

PLANT BIOLOGISTS. The Department of Horticultural Sciences at Texas A&M University intends to add expertise in molecular biology to an outstanding corps of applied and fundamental plant scientists. Three tenure-track positions, plant molecular genetics, postharvest biology, and horticultural products biology, will be filled at the **ASSISTANT PROFESSOR** level. Individuals will organize and conduct research programs targeted at fundamental questions, teach graduate and advanced undergraduate courses in their areas of expertise, advise graduate students and postdoctoral associates, and establish and administer aggressive extramural grants programs. Cooperative programs with faculty and research scientists within the department, in other departments on campus, and at off campus research centers will be encouraged. Candidates must have earned Ph.D. degrees in horticulture, plant physiology, genetics, biochemistry, molecular biology, food science, or related fields as appropriate to the position sought. Applicants should send résumés, official transcripts, and request that three letters of recommendation be sent to: **Dr. R. Daniel Lineberger, Department of Horticultural Sciences, Texas A&M University, College Station, TX, 77843-2133.** Information concerning the positions may be obtained by writing to the above address or calling 409-845-5250 (FAX: 409-845-0627). The deadline for applications is 15 June 1991, or until suitable candidates are found. *Texas A&M University is an Equal Opportunity/Affirmative Action Employer.*

BIOCHEMISTRY ASSISTANT PROFESSORS. The Mount Sinai School of Medicine. Applications are invited for two tenure-track positions at the assistant professor level in the Department of Biochemistry, Mount Sinai School of Medicine. We seek individuals with research interest in the regulation of metabolism, study of membrane proteins, enzymology, or signal transduction. The successful applicants will be expected to develop strong independent research programs with extramural funding and to participate in the teaching of medical and graduate students. Current research interests in the department include: structure and function of insulin, insulin-receptor action, protein phosphorylation and signaling, Fc receptors and signaling, regulation and mRNA metabolism, biochemical toxicology of alcohol, hepatitis B virus and HIV replication, molecular mechanism of energy transduction, conformational properties of proteins and ligand binding interactions. Start-up funds and research space are available for the coming academic year. Applicants should send curriculum vitae, a statement of research interests, and names of three references to: **Dr. Arthur I. Cederbaum, Search Committee, Department of Biochemistry, Box 1020, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** *An Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOCHEMISTRY. Beginning September 1991 to participate in undergraduate and graduate teaching and to initiate a high-quality research program. Research experience and interests may be in any field of biochemistry or molecular biology. This appointment is for 1 year with possible renewal for up to 4 years at which point it may be converted to a tenure-track position. Qualifications: Ph.D. and postdoctoral experience. Send résumé (*noncitizens must include current visa status*), statement of research interests, and the names of three references by 15 June 1991 to: **Donald M. Green, Department of Biochemistry, University of New Hampshire (UNH), Durham, NH 03824.** UNH is an Affirmative Action/Equal Opportunity Employer.

BIOLOGY, TENURE-TRACK ASSISTANT PROFESSOR. At Augusta College, a 5200-student, senior unit of the University System of Georgia. A commitment to teaching undergraduates and pursuing scholarly activities, including the direction of student research, is essential. Teaching responsibilities will include introductory biology and invertebrate zoology; preferably marine biology and ichthyology. Ph.D. required. Employment begins 1 September 1991. Send letter of application, curriculum vitae, and names of three references with addresses and telephone numbers to: **Dr. Russell E. Stullken, Department of Biology, Augusta College, Augusta, GA 30910.** Applications received by 26 April 1991 will be assured of full consideration. Augusta College is an Affirmative Action/Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.

Eastern Kentucky University. **ASSISTANT PROFESSOR, ANATOMICAL SCIENCES.** The Department of Biological Sciences at Eastern Kentucky University seeks applicants for a Ph.D.-level, tenure-track position in anatomy and physiology beginning August 1991. Teaching responsibilities will involve undergraduate courses in human anatomy, advanced human anatomy, and neuroanatomy for allied health students as well as upper division and graduate-level courses in our M.S. program. The successful candidate will be expected to direct undergraduate and graduate research in an area of specialty. Send or FAX letter of application, curriculum vitae, transcripts, description of teaching and research goals, and three letters of reference by 25 April 1991 to: **Dr. William W. Farrar, Department of Biological Sciences, Eastern Kentucky University, Richmond, KY 40475.** FAX: 606-622-1020. Eastern Kentucky University is an Equal Opportunity/Affirmative Action Employer. Employment eligibility verification required, Immigration Reform and Control Act of 1986.

RESEARCH ASSISTANT PROFESSORS

Two research assistant professors are needed to participate in team research in the development and application of digital imaging microscopy to clinical diagnostics. Ph.D. with background in computer science and biology, biophysics and mathematics is required. Practical experience in computer hardware and software development (UNIX, Forth, FORTRAN, C, Pascal, J language), mathematical modeling, digital image processing techniques and solid foundation in the current state-of-the-art of diagnostic markers for cervical and breast carcinoma is also required. Salary commensurate with experience. Send curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. Charles R. Hackenbrock, Department of Cell Biology and Anatomy, University of North Carolina at Chapel Hill, CB# 7090, 108 Taylor Hall, Chapel Hill, NC 27599-7090** by 15 May 1991. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

MOLECULAR BIOLOGIST/BIOCHEMIST

A faculty research position at the **ASSISTANT/ASSOCIATE PROFESSOR** level is available starting 1 August 1991 for a basic scientist in the urologic oncology laboratory in the Division of Urology, University of Kentucky Medical Center (UKMC). Candidates must have a Ph.D. with postdoctoral experience and will be expected to establish and maintain an extramurally funded research laboratory. Experience in urologic tumors is desirable but not mandatory. A generous start-up package is available. Send curriculum vitae and references to: **Dr. Bruce Lucas, MS-269 UKMC, 800 Rose Street, Lexington, KY 40536.** The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR OF CLINICAL NUTRITION. Full-time, tenure-track position. M.D. and/or Ph.D. with clinical nutrition emphasis is required. Demonstrated research ability and graduate teaching competency. Salary commensurate with experience. Exciting multidisciplinary opportunities available. Send letter of application, résumé, transcripts, and three letters of reference to: **Dr. Geza Bruckner, Chair, Department of Clinical Sciences, 229 Medical Center Annex Two, University of Kentucky, Lexington, KY 40536-0080.**

ASSISTANT/ASSOCIATE PROFESSOR LABORATORY OF TOXICOLOGY HARVARD UNIVERSITY SCHOOL OF PUBLIC HEALTH

The Laboratory of Toxicology is searching for a junior faculty member who plans to establish an independent, competitive research program in the broad area of molecular and cellular mechanisms of toxicity. The successful applicant's interests will complement the faculty's current strengths, which include mutagenesis and DNA repair, cellular responses to oxidative stress, receptor-mediated toxicity, molecular biology of kidney disease, and control of the mammalian cell cycle. The position also includes the opportunity and responsibility for graduate and postdoctoral training and teaching. To apply, send curriculum vitae, a short statement of research interests, and the names of three references to: **Professor Bruce Dimple, Chair, Search Committee, Laboratory of Toxicology, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.** Harvard University is committed to increasing the representation of women and minority members among its faculty and particularly encourages applications from such candidates.

CARDIOVASCULAR PHYSIOLOGIST

The Department of Veterinary Physiology and Pharmacology, Texas A&M University, invites applications for a tenure-track faculty position at the level of **ASSISTANT/ASSOCIATE PROFESSOR.** Qualifications include a Ph.D. degree, indicating advanced training in cardiovascular physiology, and proven ability to develop and conduct a significant research program in this field. Interest in comparative medicine is desirable. The position will include graduate instruction, and participation with other medical institutions in cooperative research programs. The faculty member will also participate in a special program in which candidates are seeking certification in clinical specialties in addition to the Ph.D. degree. This position offers an opportunity for career enhancement through the development of successful research and teaching programs, as well as a unique prospect for the conduct of cooperative research with associated medical institutions. Applicants should submit curriculum vitae and names and addresses of three references to: **Dr. D. R. Clark, Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, Texas A&M University, College Station, TX 77843-4466.** Applications should be received by 1 May 1991.

Texas A&M University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT RESEARCHER/PROFESSOR PLANT EVOLUTION/SYSTEMATICS

A tenure-track position with split appointment in the Hawaiian Evolutionary Biology Program and the Department of Botany is available in fall of 1991. Candidates must have Ph.D. with research capability in plant evolution/systematics using molecular approaches on Hawaiian plants. A multidisciplinary approach to investigating the dynamics of evolutionary processes would be most congruent with research goals of the program. Candidates are also expected to teach appropriate courses (one or two per year) in the botany curriculum and assist in the development of the new graduate program in ecology, evolution, and conservation biology. Submit curriculum vitae and names and addresses of three references to: **Dr. Kenneth Y. Kaneshiro, Chair, EECB Program, University of Hawaii, 3050 Maile Way, Honolulu, HI 96822.** Closing date: 30 April 1991.

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

TEXAS A&M UNIVERSITY COLLEGE OF AGRICULTURE AND LIFE SCIENCES DEPARTMENT OF WILDLIFE AND FISHERIES SCIENCES

Applications are invited for two tenure-track faculty positions in (i) **AQUATIC SYSTEMS ECOLOGY, LIMNOLOGY, or ECOTOXICOLOGY**, and (ii) **WILDLIFE or FISHERIES POPULATION ECOLOGY** as an **ASSISTANT**, or **ASSOCIATE PROFESSOR** beginning in the fall of 1991. Applicants must have a Ph.D., postdoctoral or other experience, a solid publication and grants record, appropriate teaching experience, strong commitment to a growing graduate program in these areas, and a willingness to participate in international research and student training projects emphasizing Mexico and Latin America. Interested individuals should provide a letter of application, curriculum vitae, copies of appropriate publications, statement of research and teaching interests, and the names of at least three references. Applications must be received by 15 May 1991. Send applications to: **Dr. David J. Schmidly, Professor and Head, Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX 77843-2258.** Texas A&M is an Equal Opportunity/Affirmative Action Employer and welcomes applications from qualified women and minority candidates.

LABORATORY ANIMAL SCIENCE. The American Association for Laboratory Animal Science (AALAS) seeks a distinguished professional to serve as **EDITOR** of the association's journal, *Laboratory Animal Science*. Applicants must be currently active in the field. Additional qualifications include: a significant record of published research in the field of laboratory animal science and comparative medicine; organizational and teamwork skills; tact and judgment. Editorial experience desirable, but not necessary. Submit résumés by 1 June 1991 to: **Chairman, IAS Editorial Board, AALAS, 70 Timber Creek Drive Suite #5, Cordova, TN 38018.**

VERTEBRATE PALEONTOLOGIST/CURATOR

Carnegie Museum of Natural History seeks applicants for a curatorial position in vertebrate paleontology to join a staff that includes four other curators. Qualifications: Ph.D. with specialization in vertebrate paleontology; field/research program to complement Carnegie's collections; experience in curation; ability to obtain research funding; willingness to participate in education/exhibit programs. Rank and salary commensurate with experience. Latest starting date 1 January 1992. Send curriculum vitae, up to five recent publications, statement of research program, and names/addresses of five referees by 15 May 1991 to: **Search Committee, Vertebrate Paleontology, Carnegie Museum of Natural History, 4400 Forbes Avenue, Pittsburgh, PA 15213.** Equal Opportunity/Affirmative Action Employer.

CHIEF, DIVISION OF DIGESTIVE DISEASES AND NUTRITION. The Department of Medicine of the University of North Carolina at Chapel Hill has opened a search for a chief of the Division of Digestive Diseases and Nutrition. We seek candidates with strong clinical credentials and a record of productivity in basic or clinical investigation who are capable of leading a large and diverse division with vigor and distinction. Interested individuals should reply with their curriculum vitae and the names of three references to: **GI Search Committee, CB# 7030, 547 Burnett-Womack, The University of North Carolina—Chapel Hill, Chapel Hill, NC 27599-7030.** UNC—Chapel Hill is an Equal Opportunity/Affirmative Action Employer and female and minority applicants are encouraged to identify themselves.

ENVIRONMENTAL SCIENTIST/BRANCH CHIEF. Permanent full-time position at U.S. Environmental Protection Agency's (EPA) Robert S. Kerr Environmental Research Laboratory, Ada, Oklahoma. Must have extensive research experience and a strong background in either chemistry, biochemistry, soil microbiology, or microbial ecology. Must be able to work with people and have demonstrated written and oral communication skills. Salary range: GS-13, \$44,348 to \$57,650; GS-14, \$52,406 to \$68,129. Must be U.S. citizen. For a copy of official agency announcement and necessary forms, write to: **Ms. Carolyn Taylor, P.O. Box 1198, Ada, OK 74820** no later than 6 May 1991, or call: 405-332-8800, ext. 228. EPA is an Equal Opportunity Employer.

UNIVERSITY OF HONG KONG
Reader/Senior Lecturer in Anatomy
(Ref. 90/91-68)

Applications are invited for a Readership/Senior Lectureship in the Department of Anatomy, tenable from September 1, 1991. The appointment will be full time on either superannuable terms, or a two-year fixed term contract. Appointments on secondment would also be considered.

Applicants should be experienced teachers of gross anatomy. The appointee will be expected to play a major role in the co-ordination and development of the Department's teaching programmes in gross anatomy, principally for preclinical medical students. Applicants should preferably hold a medical qualification but this should not discourage other experienced teachers of gross anatomy from applying.

Preference will be given to candidates who have a strong research commitment in one of the Department's existing areas of expertise which include Cancer Biology, Cell Biology, Neurobiology, Neuroendocrinology, Oral Biology and Reproductive Biology.

Annual salaries [superannuable for permanent staff and non-superannuable but attracting 25% (taxable) terminal gratuity for contract staff] are on the scales:

Reader HK\$453,780–602,880 (9 points)
Senior Lecturer HK\$435,000–584,340 (9 points)
(approx. US\$1=HK\$7.80 as of February 12, 1991).

Starting salary will depend on qualifications and experience. At current rates, salaries tax will not exceed 15% of gross income. Housing at a charge of 7.5% of salary, children's education allowances, leave, and medical benefits are provided.

