Personnel Placement

SCIEnCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing, no abbreviations. Any deadlines in ad must be at least 2 weeks after date of issue in which ad appears. Also, personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference. SCIEnCE reserves the right, in its discretion, to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISING DEADLINES:
Thursday, 10 a.m., 2 weeks prior to issue date (mail on issue date). For deadlines for display advertising, please contact Scherago Associates.

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

LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth)
$40.00 