Further particulars and application forms may be obtained from Appointments (39095), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK; or from the Appointments Unit, Registry, University of Hong Kong, Hong Kong (Fax (852)-5592058; E-mail APPTUNIT@HKUVM1.HKU.HK).

Closes **3 May 1991**.

FACULTY POSITIONS IN BIOCHEMISTRY
and
CELL BIOLOGY

St. Jude Children's Research Hospital

St. Jude Children's Research Hospital, a private research institute, is engaged in a major expansion of its facilities and scientific activities. A new research building to be completed in early 1991 will provide 240,000 square feet of new laboratory space which will house the institute's basic science programs. As part of this expansion, new faculty positions are now available in the Departments of Biochemistry and Cell Biology. Although preference will be given to applicants who have recently completed postdoctoral training and are seeking positions at the level of Assistant Member, more senior investigators with appropriate research interests and qualifications will be considered for positions of higher faculty rank. Candidates with programs focusing on the regulation of cell growth, differentiation and transformation, the biochemistry and molecular biology of signal transduction, and mechanisms of gene regulation are particularly encouraged to apply. Opportunities exist for collaborative interactions with ongoing basic research programs in Virology and Molecular Biology, Immunology, and Pharmacology, as well as with clinical investigators in Hematology/Oncology and Infectious Diseases. In addition to new facilities and excellent start-up funds, salaries are nationally competitive and include a generous benefits package. A strong institutional commitment to its faculty ensures stability in program development and continuity of research activities.

Applicants should submit a curriculum vitae, a letter summarizing their research accomplishments and goals, and the names of three references to either:

Dr. James N. Ihle
or
Dr. Charles Sherr
St. Jude Children's Research Hospital
332 N. Lauderdale
Memphis, TN 38105 USA

SJCRH IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER



The University of Sydney

AUSTRALIA

**CHAIR OF ANIMAL
SCIENCE**

Reference No. 05/04

Applications or expressions of interest are invited for the Chair of Animal Science which will become vacant at the end of 1991 following the retirement of Professor E. F. Annison. Current interests of the department include nutrition, reproductive biology and genetics. There is a second Chair of Animal Science which is occupied by Professor D. R. Fraser whose interest is in animal biochemistry. The Department of Animal Science is located at two centres, Sydney and Camden. The successful applicant will be based at Camden.

It is anticipated that interviews for the Chair will be held three months after the closing date.

Salary will be at the rate of \$A67,812 p.a.

The University reserves the right to appoint by invitation and not to proceed with any appointment for financial or other reasons.

Intending applicants for chair positions should obtain a detailed statement of information concerning the chair from The Registrar, address below.

Applications (in triplicate for chairs) quoting Reference No., and including curriculum vitae, list of publications and the names, addresses and fax. nos., of three referees (only three referees will be contacted in the first instance and if more referees are nominated they should be ranked in order of preference) to the Registrar, Staff Office, University of Sydney, NSW 2006 Australia (Fax 612 692 2058) by 25 April, 1991.

*Equal employment opportunity and no smoking
in the workplace are University policy.*

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**DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
FOOD AND DRUG ADMINISTRATION
CENTER FOR FOOD SAFETY AND APPLIED NUTRITION**

DIRECTOR, OFFICE OF SEAFOOD

The Food and Drug Administration invites applications for the position of Director of the new Office of Seafood in the Center for Food Safety and Applied Nutrition. The Director will provide marine sciences expertise to expand and direct the Center's seafood safety research and regulatory programs. Research is conducted on seafood, aquaculture and seafood harvesting and processing, as they are affected by chemical, biotoxic or microbial contamination. Regulatory programs to ensure that all seafood products are safe and properly labelled are the responsibility of this office. Strong leadership is necessary for the federal programs, federal/state programs, and others such as the National Shellfish Sanitation Program.

QUALIFICATIONS: Experience is required in the biological or chemical sciences, with emphasis on food sciences, food engineering/technology, marine biology, ichthyology, parasitology, food microbiology, etc., as related to seafood safety. Candidates must be nationally and internationally recognized by the scientific community, must meet U.S. OPM qualifications requirements and must be U.S. citizens. A Ph.D. is preferred but consideration will be given to all applicants with Master's or Bachelor's degrees and appropriate experience.

SALARY: Appointment will be to a full-time, permanent position with a salary range of \$61,643 to \$80,138 per year dependent on qualifications. This position is projected for inclusion in the Senior Executive Service which has a salary range of \$87,000 to \$108,300.

LOCATION: The Office of Seafood will be located in the Washington, DC Metropolitan Area, with research and technical support facilities in Dauphin Island, AL and Davisville, RI.

TO APPLY: Candidates should send a current CV or Application for Federal Employment and bibliography to **Dr. Douglas L. Archer, Deputy Director, Center for Food Safety and Applied Nutrition (HFF-2), 200 C Street, S.W., Washington, D.C. 20204**. Applications for this position must be postmarked not later than **April 20, 1991**.

The Food and Drug Administration is Smoke Free
The Food and Drug Administration is an Equal Opportunity Employer

POSITIONS OPEN

UNIVERSITY OF CAMBRIDGE PROFESSORSHIP OF VIROLOGY

Applications are invited for this newly established professorship.

Pensionable stipend: £32,663 a year.

Further information from: **The Secretary General of the Faculties, General Board Office, The Old Schools, Cambridge CB2 1TT, England**, to whom applications (ten copies), marked "confidential," should be sent with the names of two referees by 29 April 1991.

The university follows an Equal Opportunities policy.

ENDOWED PROFESSORSHIP TEXAS A&M UNIVERSITY

The Department of Biochemistry and Biophysics is seeking applications for the Wolfe-Welch Professorship in Chemistry. Applicants should have a Ph.D. and a record of significant research accomplishments supported by competitive funding. Outstanding candidates in all research areas will be considered.

Applicants should send curriculum vitae, list of publications, a brief description of current and future research directions, and have three letters of reference sent to: **Dr. Robert D. Wells, Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX 77843-2128.**

The Texas A&M University System is an Affirmative Action/Equal Opportunity Employer.

PROFESSOR AND HEAD. Department of Oral Biology, University of Illinois at Chicago (UIC), College of Dentistry.

Nominations and applications are now being accepted for the position of head, Department of Oral Biology, the University of Illinois at Chicago, College of Dentistry. This position affords an exciting opportunity to build a broadly based department with the mandate to design programs of academic excellence in the disciplines that relate to oral biology. The department will be a core basic science department in the College of Dentistry and will also develop collaborations and interactions throughout the UIC community. Interests of current faculty include biology and pathology of the jaw joint and oral-facial development, mineralization, connective tissue biology, and neurophysiology. The department participates in undergraduate, graduate, and postgraduate teaching programs and faculty are expected to perform meritorious research. Teaching responsibilities include gross and neuro anatomy, oral and general histology, and dental anatomy with the expectation of expansion into other areas.

Qualifications for the headship include an earned doctoral degree (Ph.D. and/or D.D.S., D.M.D., M.D.). Evidence of the ability to develop and administer an independent research program and demonstrated leadership potential is essential. Salary is competitive and dependent upon the qualifications and experience of the candidate. The position is available immediately.

The University of Illinois is an Affirmative Action/Equal Opportunity Employer. For full consideration, send nominations and applications along with the curriculum vitae and the names of three professional references by 31 May 1991 to: **Dr. R. John Solaro, Chair, Search Committee for the Oral Biology Department Headship, UIC College of Dentistry, Office of the Dean (M/C 621), Box 6998, Chicago, IL 60680.**

CHAIR, DIVISION OF MEDICINAL CHEMISTRY AND NATURAL PRODUCTS. The School of Pharmacy at the University of North Carolina at Chapel Hill invites application for the position of chair and professor of the Division of Medicinal Chemistry and Natural Products. The division chair is responsible for providing leadership to the research and teaching programs of the division. Candidates must have a Ph.D. in medicinal chemistry or an area related to the research and teaching of the division, demonstrated success in developing external funding, good leadership qualities, and a commitment to scholarly achievement. The position will be available 1 January 1992 and will remain open until a suitable candidate is appointed. Interested applicants should contact: **Dr. George H. Cocolas, School of Pharmacy, University of North Carolina, CB# 7360 Beard Hall, Chapel Hill, NC 27599.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

LEADER FOR THE SURFACE WATER AND MODELING TEAM ENVIRONMENTAL PROCESSES AND EFFECTS RESEARCH OFFICE OF RESEARCH AND DEVELOPMENT WASHINGTON, D.C. \$61,643 to \$80,138

U.S. Environmental Protection Agency (EPA) is seeking highly qualified candidates for the position of leader for the Surface Water and Modeling Team, Office of Environmental Processes and Effects Research (OEPR). OEPR, which is in the Office of Research and Development (ORD), is responsible for the development of scientific methods and data necessary to understand, predict, and manage the entry, movement, and fate of pollutants and their effects on the food chain, as well as their effects on nonhuman organisms and ecosystems. This research is conducted in ORD's field research laboratories. The team leader is responsible for the planning, coordination, and review of a comprehensive research program on global climate change, stratospheric ozone depletion, Arctic environmental protection, and ecological impacts due to air pollution. The team leader, located in Washington, D.C., supervises an interdisciplinary technical staff of four. Applicant must have a Ph.D. in systems ecology or equivalent experience.

Mandatory technical qualifications:

- Demonstrated ability to plan/develop complex research programs relevant to the needs of EPA.
- Demonstrated ability to manage/implement complex research programs relevant to the needs of EPA.

To meet the requirements of the position, applicant must submit a completed SF-171 (application for federal employment) to: **Ms. Barbara Ashton, PM-212, Headquarters Client Service Division, Environmental Protection Agency, 401 M Street, S.W., Washington, D.C. 20460. Telephone: 202-382-2973.** The vacancy announcement number is: **1ORD-687.** Résumés without accompanying SF-171s will not be considered. Applications must be received by 19 April 1991. *EPA is an Equal Opportunity Employer.*

ENDOWED CHAIR IN BIOLOGICAL CONTROL

The Department of Entomology and Nematology, IFAS, University of Florida, invites applications and nominations for the newly established Davies, Fischer and Eckes Chair in Biological Control. The eminent scholar will develop innovative research programs on biological control of arthropods, nematodes, and or weeds. His/her research may be fundamental or applied, and may focus on model systems, beneficial organisms, pest complexes, or other biological processes. It is anticipated that the research results generated by this position will benefit the citrus industry. The incumbent will interact with biocultural faculty statewide, and develop a strong graduate program, including instruction. Candidates are expected to be internationally recognized scholars, possess a doctorate, have a proven record of obtaining extramural financial support, and display a strong commitment to graduate education. Applicants must submit, by 1 June 1991 curriculum vitae, statement of research interests, and names of five references to: **John L. Capinera, Chairman, Department of Entomology and Nematology, Building 970, Hull Road, University of Florida, Gainesville, FL 32611-0740.** *The University of Florida is an Equal Opportunity/Affirmative Action Employer.*

BONUS CIRCULATION FOR YOUR CLASSIFIED AD AT ASM MEETING

Our issue of **26 April 1991** will be distributed to scientists attending the 1991 ASM Meeting in Dallas, Texas.

Deadline for submission of line classified ads:
11 April 1991

SCIENCE

Classified Advertising
Telephone: 202-326-6555
FAX: 202-682-0816

POSITIONS OPEN

CHAIRPERSON DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY LOUISIANA STATE UNIVERSITY MEDICAL CENTER, SHREVEPORT

Applications and nominations are invited for the position of **PROFESSOR AND HEAD** (chairperson) of the Department of Biochemistry and Molecular Biology at Louisiana State University Medical Center (LSUMC), Shreveport. The department currently consists of nine faculty, eight fellows, and 23 doctoral students and is responsible for teaching freshman medical students, maintaining state-of-the-art research programs in molecular biology, and training doctoral students. The department is well equipped, well funded, and will expand now and with the opening of the ten-story Biomedical Research Institute which will focus on research in molecular biology, cardiovascular sciences, and neurobiology. We seek candidates with an outstanding record of research achievement, proven leadership skills, and a commitment to training medical and doctoral students. Candidates should have a Ph.D. and/or M.D. and a record of scientific excellence as evidenced by publications and grant awards. Candidates should submit curriculum vitae, a summary of research interests, and at least three letters of reference to: **Dr. Dennis J. O'Callaghan, Chair of Search Committee, Department of Microbiology and Immunology, LSUMC, 1501 Kings Highway, Shreveport, LA 71130.**

LSUMC is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR: FIELD RESEARCH CENTER

Position open November 1991 for Director of Kari-soke Research Center (KRC) for studies of mountain gorilla and African montane ecology in Volcano National Park, Rwanda, Africa. Ph.D., first aid, and fluent French required. Contract for 1 year.

Also position open January 1992 for assistant to director. Bachelor's degree, first aid, and French required.

Send résumé, letter of application including statement of why you wish to work at KRC and special skills useful in conservation and research activities, and three letters of reference to: **The Digit Fund, 45 Inverness Drive East, Englewood, CO 80112.** All materials must be received by 1 May 1991.

THE UNIVERSITY OF CALGARY VICE-PRESIDENT (RESEARCH)

The University of Calgary is seeking a Vice-President (Research). The successful candidate will be appointed initially as Associate Vice-President (Research) effective 1 July 1991 (or as soon as possible thereafter), and will assume the office of Vice-President (Research) on 1 July 1992.

The University of Calgary is a dynamic and innovative research and teaching university of growing national and international stature. Academic programs are offered through 16 faculties in a wide range of undergraduate, graduate, and professional fields. The University of Calgary has an enrolment of more than 20,000 students, with 1,800 faculty and 2,300 support staff. The campus includes 30 buildings on a 122-hectare site. The current operating budget is \$180 million. The value of funded research exceeds \$50 million annually.

Reporting to the President, the Vice-President (Research) is responsible for advancing and supporting university research and technology transfer. The ideal candidate will have: qualifications appropriate to the rank of full professor, a demonstrated record of leadership in research within a university or like institution, senior administrative experience, superior organizational and planning abilities, excellent communications skills and the ability to work effectively within an academic environment, and with senior people in government and industry.

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.

This position represents an important leadership opportunity at one of Canada's finest universities. Applications or nominations should be directed, in confidence, not later than 30 April 1991, to: **Murray Fraser, President, The University of Calgary, 2500 University Drive N.W., Calgary, Alberta T2N 1N4 Canada.**

NIH SEEKS A SECTION CHIEF

National Institute of Allergy and
Infectious Diseases

The Genetics and Transplantation Branch of the Division of Allergy, Immunology and Transplantation is seeking an outstanding Physician (M.D.) or Scientist (Ph.D.) with specific skills in the area of Clinical Transplantation and Transplantation Immunobiology. Candidate should be broadly qualified and should have research experience.

If applicant is a physician, a Transplant Surgeon or Physician with appropriate speciality training is preferred.

Responsibilities will include planning and conducting an extramural scientific research and clinical trial program and will permit the opportunity to maintain an academic affiliation. We offer a competitive salary and outstanding benefits. Physician's comparability pay up to \$20,000 may be applicable. Please contact:

Dr. Robert A. Goldstein
NIAID/National Institutes of Health
Building 31, Room 7A52
9000 Rockville Pike
Bethesda, MD 20892
Phone: (301) 496-1886



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ASSISTANT BIOLOGIST

In order to complete R&D projects, the selected candidate will perform technical tasks such as biochemical and immunoassays, and assist in developing new biotest methodology. This individual will also use various biochemical/immunochemical techniques to purify biological substances, and assist with characterization of the substance.

We require a BS or MS degree in Biology, Biochemistry or Immunology (Microbiology). Some R&D experience including cellular immunology and cell culture preferred.

Abbott offers an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in a suburban setting approximately 30 miles north of Chicago. For consideration, please send your resume to: Ann Ribbens, Corporate Placement, Job #14448, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer.

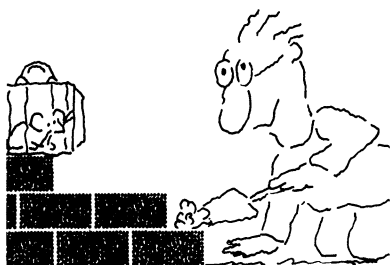
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1515 Broadway
New York, NY 10036

SCIENCE
The Global Weekly of Research

The CARDEZA FOUNDATION FOR HEMATOLOGIC RESEARCH, JEFFERSON MEDICAL COLLEGE, is seeking applicants for positions at the post-doctoral and Assistant Professor levels for basic studies of endothelial cell structure and function as related to hemostasis and thrombosis. Areas of research include endothelial membrane glycoprotein synthesis, structure and function; platelet interactions with endothelial cells; and endothelial-matrix interactions. Candidates should have a working knowledge of tissue culture, membrane and protein biochemical techniques, hybridoma technology and basic techniques of molecular biology. Post-doctoral appointments are for 2-3 years and appointments at Assistant Professor level are for 3-5 years, both renewable. Interested applicants should submit curriculum vitae, a summary statement of their interests and names of three references to Dr. S. Shapiro, Director, Cardeza Foundation for Hematologic Research, Jefferson Medical College, 1015 Walnut Street, Philadelphia, PA 19107.

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ELECTRON & LIGHT MICROSCOPIST B.S./M.S.

Merck, the world leader in medical research, is offering an excellent career opportunity for an experienced electron and light microscopist to join our Department of Bone Biology. The selected candidate will manage the departmental microscopy facility containing extensive TEM/LM, microtomy confocal, image processing and fluorescence capabilities.

Requirements for this position include a B.S./M.S. in biology or the equivalent, a minimum of 5 years experience in TEM, LM, and general photography/darkroom technique, and familiarity with immunocytochemical techniques.

Excellent salary and benefits accompany this position at our modern research facility located 25 miles northwest of Philadelphia. Please send resume and salary requirements to: **Personnel Manager A-7, Research Personnel WP42-2, Merck Sharp & Dohme Research Laboratories, West Point, PA 19486.** An equal opportunity/affirmative action employer.



Merck & Co., Inc.

RESEARCH SCIENTIST

The Department of Anesthesiology at the Nassau County Medical Center is seeking an individual to:

1. Conduct a program of appropriate independent investigation;
2. Plan and supervise the expansion of our present research laboratory facilities;
3. Maintain and supervise our vascular smooth muscle laboratory;
4. Assist the Departmental Staff with research projects;
5. Participate in didactic program for residents.

A Ph.D. degree, good communication and data analysis skills, computer programming knowledge, and publication record are necessary.

The Nassau County Medical Center, located on Long Island, is a 615 bed teaching hospital affiliated with the State University of New York at Stony Brook. Qualified individuals are eligible for academic appointments at that institution.

As public employees of Nassau County, Research Scientists receive excellent salary, benefits and job security. Interested candidates should send their CV and the names of three references in confidence to:

KENNETH J. FREESE, M.D.
Chairman
Department of Anesthesiology



NASSAU COUNTY MEDICAL CENTER
2201 Hempstead Tpke.
East Meadow, NY 11554

Nassau County is an Equal Opportunity Employer

ARCTIC RESEARCH ASSOCIATE

Assists in logistics for Arctic cruises, field programs. Compiles information regarding on-going science programs in Arctic. Interacts with Scientific Staff on behalf of Arctic Research Coordinator. MS preferred. Experience in Arctic research/research management. Facility to communicate with various agencies, inter-agencies, international organizations associated with Arctic Research desired.

Send resume to:

Personnel Office
Box 54PAL



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Woods Hole, MA 02543
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POSITIONS OPEN

DEAN, University of South Florida (USF) College of Medicine. The University of South Florida College of Medicine is seeking applicants for the position of dean. The dean is responsible for the education, research, and clinical programs conducted at the University of South Florida College of Medicine. The college is one of three in the state of Florida. USF opened in 1960 and the College of Medicine began in 1971. USF is the 35th largest university in the nation with more than 30,000 students and is located in an expanding metropolitan area of more than 2 million people. The Health Sciences Center also includes a College of Public Health and a College of Nursing. It has approximately 475 faculty and 96 students in each class. Applicants should have an M.D. degree or equivalent; should have considerable academic, administrative, and leadership skills; and should meet standards for appointment at the full professor level. Applicants should send their curriculum vitae and the names of five references to: **Allan L. Goldman, M.D., Chairman, Dean Search Committee, University of South Florida College of Medicine, Box 19, 12901 Bruce B. Downs Boulevard, Tampa, FL 33612.** USF is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT DEAN COORDINATOR OF INTERNATIONAL PROGRAMS

The College of Agriculture and Life Sciences at North Carolina State University invites applications and nominations for the position of coordinator of international programs to be available 1 July 1991. Duties include providing leadership and coordinating activities for the international programs of the college. Programs will be directed toward international activities in both developed and developing countries, such as student exchanges and study abroad, visiting scholars, and faculty development through collaborative linkages with overseas institutions and traditional technical assistance programs. The coordinator will report to the dean of the college and will collaborate and work with associate deans and directors of research, teaching, and extension as well as department heads in all international aspects of college programs.

A doctorate in agricultural, social, or biological sciences or other closely related field and administrative expertise as well as experience and familiarity with international programs and organizations are required.

Send a letter of application, curriculum vitae, and names, addresses, and telephone numbers of three references: **Dr. Johnny C. Wynne, Chairperson of Search Committee, Box 7620, North Carolina State University, Raleigh, NC 27695-7620.** Applications must be received by 19 April 1991. *North Carolina State University is an Equal Opportunity/Affirmative Action Employer.*

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 in the Department of Pharmacology and/or the Department of Biochemistry and Molecular Biology. Candidates should have primary interests in major psychiatric disorders and be pursuing these interests with 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: **Toshihiko Maruta, M.D., Chairperson of Search Committee, Department of Psychiatry and Psychology, Mayo Medical School, Rochester, MN 55905.** *An Equal Opportunity/Affirmative Action Employer.*

BONUS CIRCULATION FOR YOUR CLASSIFIED AD AT ASM MEETING

Our issue of 26 April 1991 will be distributed to scientists attending the 1991 ASM Meeting in Dallas, Texas. Deadline for submission of line classified ads: 11 April 1991.

SCIENCE Classified Advertising
Telephone: 202-326-6555
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POSITIONS OPEN

TRANSPLANTATION IMMUNOLOGIST DIRECTOR OF RESEARCH

We are seeking a Ph.D. immunologist with postdoctoral experience in transplantation biology to direct research activities in the Section of Transplantation in the Department of Surgery with a joint appointment in the Department of Microbiology. This individual would collaborate with surgeons in the Section of Transplantation and members of the Department of Microbiology and Immunology. This is a full-time academic position at the rank of **ASSISTANT PROFESSOR** or as is commensurate with qualifications. Send curriculum vitae and three professional references to:

Stephen T. Bartlett, M.D.
Associate Professor and Chief
Section of Transplantation Surgery
Division of General Surgery
University of Maryland Hospital
c/o Lois Reisig
405 West Redwood Street, 5th Floor
Baltimore, MD 21201

*Equal Opportunity Employer, M/F/H/V.
Minorities and females are encouraged to apply.*

MANAGER TECHNICAL INFORMATION SERVICES

The Coca-Cola Company is seeking a manager, Technical Information Services, to manage the resources library for its technical division. Responsibilities include supervising the acquisition, cataloging and circulation of books, periodicals and other published materials; managing the automation of library systems; preparing a quarterly literature awareness bulletin and announcements of recent literature searches and Company reports; assisting in literature searching and general reference work; supervising two information scientists and two library assistants; preparing and managing an annual budget. Qualifications for the position include 5 to 7 years in a technical library setting; experience with library and special project management; bachelor's degree in a natural or applied science plus a master's degree in library science. *The Coca-Cola Company is an Equal Opportunity Employer.*

Resumes, along with salary history, should be sent to: **The Coca-Cola Company, Corporate Staffing, Department LP, P.O. Drawer 1734, Atlanta, GA 30301.**

FACULTY POSITIONS IN NUTRITIONAL BIOCHEMISTRY. The Department of Nutrition of Case Western Reserve University is undergoing major expansion at Mount Sinai Medical Center in Cleveland. We seek two investigators working on the regulation of carbon flux through the pathways of nutrient metabolism, in humans and in animal models. Candidates are expected to develop independent research programs using modern techniques of stable isotope technology, biochemistry, or molecular biology. They will teach at the graduate level and train graduate students and postdocs. Submit curriculum vitae, representative reprints, description of research plans, and three letters of reference to: **Dr. Henri Brunengraber, Chairman, Department of Nutrition, Case Western Reserve University, Cleveland, OH 44106.** *Case Western Reserve University is an Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.*

CASTLETON STATE COLLEGE. BIOLOGY FACULTY VACANCY. Castleton State College seeks a fourth biologist for the 1991 to 1992 academic year and following in what will likely be a tenure-track appointment. Salary is based on degrees and experience according to a negotiated contract. The primary teaching responsibility will be to collaborate in teaching human anatomy and physiology. The successful applicant will be a dynamic educator with a Ph.D. in biology (strong ABD's considered). The candidate will be able to teach courses in specialty such as vertebrate biology, physiology or cell biology. Ability to teach introductory chemistry is desirable. The candidate should be able to work effectively with colleagues and students as well as contribute to the vitality and growth of the department. The position will begin in fall of 1991. Application material must include a resume, statement of teaching and research interests, three letters of reference and transcripts. Materials should be sent to the address below. Review of applicants will begin on 8 April 1991. **Dr. Joseph T. Mark, Academic Dean, Biology Search, Woodruff Room 3, Castleton State College, Castleton, VT 05735.** *Equal Opportunity Employer.*

MOLECULAR BIOLOGY & GENETICS

Several faculty and staff positions to be filled during the next 2-3 years as part of a major expansion and modernization of the Department of Biochemistry & Molecular Biology at the Albany Medical College. Currently available positions include:

- 2 Full Professors
- 2 Associate Professors
- 3 Assistant Professors
- 10 Postdoctoral Fellows & Technicians

The Albany Medical College has made a major commitment to the growth and development of molecular biology and molecular genetics. The newly constituted Department of Biochemistry & Molecular Biology will occupy state-of-the-art laboratories in a modern research building. Shared departmental facilities will include an extensive cell-culture complex and major equipment for modern biology. Competitive salaries and start-up funds will be offered to qualified candidates.

The Albany Medical College (Est. 1839) has a proud history of research, teaching, and patient care. The city of Albany, state capital of New York, offers an excellent lifestyle with easy access to New York City, Boston, and Montreal. Surrounding rural communities offer everything from the splendor of the Adirondack mountains to the quiet charm of the Berkshire foothills.

Departmental interests center on the regulation of gene expression, but exceptional candidates in any area of molecular biology or molecular genetics will be seriously considered. The successful faculty candidates will be expected to establish vigorous independent research programs and attract substantial external funding. Please send *curriculum vitae*, statement of research interests and goals, and the names of at least three references to:

Professor Kelvin J. A. Davies, Chairman
Department of Biochemistry & Molecular Biology
The Albany Medical College
New Scotland Avenue
Albany, New York 12208

An Equal Opportunity/Affirmative Action Employer.

CHIEF, LABORATORY OF IMMUNOLOGY DIVISION OF BACTERIAL PRODUCTS CENTER FOR BIOLOGICS EVALUATION AND RESEARCH DHHS/PHS/FOOD AND DRUG ADMINISTRATION

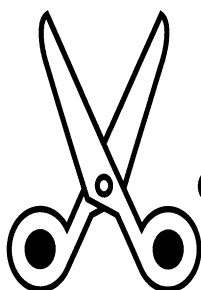
The Food and Drug Administration (FDA), Center for Biologics Evaluation and Research (CBER), Division of Bacterial Products, invites applications for the position of Chief, Laboratory of Immunology, located in Bethesda, Maryland. The Laboratory is responsible for the research and regulatory programs related to the immune response to bacterial vaccines and related biologics. This is a supervisory interdisciplinary position appropriate for a chemist, microbiologist, or biologist with post-graduate training. Physicians may also apply for this position; if selected, additional responsibilities would include medical evaluation of selected clinical studies for the Laboratory and the Division of Bacterial Products, and may include the performance of clinical studies. The Laboratory Chief is responsible for independently planning, organizing, and conducting research in molecular, cellular and applied immunology for understanding and predicting the immune response to existing and future vaccines for significant bacterial infections. Therefore, an extensive background in immunology and demonstrated experience in directing a research laboratory or program is required.

Salary range for chemist, microbiologist, and biologist is \$52,406 to \$68,129 at the GM-14 level and \$61,643 to \$80,138 at the GM-15 level. Salary range for physician is \$61,141 to \$76,864 at the GM-14 level and \$65,753 to \$84,248 at the GM-15 level. Physicians may also be eligible for a Physician's Comparability Allowance up to \$20,000 per year. Salary is commensurate with education and experience. The grade of the position depends upon the research qualifications of the candidate as determined by the CBEP Peer Review Board. U.S. citizenship is required.

Application for Federal Employment (SF-171) or resume must be received at the following address no later than April 25, 1991:

FDA/Center for Biologics Evaluation and Research
Attention: Ms. A. J. Wilcox, DBP2
NIH Building 29, Room 104
8800 Rockville Pike
Bethesda, MD 20892

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POSITIONS OPEN

TENURE-TRACK POSITION IN GASTROINTESTINAL CELLULAR BIOCHEMISTRY

Applications are invited for a tenure-track position at the ASSISTANT/ASSOCIATE/FULL PROFESSOR level in the Department of Internal Medicine, School of Medicine, St. Louis University. We are seeking a person with high promise in research who is interested in working on the biochemical basis of gastrointestinal cell function. Applicants must have a Ph.D. in biochemistry or cell biology or an M.D. degree with at least 2 years of relevant postdoctoral experience. Submit curriculum vitae, a statement of research interests, and three letters of recommendation to: **Jerry D. Gardner, M.D., Associate Chairman, Department of Internal Medicine, St. Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104.** St. Louis University is an Affirmative Action/Equal Opportunity Employer.

CAREER SCIENTIST (TENURE-TRACK FACULTY). Position with primary appointment in the Department of Anesthesiology and possible joint appointment in a basic science department. Candidate should possess a Ph.D., M.D., or equivalent degree with postdoctoral experience and demonstrated ability to attract extramural research funding. Primary research interests should be in the areas of molecular pharmacology, physiology, or biochemistry with direct or indirect applicability to anesthesiology, critical care medicine, or pain management. Generous laboratory space and start-up funds provided. Academic rank will be determined by qualifications. Established investigators are especially encouraged to apply. Please send a description of research interests, curriculum vitae, and names and telephone numbers of three references to: **P. R. Housmans, M.D., Ph.D., Mayo Medical School, Rochester, MN 55905** by 1 May 1991. Mayo Foundation is an Affirmative Action/Equal Opportunity Educator and Employer.

FACULTY POSITION: ASSISTANT PROFESSOR

The Department of Obstetrics and Gynecology at The University of Alabama at Birmingham has a faculty position open in the Division of Reproductive Biology and Endocrinology. Applicant should be U.S. citizen with a Ph.D. in endocrinology, physiology or embryology obtained from a U.S. university. The applicant should have 2 to 3 years postdoctoral fellowship in reproductive endocrinology and must have had hands-on experience in standard and natural cycle IVF. A strong research background with an interest in ovarian follicle physiology is required. The position is at the assistant professor level, tenure-earning. The applicant should be available to assume clinical IVF duties mid-summer, 1991.

Please send curriculum vitae and the names of three references by 15 May 1991 to: **Richard E. Blackwell, Ph.D., M.D., Professor and Division Director, Department of Obstetrics and Gynecology, The University of Alabama at Birmingham, UAB Station, Birmingham, AL 35294.** An Equal Opportunity/Affirmative Action Employer.

MOLECULAR NEUROBIOLOGY POSTDOCTORAL POSITIONS NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM

The Section on Molecular Neurobiology, National Institute on Alcohol Abuse and Alcoholism (NIAAA) has a position available beginning 1 July 1991 to (i) study the structure and function of GABA_A receptors using mutagenesis techniques and (ii) investigate the molecular basis of alcohol's effects on GABA_A receptor function. Approaches to be used include: PCR techniques, *Xenopus* oocyte expression, site-directed mutagenesis, ligand binding, and electrophysiology. Applicants must have less than 3 years previous postdoctoral experience. Annual salary is \$25,000 to \$28,000. Applicants with expertise and interests in molecular neurobiology, *Xenopus* expression systems, and electrophysiology are encouraged to apply. Please send curriculum vitae and three letters of reference to: **Claire M. Fraser, Ph.D., Chief, Section on Molecular Neurobiology, Laboratory of Physiologic and Pharmacologic Studies, NIAAA, 12501 Washington Avenue, Rockville, MD 20852.**

ADAMHIA is an Equal Opportunity/
Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITIONS DEPARTMENT OF SURGERY THE UNIVERSITY OF CHICAGO

The Department of Surgery at the University of Chicago wishes to invite applications and nominations for several tenure-track positions to be filled in the 1991 to 1992 academic year. Candidates should be Board-certified or Board-eligible in their specialty. In addition to general surgery, positions are available in cardiac surgery, neurosurgery, oral and maxillofacial surgery, orthopaedic surgery, otolaryngology/head and neck surgery, pediatric surgery, plastic and reconstructive surgery, thoracic surgery, transplantation surgery, vascular surgery, and urology. Responsibilities will include teaching, clinical and/or basic research, and patient care. Applications should include curriculum vitae, a list of publications, and the names of at least four individuals from whom letters of reference may be solicited. While we have no formal deadline, we would appreciate receiving applications by 15 October 1991. Please send applications or nominations to:

**George E. Block, M.D., Acting Chairman
Department of Surgery
The University of Chicago
5841 South Maryland Avenue, Box 168
Chicago, IL 60637**

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

POSTDOCTORAL POSITIONS WALTHER ONCOLOGY CENTER INDIANA UNIVERSITY SCHOOL OF MEDICINE

Postdoctoral positions are available to study the molecular and cellular biology of two newly isolated lymphokines, IL-9 and IL-11.

Candidates with a Ph.D. degree interested in applying contemporary techniques of molecular biology and receptor biochemistry to understand the role of these growth factors should send their curriculum vitae and addresses of three references to:

Dr. Yu-Chung Yang, Walther Oncology Center, Indiana University School of Medicine, Room 540 Medical Research and Library Building, 975 West Walnut Street, Indianapolis, IN 46202.

Candidates with background in molecular biology or biochemistry will be preferred although not required for these positions.

Walther Oncology Center is an Equal Opportunity Employer.

POSTDOCTORAL POSITION THE WISTAR INSTITUTE

A postdoctoral position is available to characterize a newly discovered enzymatic activity, "RNA duplex unwinding" and to understand its physiological roles. The activity is very novel, capable of unwinding double-stranded RNAs by modifying many adenosine residues to inosine and creating I-U mismatched base-pairings. The activity is likely to affect/regulate the secondary structures, processing, and turnover of various eukaryotic as well as viral transcripts [Nature, 337, 19-20 (1989); Cell, 56, 331 (1989)]. Applicants should have training in protein chemistry, biochemistry, or molecular biology. The Wistar Institute is located within the University of Pennsylvania campus, and is devoted to basic research.

Interested persons should send curriculum vitae, reports, related experiences, and a list of at least three references to: **Dr. Kazuko Nishikura, The Wistar Institute, 36th and Spruce Streets, Philadelphia, PA 19104.** An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. In muscle physiology/locomotion. My laboratory studies muscle function during locomotion using kinematic analysis, muscle mechanics, histology, EMGs, and electrophoresis. Skill in some of the above as well as computer programming and electronics helpful. The University of Pennsylvania houses the Pennsylvania Muscle Institute, with many working on cellular aspects of muscle contraction. Please send/FAX curriculum vitae immediately to: **Dr. Larry Rome, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104.** FAX: 215-898-8780.

POSITIONS OPEN

POSTDOCTORAL POSITION. Available to study germ cells and early development in the mouse. Apply with curriculum vitae to: **Dr. R. L. Brinster, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA 19104.**

POSTDOCTORAL POSITION. Currently available to study the molecular biology of mutagenesis in bakers' yeast. Work in progress is concerned with analyzing cloned genes and gene products involved in mutagenesis, and with experiments using vectors that carry a single defined mutagenic lesion. Send curriculum vitae and three letters of reference to: **Dr. Christopher W. Lawrence, Department of Biophysics, University of Rochester Medical Center, Rochester, NY 14642.** Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL POSITIONS. Available in the Department of Physiology. Research areas are: (i) cell biology of lung microcirculation; hormonal regulation of macromolecular transport, calcium imaging and eicosanoid metabolism in endothelial monolayers (Dr. Richard C. Schaeffer); and (ii) regulatory mechanisms in systemic microcirculation; metabolic studies in tissue with optical techniques, electrophysiology of blood vessels, tissue oxygen exchange, cellular mechanisms of regulation (Dr. Paul C. Johnson). Start dates and salaries negotiable. Applications from U.S. citizens or permanent residents will be accepted until positions are filled on 1 March 1992, whichever is earlier. Send curriculum vitae and three letters of reference to Drs. Schaeffer or Johnson, c/o

**Department of Physiology
College of Medicine
University of Arizona
Tucson, AZ 85724**

The University of Arizona is an Affirmative Action/Equal Opportunity Employer. Female and minority members are urged to apply.

GLYCOLIPID-ANCHORED PROTEINS

POSTDOCTORAL POSITION. To study biochemical and cell-biological aspects of the biosynthesis of glycosphospholipid-anchored membrane proteins. Send curriculum vitae, two letters of recommendation, and transcripts to: **A. M. Tartakoff, Pathology, Case Western Reserve University School of Medicine, 2085 Adelbert Road, Cleveland, OH 44106.**

POSTDOCTORAL POSITION. In molecular biology to study aging of human fibroblasts and *C. elegans*. Duties (experience essential) are to culture cells, prepare nuclear extracts, and assay recA and related activities; to prepare and screen genomic libraries in plasmid, lambda and YAC vectors; and to prepare/analyze aging cohorts. Salary \$22,307 per year; 40 hours per week. Send résumé to: **Employment Services Division, P.O. Box 34047, Little Rock, AR 72203.** Job order #538680. Must have proof of legal authority to work in the United States.

POSTDOCTORAL POSITION AT THE UNIVERSITY OF CONNECTICUT. To join a multidisciplinary research group to study molecular mechanism of mutagenesis induced by chemical carcinogens using a site-specific approach. Ph.D. in one of the chemical or biomedical areas with experience in basic molecular biology techniques is required. Salary \$22,000 per year or more depending on qualifications. Send curriculum vitae and the names of three references to: **Professor Ashis Basu, University of Connecticut, Department of Chemistry, U-60, Storrs, CT 06269-3060.** Affirmative Action/Equal Opportunity Employer. (Search #1A242.)

POSTDOCTORAL POSITION IN REPRODUCTIVE ENDOCRINOLOGY. This unique opportunity in the Reproductive Endocrine Unit of Massachusetts General Hospital (Harvard Medical School) combines basic research on local regulators of gonadal physiology with clinical application of results to understanding disease states. The specific project involves characterization and regulation of posttranslational processing of inhibin subunits using a variety of biochemical and molecular techniques. Applicants should have experience in either protein purification and characterization or molecular biology. Send curriculum vitae, statement of research goals, and names of three references to: **Dr. Alan Schneyer, Ph.D., Reproductive Endocrine Unit, Massachusetts General Hospital, Boston, MA 02214.**

GIS MANAGER NATURAL RESOURCES RESEARCH INSTITUTE UNIVERSITY OF MINNESOTA, DULUTH

This is an academic position which is open at the level of Research Fellow (M.S./M.A.) or Research Associate (Ph.D.).

Minimum Qualifications: M.S./M.A. degree in geography, computer science or related field with coursework and/or significant experience in Geographic Information Systems (GIS) and computer programming. M.S./M.A. or Ph.D. degree must be completed by starting date of appointment.

Desired Qualifications: M.S./M.A. or Ph.D. degree in geography, computer science, or related field with coursework emphasis in Geographic Information Systems (GIS), computer cartography, computer programming, remote sensing, and quantitative methods. Working knowledge of DOS, UNIX, and VMS operating systems. Two or more years experience with: 1) GIS software, particularly ARC/INFO and ERDAS, 2) workstation and microcomputer operation, and 3) peripherals required for entering and plotting mapped data. Some experience in computer programming (ARC/INFO AML, C). Demonstrated ability to provide training/teaching.

Responsibilities: Manage an academic GIS facility, established through an NSF Biological Facilities Grant, which specializes in the application of GIS to ecological and natural resources research. Work with principal investigators to develop GIS methods and applications. Maintain equipment and software. Develop and document GIS procedures and programs to facilitate GIS use. Train new users of the facility.

Appointment: Initial appointment will be for two years beginning summer 1991. Continuation based on performance.

Send an application letter and current resume, and the names, addresses, and telephone numbers of three references to:

**GIS Manager Search Committee
Natural Resources Research Institute
University of Minnesota, Duluth
5013 Miller Trunk Highway
Duluth, MN 55811**

Applications must be postmarked by June 15, 1991. Writing samples may be requested at the time of interview.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, religion, color, sex, national origin, handicap, age, veteran status, or sexual orientation.

Protein Chemist — Biochemist

The Biomedicine and Health Program at the Australian Nuclear Science and Technology Organisation is seeking outstanding individuals to develop radioimmunopharmaceuticals for diagnosis with PET and SPECT, and for therapeutic applications. Successful applicants will form a multi-interdisciplinary team addressing needs of Australian nuclear medicine.

Our goal is improving health care delivery through innovative research, market-driven product development, and global collaboration with academia and industry.

The National Medical Cyclotron and the joint Ansto/RPAH PET Centre will be commissioned at the Sydney location during 1991. A medical cyclotron and PET will be installed at Austin Hospital, Melbourne in 1992.

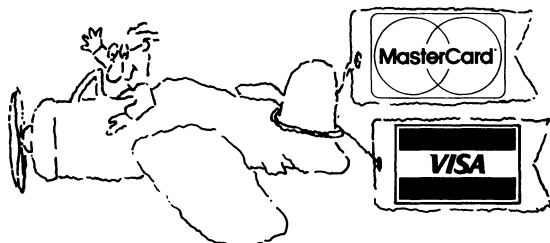
Applicants must have a PhD preferably with 1-3 years postdoctoral experience in protein, immuno or biochemistry. For permanent appointments applicants must be Australian citizens. Opportunities for sabbatical and term contracts are also available.

Expressions of interest along with resumé nominating 3 referees should be sent to:

**Dr R.M. Lambrecht, Director, Biomedicine & Health Program, PMB 1, Menai, NSW 2234, Australia.
Phone: 61 2 543 3939. Fax: 61 2 543 9262.**

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Univax Biologics Inc.'s primary objective is the development of new vaccines for the use in the production of intravenous immunoglobulin for therapeutic and prophylactic treatment of life threatening infectious diseases. The Company is now seeking to significantly expand its research and development group and is seeking ambitious and dedicated individuals in the following areas:

Project Leader—Vaccine Development

Responsible for the activities involved with the development and validation of a vaccine for bacterial disease. The successful candidate will have at least three years' experience in vaccine development with a good working knowledge of antigen purification & characterization as well as conjugation & process validation. Demonstrated ability to manage a group of 3-5 individuals and the capability of managing interactions with key resources both within and outside the Company.

Organic Chemist

We are seeking a Ph.D. level organic chemist with a demonstrated ability to develop and validate new methods for synthesizing a variety of immunogens and polysaccharide-protein conjugates. Previous experience in a GMP setting and direct experience with polysaccharides are highly desirable.

Carbohydrate Chemist

We are seeking a Ph.D. level carbohydrate chemist with a background in the immunology and immunochemistry of polysaccharides. Ability to characterize polysaccharides and lipopolysaccharides and standardize methods of purification and large scale production is essential.

Research Technician

The Company is looking for several individuals to provide technical support for vaccine development programs. Individuals with either a B.S. or M.S. in biology, biochemistry, microbiology, or immunology, and several years' experience are invited to apply. Working knowledge of ELISA, in vitro cell assays, antigen purification, and immunochemistry is desirable.

Univax Biologics Inc. offers a dynamic work environment, a competitive salary and benefits program, and equity participation plans. We are an equal opportunity employer. Send resumes to 12280 Wilkins Avenue, Rockville, Maryland 20852.

Public Health Service
National Institutes of Health
National Institute of Environmental
Health Sciences
Research Triangle Park,
North Carolina

**VETERINARY MEDICAL
OFFICER/TOXICOLOGIST
GM-15**

(Salary Range: \$61,643 - \$80,138)

Or

**VETERINARY MEDICAL
OFFICER/TOXICOLOGIST
GM-14**

(Salary Range: \$52,406 - \$68,129)

The Division of Toxicology Research and Testing (DTRT), an operating component of the National Toxicology Program (NTP), is seeking applicants for a permanent position as Veterinary Medical Officer/Toxicologist, GM-15 to serve as Head, Study Design Group or as Veterinary Medical Officer/Toxicologist, GM-14, to serve as scientist in the Chemical Carcinogenesis Branch (CCB). The CCB sets priorities, designs, conducts, evaluates and reports long-term toxicity and carcinogenicity evaluations in rodents on chemicals of environmental concern. A majority of the studies are performed in laboratories under contract to the NTP but has limited in-house research capabilities for short-term and long-term studies. The NTP disseminates the results of its long-term and short-term studies to other government agencies and the scientific community through the publication of NTP Technical Reports and by publications in the scientific literature. The selectee, depending on his/her background will also assist in pharmacokinetics, chemical selection, monitoring of the laboratories conducting the studies or in the evaluation and reporting of the studies. The selectee will interact with chemists, toxicologists, pathologists and with other discipline leaders within DTRT and with scientists from government regulatory agencies, private industry and consumer groups on the chemistry, design, or evaluation of NTP long-term toxicity and carcinogenicity studies on environmental chemicals and their potential to be hazardous for man. The selectee will also be expected to participate in studies that will aid in our understanding of rodent carcinogenicity studies and their relevance for hazard identification for man. The incumbent must possess a DVM, Sc.D., MD, Ph.D., or equivalent in toxicology, pathology or related field and significant research experience. Board certification (ABT) or ACVP is desirable for the scientist position but required for Head of Study Design. U.S. citizenship is required.

For additional information, contact Norma Daye or Lisa Rogers at 919-541-7811. To apply, submit curriculum vitae and the names of three references by May 3, 1991 to:

**Norma Daye (Code: HNV27)
NIEHS Personnel Office
PO Box 12233
Research Triangle Park,
NC 27709**

NIH is an Equal Opportunity Employer

POSITIONS OPEN

POSTDOCTORAL POSITION

A postdoctoral position is available to study genetic abnormalities in urologic malignancies. Expertise in molecular genetics is required. Send curriculum vitae and three letters of reference to: **Dr. John Libertino, Lahey Clinic Medical Center, Department of Urology, 41 Mall Road, Burlington, MA 01805. Equal Opportunity Employer.**

POSTDOCTORAL POSITION IN VISUAL NEUROSCIENCE. Available in laboratory studying neural circuits (and neurotransmitters) of visual thalamus and cortex by means of neuroanatomical (LM, EM), immunocytochemical and electrophysiological techniques. Experience in these techniques preferable. Support available for 3 years. Send curriculum vitae and names of three references to: **Dr. V. M. Montero, Department of Neurophysiology, University of Wisconsin, 621 Waisman Center, Madison, WI 53705. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY. Available immediately to develop program to humanize and modify murine monoclonal antibodies. Experience in cloning, sequencing, and mammalian cell expression required, working knowledge of immunogenetics desirable. Send curriculum vitae to: **Dr. Roberto Ceriani, John Muir Cancer and Aging Research Institute, 2055 North Broadway, Walnut Creek, CA 94596.**

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POSTDOCTORAL POSITION IN MOLECULAR GENETICS OF HYPERTENSION. Is available for the identification and characterization of genes controlling blood pressure in genetically hypertensive rats. Techniques include library construction, cloning, RFLP analysis, sequencing, transgenic animals, etc. Applicants must have Ph.D., M.D., D.V.M., or equivalent degrees and be citizens or permanent residents of the United States. Experience in microbiology, genetics, or molecular biology is desirable. Send curriculum vitae to: **Dr. John Rapp, Department of Medicine, Medical College of Ohio, C.S. 10008, Toledo, OH 43699. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION. Available immediately to join an interdisciplinary research group investigating the role of monoamines in function recovery after brain injury. Candidates should have experience with HPLC and/or microdialysis. Funding is for 3 years with opportunity for appointment as senior research associate. Send statement of research interests, curriculum vitae, and names of three references to: **Dr. D. M. Feeney, Department of Psychology, The University of New Mexico, Albuquerque, NM 87131. Telephone: 505-277-8946; FAX: 505-277-1394.**

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY OF PRIMATE POLYOMAVIRUSES. Investigation of molecular biology of polyomavirus persistence and transformation of permissive and human cells. Applicants must have completed Ph.D. in virology or molecular biology. Send curriculum vitae, statement of interests, and three letters of recommendation to: **Frank O'Neill, Ph.D., University of Utah, Department CVMB and VA Medical Center (151E), Salt Lake City, UT 84148.**

SYSTEMS PHYSIOLOGY-BIOMEDICAL ENGINEERING. Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University, has an opening for **POSTDOCTORAL** or **INSTRUCTOR LEVEL PHYSIOLOGIST** or **BIOMEDICAL ENGINEER** to work on NIH-funded studies relating cardiovascular respiratory interactions, splanchnic blood flow and sepsis including computer modeling. Collaborative studies ongoing with multiple basic science and clinical groups on a wide range of subjects. Substantial achievement with evidence of independent abilities will lead to consideration for a tenure-track position. Send curriculum vitae, names of references, and a brief statement of research experience and interests to: **James L. Robotham M.D., Director of Pulmonary Anesthesiology Laboratory, Department of Anesthesiology/CCM, Blalock 15, Johns Hopkins Hospital, 600 North Wolfe Street, Baltimore, MD 21205. The Johns Hopkins University School of Medicine is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION. At Oak Ridge National Laboratory (ORNL) to do research on ultra-sensitive detection techniques as applied to DNA sequencing problems. Degree in analytical/physical chemistry or applied physics with background in optical spectroscopy preferred; should have experience with lasers and optics and background in instrumentation. For position information, contact: **J. Michael Ramsey, ORNL, P.O. Box 2008, Oak Ridge, TN 37831-6142.** For application material, contact: **Postgraduate Research Program/Genome, Science/Engineering Education Division, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: 615-576-3456.**

POSTDOCTORAL POSITIONS IN GENE THERAPY

Somatix Therapy Corporation is a leading biotechnology company developing programs in gene therapy and cellular transplantation. Postdoctoral positions are available for recent Ph.D.'s to work in the area of retroviral-mediated gene transfer in mammalian cells. Candidates should have experience with retroviruses, primary cell culture, and recombinant DNA techniques. Please submit curriculum vitae to: **Department #19, Personnel Department, Somatix Therapy Corporation, 850 Marina Village Parkway, Alameda, CA 94501. Equal Opportunity Employer.**

POSTDOCTORAL—MARINE POPULATIONS

Quantitative biologist with experience in modeling and analysis of population dynamics involving environmental forcing and spatial structure. Requires the ability to integrate information from physical oceanography, physiological ecology, and population biology, and some facility with implementing computer simulations of population models. Familiarity with marine systems and oceanography of the California Current will be an asset. Interested parties please send letter of application, curriculum vitae, and three letters of reference to: **Louis W. Botsford, Center for Population Biology, University of California, Davis, CA 95615, by 1 May 1991. The University of California is an Affirmative Action/Equal Opportunity Employer.**

ASSOCIATE-POSTDOCTORAL POSITION

Applications are invited for a postdoctoral position as an associate to work in the laboratory of Dr. Robert Nussbaum, whose current research involves studies of X-linked human disease, using genomic approaches. Projects include investigation of Lowe Syndrome, Fragile X Syndrome, and physical mapping studies using yeast artificial chromosomes, pulse field gel analysis, and cDNA cloning and analysis. Qualified candidates should possess a Ph.D. in molecular biology or genetics. Please forward your curriculum vitae and three letters of recommendation to: **Dr. Robert Nussbaum, University of Pennsylvania School of Medicine, 422 Curie Boulevard, Philadelphia, PA 19104-6145. We are an Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS. Now available to study the molecular biology of proteolytic processing enzymes required for synthesis of peptide hormones and neurotransmitters. This project involves molecular cloning and expression of proteases involved in processing enkephalin, tachykinin, and other neuropeptide precursors. Experience in molecular biology and/or protein/peptide biochemistry are required. Candidate should have recently obtained a Ph.D. in biochemistry, molecular biology, molecular neurobiology, or appropriate discipline. Please send curriculum vitae and names of three references to: **Dr. Vivian R. Jerrells, Department of Biochemistry, Uniformed Services University of the Health Sciences, Bethesda, MD 20814.**

POSTDOCTORAL FELLOW. A position is open to study the effects of ethanol and other drugs of abuse on the immune system. Areas of research include immune mechanisms of resistance to infectious agents including bacteria and viruses, T- and B-cells interactions, in vitro and in vivo molecular aspects of T- and B-cell activation, and T-dependent antibody production to defined antigens. A Ph.D., in immunology/microbiology is preferred. Send curriculum vitae and the names of three references to: **Dr. Thomas R. Jerrells, Department of Cellular Biology and Anatomy, Louisiana State University Medical Center at Shreveport, P.O. Box 33932, Shreveport, LA 71130-3932. An Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL FELLOW POSITIONS in neuroscience at the Addiction Research Center. Topics of research include: characterization and purification of drug and neurotransmitter receptors: cocaine receptors; neurotransmitters of reward and addiction; effects of drugs on neurotransmitter systems. Salaries range from \$29,000 to approximately \$49,000 depending on experience and qualifications. Benefits and relocation expenses may be available. Previous postdoctoral experience desirable but not necessary. Send curriculum vitae to: **Dr. Michael J. Kuhar, NIDA Addiction Research Center, P.O. Box 5180, Baltimore, MD 21224.** *The Alcohol, Drug Abuse and Mental Health Administration is an Equal Opportunity Employer. ADAMHA is smoke-free and drug-free.*

POSTDOCTORAL FELLOWSHIPS. Department of Cellular and Developmental Biology and Organismic and Evolutionary Biology, Harvard University. A limited number of postdoctoral research positions become available from time to time. Some appointments are funded through research grants awarded to faculty members and are ordinarily for 1 year, sometimes renewable, other appointments are possible through postdoctoral fellowships. For a list of faculty members who have postdoctoral positions available, write to the respective department office: **Harvard University, 16 Divinity Avenue, Cambridge, MA 02138.** (Do not send applications). *Harvard University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIPS IN MOLECULAR NEUROIMMUNOLOGY AND NEUROIMMUNOMODULATION at the University of Alabama at Birmingham are available 1 July 1991, supported by an NIH Training Grant for basic scientists or clinicians to conduct research on the molecular basis of neuroimmunology, neuroimmunomodulation, and the bidirectional communication between the nervous and immune systems. Preceptors and areas of interest are as follows: E. N. Benveniste, Ph.D. (cytokines and glia); J. E. Blalock, Ph.D. (neuroimmunomodulation: lymphocyte-derived hormones); E. J. Dropcho, M.D. (paraneoplastic neurological disorders); M. L. Egan, Ph.D. (immunoregulation and natural killer cells); G. Y. Gillespie, Ph.D. (immune response to glial tumors); J. D. Neill, Ph.D. (neuro-endocrinology); D. A. Weigant, Ph.D. (growth hormone and the immune system); and J. N. Whitaker, M.D. (immunochemistry and degradation of myelin basic protein). Interested applicants should submit a letter stating their specific interests, curriculum vitae, and names of three references by 20 April 1991 to: **John N. Whitaker, M.D., Department of Neurology, University of Alabama at Birmingham (UAB), Birmingham, AL 35294. Telephone: 205-934-2402.** *UAB is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL FELLOWSHIPS FOR TRAINING IN IMMUNOLOGY AND VIROLOGY AT THE UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER. Cellular immunology: Robert E. Humphreys, M.D., Ph.D.; Lawrence Jung, M.D.; Alan D. Michelson, M.D.; Carol L. Miller, Ph.D.; David C. Parker, Ph.D.; Paul L. Romain, M.D.; Robert T. Woodland, Ph.D. Viral immunology: Neil R. Blacklow, M.D.; Francis A. Ennis, M.D.; John E. Herrmann, Ph.D.; Ichiro Kurane, M.D.; Takeshi Sairenji, Ph.D.; John L. Sullivan, M.D.; Raymond M. Welsh, Ph.D. Experimental diabetes: Michael C. Appel, Ph.D.; Arthur A. Like, M.D.; Aldo A. Rossini, M.D.; Bruce A. Woda, M.D. Molecular virology: Christie A. Holland, Ph.D.; Trudy G. Morrison, Ph.D.; Carel Mulder, D. Phil.; Ronald M. Iorio, Ph.D.; Harriet L. Robinson, Ph.D. Molecular immunology: Simon K. Lawrence, Ph.D.; John E. Mole, Ph.D.; Peter E. Newburger, M.D.; Janet Stavnezer, Ph.D. Candidates interested in joining this active, multidisciplinary, NIH-supported training program should send a résumé, the names of three references, and a letter stating their research interests and the laboratories in which they would be interested in undertaking training to: **Dr. Harriet Robinson, Department of Pathology, University of Massachusetts Medical Center, Worcester MA 01655.** *The University of Massachusetts Medical Center is an Affirmative Action/Equal Opportunity Employer.*

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CARDIOVASCULAR METABOLIC RESEARCH GROUP Molecular Neurobiology Research Scientist - Ph.D.

An opportunity exists for a Ph.D. with 3-5 years post-doctoral experience in the use of molecular biological techniques applied to neuronal systems, to join a growing team of scientists involved in the cloning and expression of receptors/channels and their study. The ideal candidate will have direct experience in designing and optimizing prokaryotic and mammalian expression systems, PCR amplification and site-directed mutagenesis. Familiarity with transcriptional regulatory factors and/or second messenger systems is also desirable. The candidate will interact with a broadly trained group of biochemists, electrophysiologists and pharmacologists to implement new drug discovery efforts in the CNS area. We are seeking applicants with a strong history of scientific achievement and a demonstrated ability to conduct innovative research. **Position #317.**

Ion Channel Research Research Scientist - Ph.D.

We are seeking a candidate with a Ph.D. in Physiology, Pharmacology or Biophysics with 3-5 years relevant post-doctoral experience to join an active research program in the study of ion channels and their modulation by drugs. The ideal candidate will be expert in the use of patch clamp techniques applied to the study of voltage-gated and/or metabolically activated K⁺ channels at both whole cell and single channel levels, and will interact with an interdisciplinary team of cardiovascular and neuroscientists engaged in the design and discovery of new therapeutic agents. Candidates should be familiar with membrane current measurements in freshly dissociated neuronal cell preparations and the use of oocyte and mammalian cell expression systems. Candidates should be capable of conducting an independent research program and maintaining a high level of productivity through scientific publications. **Position #300.**

Pharmacologist - B.S./M.S.

An opening exists for a B.S. candidate with 3-5 years experience or an M.S. candidate with 2-4 years experience to conduct cellular electrophysiology studies using whole cell and single channel patch clamp techniques. The candidate will be well trained in methods of dissociating and maintaining single cells from cardiac or neural preparations, and expert in the measurement of whole cell currents. Familiarity with computer-based data acquisition and analysis is required. Experience with single channel recordings a plus. The candidate will become an integral part of a well-established interdisciplinary research effort aimed at designing novel drugs targeted at ion channels. Independence and professional growth will be strongly encouraged through direct participation in internal research meetings and the publication of original research findings. **Position #333.**

We offer an excellent compensation and benefits package. Forward resume and salary requirements, stating appropriate position number, to: **Wyeth-Ayerst Research, Personnel Manager, CN 8000, Princeton, NJ 08643-8000.** An Equal Opportunity Employer, M/F/H/V. Principals only.



POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP. Available immediately for molecular biologist with recent Ph.D. to work on the expression of mammalian antibodies in nonmammalian systems. Applicants should have experience in molecular cloning techniques: a working knowledge of immunology/protein chemistry would be advantageous. The appointment is for a 2-year period at a salary of approximately \$32,000 Canadian. Please send curriculum vitae and references to: **Dr. G. C. Randall, Animal Diseases Research Institute, P.O. Box 11300, Station "H", Nepean, Ontario K2H 8P9 Canada.**

PREDOCTORAL FELLOWSHIPS AND RESEARCH ASSISTANTSHIPS. Opportunities exist for cross-disciplinary research projects on microbial biofilms in a unique work environment with students in other disciplines. Students will work toward degree programs in microbiology, chemistry, or engineering in the newly established National Science Foundation Center for Interfacial Microbial Process Engineering. Annual stipends range from \$10,000 to \$13,000 per year with tuition remission. Submit inquiries to: **Dr. John Sears, Department of Chemical Engineering or Dr. Gill Geesey, Department of Microbiology, Montana State University, Bozeman, MT 59717.**

POSTDOCTORAL FELLOW UNEXPECTED OPENING FOR JULY 1991

M.D. or Ph.D. interested in exciting laboratory research in gene therapy project using human bone marrow cells and animal models. *Must be a United States citizen or permanent resident.* Salary commensurate with experience. Send résumé to: **Dr. Arthur Bank, Columbia University College of Physicians and Surgeons, HHSC 1602, 701 West 168th Street, New York, NY 10032.** *Columbia is an Equal Opportunity Employer.*

ALCOHOL-DRUG, CULTURAL PSYCHIATRY, AND GERIATRIC PSYCHIATRY FELLOWSHIPS

The Department of Psychiatry and Behavioral Sciences at the University of Oklahoma Health Sciences Center is offering 1- and 2-year fellowships in alcohol-drug, cultural, and geriatric psychiatry for PGY-4 and -5 psychiatric physicians. Send correspondence, including résumé and three letters of reference, to: **Joseph Westermeyer, M.D., Ph.D., Chair, Department of Psychiatry and Behavioral Sciences, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190-3048.** *The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL FELLOW

Position open for scientist with background in biochemistry to join an active group studying the mechanisms of atherosclerosis at the molecular and structural level. Areas of vascular biology to be studied include the role of growth factors, cytokines, eicosanoids, G-proteins, and lipoproteins in the disease process. Position offers excellent opportunity for collaboration and advancement to a faculty position. Fellows will be appointed for a 2-year term beginning 1 July 1991; stipends will be funded by our on-going NIH training program in Cardiovascular Biology. Requirements are a Ph.D. or M.D. and U.S. citizenship or permanent residency. Please send curriculum vitae and names and addresses of three references to: **Dr. David P. Hajjar, Professor of Biochemistry and Pathology, Director, NIH Training Program, Cornell University Medical College, 1300 York Avenue, New York, NY 10021.** *Equal Opportunity/Affirmative Action Employer.*

Address or contact the following person if there are any questions:

**Dr. David P. Hajjar
Department of Pathology
Cornell Medical School
1300 York Avenue
New York, NY 10021
Telephone: 212-746-6470**

POSTDOCTORAL RESEARCH POSITION

Receptor biochemistry of brain in prion diseases. Salary supported by NIH training grant. *Requires U.S. citizenship or permanent resident visa. The University of California is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.* Send curriculum vitae and three letters of recommendation to: **Stephen J. DeArmond, Neuropathology, University of California, San Francisco, CA 94143-0506.**

POSITIONS OPEN



**Agricultural Research Service
United States Department of Agriculture**

POSTDOCTORAL RESEARCH ASSOCIATE. Immediately available with the Protozoan Diseases Laboratory, Beltsville, Maryland, to investigate the role of the recombinant avian lymphokines in avian immune system and in poultry diseases. Candidate must have a Ph.D. in biochemistry, immunology, or molecular biology. Salary is commensurate with experience (\$31,116 to \$40,449 per annum). Send applications (SF-171) to: **Dr. H. Lillehoj, United States Department of Agriculture, Agricultural Research Service, Protozoan Diseases Laboratory, Building 1040, Room 100A, BARC-East, Beltsville, MD 20705-2350** or telephone: 301-344-1771. Applications should be marked 1E015 and received by 1 July 1991. *An Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE. Position is immediately available to investigate novel regulation of human fallopian tube functions by growth factors and gonadotropins. Experience in measurements of ciliary motility, smooth muscle contractions, cell division and secretory functions, cell dispersion and cell culture techniques is desirable. If interested, contact: **Dr. Ch. V. Rao, Department of Obstetrics/Gynecology, 438 MDR Building, University of Louisville, Louisville, KY 40292.** FAX: 502-588-0881.

NIH HEART, LUNG AND BLOOD INSTITUTE

POSTDOCTORAL RESEARCH POSITION. Immediately available for M.D. or Ph.D. with training in molecular genetics or relevant experience. Excellent opportunity to pursue molecular biology and gene mapping of hypertrophic cardiomyopathy. Must be within 3 years of having completed doctoral training. Send curriculum vitae and name of three references to: **Dr. Neal Epstein, National Heart, Lung, and Blood Institute, Building 10, Room 7C103, 9000 Rockville Pike, Bethesda, MD 20892.**

NIH is an Equal Opportunity Employer.

ASSOCIATE-POSTDOCTORAL POSITION

Applications are invited for a postdoctoral position as an associate to work in the laboratory of Dr. James M. Wilson at the University of Michigan Medical Center, whose current research involves studies of liver gene replacement therapies. Qualified candidates should possess either an M.D. or Ph.D. with research experience in cell/molecular biology. Please forward your curriculum vitae and three letters of recommendation to: **Jim Alford, Jr., Manager of Administrative Services, 1150 West Medical Center Drive, 4544 MSRB II, Ann Arbor, MI 48109-0650.** *An Equal Opportunity Employer.*

MOLECULAR GENETICS

A postdoctoral fellowship position is available immediately to study the molecular genetics of pediatric brain tumors. Initial research will focus on loss of heterozygosity on chromosomes 17p and 22q and PCR-based sequencing of p53. Experience in molecular biology is required. Excellent working environment in new laboratory space at The Children's Hospital of Philadelphia, on The University of Pennsylvania campus. Send letter, curriculum vitae, and names of three references to: **Dr. Jaclyn Biegel or Dr. Beverly Emanuel, Division of Human Genetics and Molecular Biology, The Children's Hospital of Philadelphia, 34th Street and Civic Center Boulevard, Philadelphia, PA 19104** or FAX: 215-590-3850.

POSTDOCTORAL/RESEARCH ASSOCIATE MOLECULAR BASIS OF PROSTATE CANCER

Positions available to study the molecular basis of prostate cancer development and metastasis in humans. Current approaches involve the use of a novel transfection/expression system to transfer and identify new human tumor-inducing genes and to develop monoclonal antibodies specific for tumor-associated antigens. Expertise in current molecular biological techniques, such as cDNA cloning, library screening and PCR required. To apply, send curriculum vitae, statement of research goals and three letters of reference to: **Dr. P. B. Fisher, Departments of Pathology and Urology, Columbia University, College of Physicians and Surgeons, 650 West 168th Street, New York, NY 10032.** FAX: 212-305-5498. *Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

To participate in ongoing program analyzing the neural regulation of circadian rhythms and the effects of aging on the circadian timing system. Candidate must have a Ph.D. or the equivalent and experience in either electrophysiology of single units in hypothalamic slices or immunocytochemistry of nervous tissue including electron microscopy. Experience in circadian biology is desirable. Send curriculum vitae and names of three references to: **Dr. Robert Y. Moore, Center for Neuroscience, University of Pittsburgh, BST W1657, Pittsburgh, PA 15261.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL/RESEARCH ASSOCIATE

Position available on the biological function and biochemistry of the Alzheimer Amyloid Precursor Protein (APP). Qualifications include a Ph.D. or M.D. with a strong background in cell biology and/or protein biochemistry. Experience with eukaryotic in vitro expression systems and nucleic acid sequencing desirable. The candidate will be part of an effort to study the mechanism of amyloid accumulation in the CNS. Our team is part of the Alzheimer disease research center of Mount Sinai Medical School which provides an excellent environment for basic research in this field. Salary range: \$25,000 to \$30,000. Please send résumé and names of referees to:

**Dr. Nikos K. Robakis
Mount Sinai School of Medicine
Department of Psychiatry and
Fishberg Research Center for Neurobiology
Box 1229
One Gustave Levy Place
New York, NY 10029**

SENIOR RESEARCH ASSOCIATE. In biology to work at a university located in northeastern Ohio. The duties include the identification and collection of diverse genetic material from an array of plant species, with a concentration on pines, and identifying levels of diversity using biochemical and molecular markers for a known set of genes in several populations; population and quantitative genetic interpretation of data, combined with statistical analysis for subsequent publication in scientific journals; traveling to collect needle samples and to conduct field studies on demographic structure, plant breeding systems and estimation of site (ecological) qualities. Ph.D. in botany or genetics required. No experience required in above duties but applicants will qualify with 3 years postdoctoral experience in molecular and population genetics; 37.5 hours per week, 8:30 a.m. to 5:00 p.m., Monday through Friday; \$32,500 per annum. *Must have proof of legal authority to work permanently in the United States.* Send résumé, list of at least six refereed publications, transcripts and/or two letters from academic advisers in duplicate (no calls) to: **J. Davies, JO #1255669/Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

Affirmative Action/Equal Opportunity Employer.

ASSOCIATE NEUROSCIENTIST. Neurophysiology and pharmacology of drug abuse research program. Participate in research and laboratory management. Teach and tutor graduate and postdoctoral students. Qualifications: M.D. and/or Ph.D.; minimum of 7 years of research in mammalian cellular electrophysiology of in vivo and in vitro nervous system (intra- and extracellular recording, voltage-clamp and patch-clamp techniques); primary authorship of at least ten publications in peer-reviewed journals; and graduate level teaching more than 5 years. Send curriculum vitae and three reference letters to: **Rich Sessions, Administrative Office, Vollum Institute, L474, Oregon Health Sciences University (OHSU), Portland, OR 97201-3098.** *OHSU is an Equal Opportunity/Affirmative Action Employer.*

TRANSPLANTATION IMMUNOBIOLOGY

The Transplant and Immunogenetics Laboratory at Oregon Health Sciences University is recruiting a recent graduate of a Ph.D. program in immunology, who has had at least one postdoctoral position, to conduct research in human immunobiology as it relates to organ transplantation. A recruitment package of salary, space, and start-up funds is available. The individual should be self-supporting within 3 years. Contact: **D. J. Norman, M.D., Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201.**



**American Society for Biochemistry
and Molecular Biology**

1991 Fall Symposium

**Biological Significance of Lipid
Modification of Proteins**

**October 11-14, 1991
Keystone, Colorado**

Organizers: Jeffrey Gordon, Washington University
Paul Englund, Johns Hopkins University
John Glomset, University of Washington

Speakers will be chosen from abstracts.
Abstract Deadline: June 3, 1991

Registration and abstract information is available from:

ASBMB Symposium Office
Room 3206
9650 Rockville Pike
Bethesda, MD 20814-3998
Tel: (301) 530-7010

**CALL FOR PAPERS
GENDER IN ACADEME: WHO CARES?
2nd BIENNIAL CONFERENCE**

**OCTOBER 31–NOVEMBER 2, 1991
HOSTED BY UNIVERSITY
OF SOUTH FLORIDA
TAMPA, FLORIDA**

The conference committee seeks papers that will provide a lively forum on gender in academe to facilitate the exchange of theory and research.

Nationally recognized scholars, from the disciplines of sciences and applied professions, humanities, and social sciences will address the conference.

We invite scholarly research on the role of gender in higher education—its significance in historical and contemporary contexts and for the future, including scholarship that deals with:

- Women as teachers, scholars, researchers, administrators, writers, and students.
- Gender and the curriculum—what we learn, what we teach; how we write and how we teach writing; overt and covert exclusion, bias, stereotyping; curricular revision and the effect of gender on methodology.*
- Intersection of gender, race, class, ethnicity, and disability in education.
- Education—catalyst for change or protector of the status quo?

You are encouraged to submit a one-page, double-spaced abstract of your work that addresses some aspect of the conference theme. Please indicate the format desired, e.g. individual paper, panel, symposium, workshop, etc.

*Planning is underway to publish selected conference papers on the specific topic of Gender and the Curriculum. For publication consideration, please submit on this topic as described above.

SUBMISSIONS SHOULD BE POSTMARKED NO LATER THAN APRIL 15, 1991.

For abstract submission or further conference or information, contact:

Lagretta Lenker
University of South Florida
4202 E. Fowler Avenue
LLL 012
Tampa, FL 33620 (813) 974-2403

The University is an Affirmative Action/Equal Opportunity Institution.

Bristol-Myers Squibb Pharmaceutical Research Institute

Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand our extensive research efforts in the areas of cardiovascular, infectious and metabolic diseases. This expansion has created several exceptional opportunities for Research Scientists at our Princeton, NJ and Wallingford, CT facilities.

PHARMACOLOGY (Princeton, New Jersey)

Positions are available in the following areas:

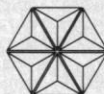
- Experiment with anesthetized and conscious animal preparations, especially canine models of heart failure or hypertension, and perform surgery and statistical analyses. Reply to **Dept. 210A.**
- Prepare perfusion solutions, microelectrodes and other apparatus for electrophysiology experimentation. You will also handle/provide care and dose small animals, collect and prepare cardiac tissues for in vitro study. Reply to **Dept. 210B.**
- Evaluate antithrombotic drugs in vivo and ex vivo. Other responsibilities include surgery, platelet function and blood coagulation testing as well as conducting experiments in animal models of thrombosis. Reply to **Dept. 210C.**
- Conduct experiments on the effect of novel agents on the atherosclerosis in vivo. Responsibilities include computer-based image analysis, vascular surgery, histology, electron microscopy and animal care. Reply to **Dept. 210D.**

Candidates for these positions should possess a BS or MS in a relevant scientific discipline along with several years research experience.

MICROBIAL MOLECULAR BIOLOGY Natural Products Program (Wallingford, Connecticut)

- Ph.D. in Biochemistry or Microbiology and a minimum of 5 years experience in natural products research required. Experience in microbial assays and both thin layer and HPLC chromatography is essential. Experience in microbial fermentations would be an asset. Reply to **Dept. 210E.**
- B.S. or M.S. in Biochemistry or Microbiology with 1-2 years of experience in natural products research required. A background in chromatography, both TLC and HPLC is desirable, as is experience with microbial fermentations. Reply to **Dept. 210F.**

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



Bristol-Myers Squibb Company

POSITIONS OPEN

CARBOHYDRATE BIOCHEMIST. RESEARCH SCIENTIST for small start-up company in California developing novel oligosaccharide sequencing technology. Ph.D. or equivalent experience, knowledge of glycoconjugate structure and experience with conventional sequencing technology required. Competitive industrial salary and fringe benefits offered. Job requires staffing and laboratory supervisory skills. Résumés to: **Glyko, Inc., 81 Digital Drive, Novato, CA 94949.**

ANALYTICAL ULTRACENTRIFUGATION

Experienced professional to participate in development of instrument, data analysis software, and applications methodologies. Must be able to communicate well with engineering and marketing professionals. Excellent presentation skills required. Will travel and make presentations to scientific assemblies. Ph.D. in physical chemistry or related field with related research experience preferred. Send résumé with salary history to: **Beckman Instruments, Professional Staffing, 1050 Page Mill Road, Palo Alto, CA 94304. Equal Opportunity Employer.**

PHYSICIAN. The National Heart, Lung, and Blood Institute is recruiting for a physician who is Board-certified in cardiology, and is an expert in carrying out studies to determine forearm vascular blood flow and resistance. The candidate should have broad experience in performing forearm plethysmography, in infusing drugs intra-arterially, and in performing treadmill and bicycle exercise testing. The candidate must have expertise in the mechanisms responsible for the control of vascular tone, including the role of the endothelium. Finally, the candidate must be expert in performing and interpreting echocardiographic studies. Salary range: \$45,000 to \$60,000. Contact: **Dr. Stephen Epstein, Cardiology Branch, Building 10, Room 7B15, 9000 Rockville Pike, National Institutes of Health, Bethesda, MD 20892. NIH is an Equal Opportunity Employer.**

PHYSICIST. To work in Newport News, Virginia; 40 hours per week, 8 a.m. to 5 p.m.; \$42,000 to \$44,000 per year. The incumbent will lead the effort in the design, instrumentation, installation, and operation of highly segmented large drift chambers to be used for charged particle tracking in the CEBAF Large Acceptance Spectrometer (CLAS). Develop read-out electronics, electrical systems, cooling systems, gas distribution systems, experimental techniques, and instrumentation for the on-line monitoring of the drift chamber system and for the off-line software analysis of the drift chamber hardware. Develop techniques for structural stability computations and measurements. Requirements: Doctorate plus 4 years of work experience in experimental nuclear physics. Previous experience installing, commissioning, and running highly segmented large-acceptance drift chambers for charged particle tracking at a particle accelerator. Instrumentation expertise in layout of electronics, cooling systems, gas distribution, and monitoring systems for drift chambers. Experience in development of algorithms and use of Monte Carlo routines for computation of resolution, efficiency, track matching, and momentum reconstruction. Experience in development of software for on-line detector monitoring off-line analysis of chamber hardware performance and large-scale simulation of physics processes. To apply, mail or hand-carry résumé with copy of ad attached by 30 April 1991 to: **M. J. Hotchkiss, Virginia Employment Commission, 5145 East Virginia Beach Boulevard, Norfolk, VA 23502. J.O. #VA0011196.**

ASSISTANT RESEARCH IMMUNOLOGIST. Program in Transplant Immunology is offering a position for a molecular/cellular immunologist with expertise in human immunogenetics and transplantation immunology. Candidate must have a Ph.D. degree with at least 3 years of postdoctoral employment and/or training in human immunogenetics and HLA system involving: serology or cellular immunology, T cell cloning, molecular genetics as related to histocompatibility, immunogenetics. Responsibilities will include: Studies on antisense gene regulation, human tolerance induction, and immune monitoring of transplant recipients. Salary range: \$41,600 to \$52,400 depending on experience. Send curriculum vitae and reference to: **Marvin R. Garovoy, M.D., University of California, San Francisco, 520 Health Sciences East, Third and Parnassus Avenues, San Francisco, CA 94143-0508.**

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POSITIONS OPEN

NEUROBIOLOGY/NEUROPATHOLOGY CLINICAL INVESTIGATOR

Position in Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota. Seeking Board-certified neuropathologist with primary commitment to basic neurobiological research and secondary commitments to shared teaching and service responsibilities with other full-time neuropathologists. Candidate should have an established track record of successful investigation in neurobiological/neuropathological research and experience in competing for grant support at national/international levels. State-of-the-art facilities, space, equipment, start-up support and the extensive resources of the Mayo Clinic research community will be available. Qualified candidates should submit detailed curriculum vitae and bibliography to: **B. W. Scheithauer, M.D., Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN 55905. Mayo Foundation is an Affirmative Action/Equal Opportunity Employer.**

PRINCIPAL RESEARCH SCIENTIST for Columbus area technology development firm to conduct major research projects related to the development of innovative enzyme immunoassay systems for the measurement of a variety of biomolecules including therapeutic drugs, hormones, infectious agents, cancer markers, and serum proteins; conduct research on immunochemical techniques including antibody production, protein-hapten and enzyme-antibody conjugations, and proteins purifications by the fast protein liquid chromatography system; write effective research proposals and project reports; train and direct the work of other project staff. Four years of experience required in the job described. In addition, must have Ph.D. in biochemistry and have taken, as part of graduate academic record, at least one course in each of organic chemistry and enzyme biochemistry. Also, must have at least two publications in peer-reviewed biochemistry journals. Forty hours per week, 8:00 a.m. to 5:00 p.m.; \$3900 per month. *Must have proof of legal authority to work permanently in the United States.* Qualified applicants send résumé in duplicate (no calls) to: **S. Holton, JO#1260258, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

RESEARCH SCIENTIST IN MOLECULAR BIOLOGY

Virginia-Maryland College of Veterinary Medicine, University of Maryland College Park, invites applications for a faculty research scientist position in fish molecular virology. Initial appointment will be in the Maryland Agricultural Experiment Station for 3 years, with likelihood of becoming tenure track. Required: Ph.D. and postdoctoral experience. Submit résumé and have three reference letters sent to: **Dr. Edward Stephenson, Search Committee Chair, Regional College of Veterinary Medicine, University of Maryland, College Park, MD 20742. Application deadline is 15 May 1991.**

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

RESEARCH SCIENTIST. To design small molecule ligands for enzymes and/or receptors implicated in bone diseases. Plan, supervise, and carry out the enantiomerically selective synthesis of the targets identified and develop new synthetic methodology for the manipulation of chiral pool starting materials. Ph.D. in organic chemistry plus 2 years as a research scientist required. Previous experience must include 2 years of hands-on experience designing and synthesis of novel enzyme ligands as potential therapeutic agents, and developing novel iodocyclization reactions for the synthesis of biologically active compounds. Research experience should include 2 years hands-on experience in the design and synthesis of proteinase inhibitors implicated in bone diseases and arthritis. Forty hours per week, Monday to Friday, 8:00 to 4:30 p.m.; \$52,000 per year. Please respond to: **Position #INS-MCD3, Rhone-Poulenc Rorer, 640 Allendale Road, King of Prussia, PA 19406. Attention: Human Resources Department. Equal Opportunity Employer, F/M/H/V.**

SCIENCE

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.

THE EMF- CANCER QUESTION

A Science Reprint Booklet

Due to the popularity of *Science's* recent three-part series by Robert Pool examining the debate over the possible biological effects of electromagnetic fields, we put the articles together in one convenient and comprehensive reprint booklet. The first article looks at the epidemiological evidence for a link between electromagnetic fields and cancer. The second article deals with cell and animal studies, and the third examines policy questions and the politics behind the research.

To order copies of this booklet, complete the coupon below and send your check, payable to AAAS. All orders must be prepaid.

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DIRECTOR OF LAMPF

Los Alamos National Laboratory

Los Alamos National Laboratory, operated by the University of California, is seeking an exceptional individual to direct the Los Alamos Meson Physics Facility (LAMPF), to lead the Medium Energy Physics Division, and to be responsible for the Nuclear Physics Program at the Laboratory.

LAMPF is the major national operating nuclear physics facility, with a large user community. It has strong programs in nucleon, pion and electroweak physics, and provides beams to the Los Alamos Neutron Scattering Center (LANSCE) and the Weapons Neutron Research facility.

Candidates must have demonstrated scientific leadership ability, administrative capability, and technical experience in the nuclear physics arena. A Ph.D. in physics or equivalent is required. Applications from minority and female candidates are especially encouraged. To obtain more information or to apply, please contact Molly Birely, MS P282, Personnel Services Division 10082-F, Los Alamos National Laboratory, Los Alamos, NM 87545, FAX: (505) 665-2116.

Affirmative Action/Equal Opportunity Employer

Los Alamos

NATIONAL LABORATORY

M B A R I



Ocean Science Research Positions

The Monterey Bay Aquarium Research Institute (MBARI) is seeking scientists interested in carrying out innovative research in the deep ocean. We plan three new positions, two of which we expect to fill within a year, and the third at a future time. Successful applicants will become leaders in establishing vigorous research programs which may be allied with the unique opportunity to conduct experiments on the ocean floor, making use of advanced ROV technology. There will be opportunity to contribute to the definition and development of the next generation of sensors, samplers, vehicles and systems. The three positions are in the following research fields:

Ocean Biology: Experimental studies and/or theoretical analysis of benthic populations and communities

Ocean Microbiology: Study of microbial processes in the deep ocean and sediments

Ocean Geochemistry: Organic or inorganic geochemistry of deep ocean biogeochemical cycles.

Positions may be filled at the Assistant, Associate, or Senior Scientist level based upon experience. Desired qualifications include: Ph.D. in an appropriate scientific field and demonstrated commitment to a research program in one of the above subject areas. For appointment at the Associate or Senior level the applicant must have a strong record of independent research. Qualified women scientists and minority groups are encouraged to apply.

MBARI encourages strong interactions between scientific and engineering research groups for the development of new ways of carrying out advanced ocean research, and funds are available for project initiation. The successful applicant will be encouraged to form collaborative liaisons with other Monterey Bay Area Research Institutions, including the Monterey Bay Aquarium, Hopkins Marine Station of Stanford University, Moss Landing Marine Laboratories, Naval Postgraduate School, and the University of California at Santa Cruz.

Send Curriculum Vitae, a summary of research interests, and the names of four references to:

Search Committee Chair, Monterey Bay Aquarium Research Institute, 160 Central Avenue, Pacific Grove, CA 93950

Benefit From Our Scientific Advances

The Lindsley F. Kimball Research Institute of the New York Blood Center is an internationally recognized research facility, dedicated to both basic and applied research in the field of hematology and transfusion medicine. The following opportunities are immediately available for:

Post-Doctoral Position Lab of Virology and Parasitology

This post-doctoral position is in Molecular and Immunoparasitology. Will involve participation in a well-funded project that centers on the identification and characterization of putative host protective recombinant antigens of the early stages of *Onchocerca volvulus*, and the evaluation of these antigens as candidates for vaccine development. Applicants should have a Ph.D., M.D. or equivalent with experience in Molecular Biology and/or Immunology. Salary Mid \$20s plus a generous NYC housing allowance offered. **For this position send CV, with names and telephone number of three references, to: Dr. Sara Lustigman, Associate Investigator, Laboratory of Virology and Parasitology.**

Senior Research Technician/ Research Assistant

Study the mechanism of inactivation of viruses contained in platelet concentrates and other blood cell components. At least three years of experience with molecular biology/virology techniques, including the isolation and analysis of RNA is required. Familiarity with viral nucleic acids, infectivity assays and PCR is desirable, but not essential. **For this position send CV to: Dr. Henrietta Nunno, Dept of Research & Development.**

Send all resumes to:
**The New York Blood Center
310 East 67th Street
New York, New York 10021**



Lindsley F. Kimball Research Institute

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CAREER OPPORTUNITIES IN ANTISENSE PHARMACEUTICALS

Antisense Oligonucleotides as a new therapeutic modality

Hybridon, Inc., located in Worcester, MA, is a dynamic, young pharmaceutical company led by some of the scientific pioneers of antisense technology. Hybridon is developing antisense oligonucleotide drugs against a variety of human diseases for which there is no effective treatment, such as AIDS.

The company has new career opportunities currently available for highly motivated scientists at BS/MS/PhD levels in several areas of "oligonucleotide drug" discovery and development.

The successful candidates will possess a strong synthetic organic chemistry background and a broad knowledge of modern spectral methods and chromatographic techniques. Exposure to the design of new synthetic analogues of nucleosides/oligonucleotides, experience in oligonucleotide synthesis scale-up (solid phase or solution phase) and/or oligonucleotide purification procedures would be highly desirable. A BS/MS in Chemistry with at least one year of laboratory experience is required.

Hybridon offers competitive compensation, comprehensive benefits, a relocation plan and excellent living conditions in central MA.

For confidential consideration, please send your resume, current salary and the names of three references to Dr. Donald E. Kuhl:

XXXX Hybridon

373 Plantation Street, Worcester, MA 01605

HEI

The Health Effects Institute Eighth Annual Conference

April 21-24, 1991
Colorado Springs, Colorado

The purpose of this meeting is to foster communication among scientists, government officials, and motor vehicle industry representatives. The program includes lectures by internationally recognized speakers, poster sessions with HEI investigators, and a workshop on experimental exposure to reactive gases. Individual sessions will address: **Human Exposure Assessment; Assessing Human Health Risk from Animal Chronic Bioassay Data; and Disease Causation: Integrating Human and Laboratory Animal Data for Benzene and for 1,3-Butadiene.**

The Health Effects Institute is a non-profit corporation that supports studies to evaluate health effects of automotive emissions. It is funded jointly by the U.S. Environmental Protection Agency (EPA) and the automotive industry. Current research is investigating the health effects of a wide variety of pollutants, including methanol, nitrogen oxides, ozone, and diesel emissions.

Registration for the meeting is \$125. Participation is limited and by pre-registration only. For further information contact:

The Health Effects Institute
141 Portland Street, Suite 2300
Cambridge, MA 02139
(617) 621-0266

POSITIONS OPEN

RESEARCH SCIENTIST. To perform analytical biochemical research related to pharmaceutical compounds. Develop methods of analytical technology to support pharmaceutical analysis in biological matrices using HPLC, GC/MS, UV/VIS, ECD, Biosensors, infrared, and nuclear magnetic techniques. Ph.D. in analytical chemistry plus 2 years of experience performing analytical chemical research required. Previous experience must include 2 years of hands-on experience performing chemical research utilizing reverse-phase and ion-exchange HPLC with electrochemical UV/VIS and fluorescence detections, ECD, and IR including development and modification of ECD construction of biosensors and synthesis of HPLC column packing materials. Forty hours per week, Monday to Friday, 8:15 a.m. to 4:45 p.m.; \$48,000 per year. Please respond to: **Position #INS-DM2, Rhone-Poulenc Rorer Central Research, 640 Allendale Road, King of Prussia, PA 19406. Attention: Human Resources Department. Equal Opportunity Employer, F/M/H/V.**

RESEARCH SCIENTIST. To design and develop experimental models to study cellular interactions in immune responses, particularly in inflammatory reactions. To direct research aimed at development of polyclonal and monoclonal antibodies to cell surface receptors involved in leukocyte activation and adhesive interactions and purification of the receptors and exploration of their structure and function, and identification of potential inhibitors of leukocyte activation, adhesion, and migration in inflammatory diseases. Ph.D. in cellular immunology plus 1 year's experience as research scientist/immunology required. Previous experience must include 1 year's hands-on experience cloning leukocyte adhesion protein genes, and performing molecular analysis of leukocyte adhesion deficiencies, and research in structure and function of phosphatidylinositol-anchored proteins involved in immune responses. Forty hours per week, Monday to Friday, 8:30 a.m. to 4:30 p.m.; \$52,000.00 per year. Please respond to: **Position #INS-ID1, Rhone-Poulenc Rorer Central Research, 640 Allendale Road, King of Prussia, PA 19406. Equal Opportunity Employer, M/F/H/V.**

ASSISTANT RESEARCH SCIENTIST. Duties include: independent design and performance of experiments in microvascular physiology; the responsibility for developing a new, unique approach to study water and solute transport in isolated coronary venules 20 to 50 μ m in diameter; the use of surgical skills to dissect, isolate, and cannulate the vessels; and the independent capability to plan experiments, conduct the studies, and write reports on the results. Salary: \$2083.33 per month, 40 hours per week. Requires M.D., Ph.D., or equivalent in medical studies, and 2 years of related experience in research in microvascular physiology. Apply at: **The Texas Employment Commission, Bryan, Texas, or send resume to: The Texas Employment Commission, TEC Building, Austin, TX 78778, Job Order #5757260. Ad paid by an Equal Employment Opportunity Employer.**

ANNOUNCEMENTS

RESEARCH GRANTS AND FELLOWSHIPS

The American Epilepsy Society and the Epilepsy Foundation of America offer research grants and fellowships. For applications and guidelines write:

Epilepsy Foundation of America
Research Administration
4351 Garden City Drive
Landover, MD 20785
Telephone: 301-459-3700

RESEARCH INQUIRIES INVITED

The Smokeless Tobacco Research Council, Inc., invites inquiries regarding grant applications.

The council sponsors independent research into questions of smokeless tobacco and health. Research support is through a program of grants-in-aid.

Grant applications are evaluated by the Scientific Advisory Board to the council and will be judged solely on the basis of scientific merit and relevance.

Deadlines for submission of grant applications are 31 December for 1 July funding and 30 June for 1 January funding. Address inquiries or requests for applications to: **The Smokeless Tobacco Research Council, Inc., 420 Lexington Avenue, New York, NY 10170. Telephone: 212-697-3485.**

COURSES AND TRAINING

PREDOCTORAL INTERDISCIPLINARY PROGRAM CELL STRUCTURE AND FUNCTION IN HEALTH AND DISEASE

The University of Florida has initiated a new program providing well-qualified graduate students with a broad spectrum of research opportunities in cell structure and function tailored to the specific needs of each student. Faculty interests are diverse and include developmental and regulatory biology, intracellular targeting, cytoskeleton, signal transduction, immunobiology, cancer biology, and the mechanism of viral infection. The student will receive a Ph.D. degree jointly through a basic sciences department and the Interdisciplinary Program. Competitive stipends are offered by the program. For further information contact: **Dr. Carl Feldherr, Department of Anatomy and Cell Biology, College of Medicine, University of Florida, Gainesville, FL 32610-0235.**

FUNDAMENTAL NEUROBIOLOGICAL APPROACHES TO DISEASE: BRAIN MECHANISMS IN NEUROPSYCHOLOGY 19 TO 24 MAY 1991

The Neurosciences Institute will sponsor an intensive, week-long course emphasizing the disease process as an object for biological research. The purpose is to introduce scientists to the basic physiology and pathology of selected human syndromes affecting behavior and to the opportunities they provide for solving fundamental biological problems.

The course program will review both clinical phenomena and pertinent areas of basic neuroscience in a format that includes lectures, clinical case presentations, and small group discussions. Instructors will include Ursula Bellugi, Hans-Joachim Freund, Joachim Fuster, Patricia Goldman-Rakic, Charles Marsden, Marek Marsel Mesulam, Mortimer Mishkin, Fred Plum, Michael Posner, Marcus Raichle, Vilayanur S. Ramachandran, Larry Squire, Thomas Thach, Larry Weiskrantz, Robert Wurtz, and Semir Zeki.

Applications are invited from scientists with advanced training and experience in neuroscience or related biological sciences. Participants' expenses will be reimbursed by the institute.

For application forms or further information, please write to: **Dr. W. Einar Gall, Research Director, The Neurosciences Institute, 1230 York Avenue, New York, NY 10021 or telephone: 212-570-8975.**

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain the Doctor of Optometry (O.D.) 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.**

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SCIENCE, VOL. 251

NATIONAL INSTITUTES OF HEALTH

CELLULAR AND MOLECULAR BIOLOGIST IN VASCULAR-IMMUNE SYSTEMS AND HIV-1 GENE REGULATION

The Laboratory of Tumor Cell Biology of the Division of Cancer Etiology, National Cancer Institute is accepting applications for a permanent position for a medical doctor with research experience. The position has a salary range of \$54,694 - \$67,996.

The successful candidate will be expected to:

1. Conduct original research in the area of AIDS-associated malignancies (Kaposi's Sarcoma and B cell lymphoma) and HIV-1 gene regulation with emphasis on the investigation of the mechanism of action of HIV-1 regulatory gene products and cytokines on vascular cells and immune cells, using techniques of cellular and molecular biology.
2. Serve as Project Officer for extramural contract(s) to test the effectiveness of the use of antisense compounds in blocking the action of HIV-1 regulatory genes and cytokine genes.
3. Provide expert consultation to the Program in matters involving the study of AIDS-associated Kaposi's sarcoma, B cell lymphoma and HIV-1 regulatory genes.

Candidates with the following qualifications will be given preference:

1. M.D. (M.D. and Ph.D. are preferred) with background in immunology or other subject where training was focused on AIDS and AIDS-related malignancies.
2. Postdoctoral research experience in HIV-1 gene regulation and the interaction of cytokines with vascular and immune systems.
3. Strong interest in developing a research program which utilizes techniques of cellular and molecular biology to impact the areas of the role of retroviruses, particularly HIV-1, in the pathogenesis of tumors.
4. Broad knowledge of HIV-1 gene function and regulation, cytokines and their regulation, AIDS and Kaposi's sarcoma.
5. Ability to communicate effectively both orally and in writing.
6. Relevant publications in related scientific journals.

Applicant must be found to be eligible on a Civil Service Register. ***If interested, please send a curriculum vitae by April 15, 1991 to:***

**Ms. Patricia Stephenson, AO, BCP
National Institutes of Health
Building 37, Room 1A07
9000 Rockville Pike
Bethesda, MD 20892**



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What began as a local brewery has grown into an international company. If you'd like to share the excitement of working for a Fortune 50 company with a century old tradition of quality, we have an opening for you.

Yeast Physiologist

Responsibilities for this position include initiating and executing programs to optimize yeast performance in beer fermentations. These programs will encompass determining the effect of raw materials and process variables on beer fermentations and establishing the relationship between karotype and yeast performance.

The ideal candidate must have a Ph.D. in microbiology or biochemistry with a minimum of 2 years' postdoctoral or industrial experience. Previous research involving yeast physiology and genetics is required.

If you're a goal-oriented, team player able to share your knowledge with various departments and disciplines, we're prepared to reward your efforts with an attractive salary and benefits. For consideration, please send your resume with salary history to:

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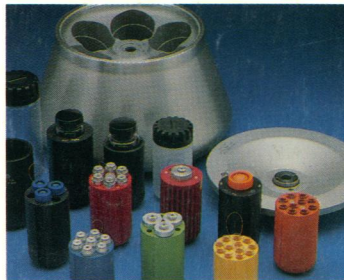
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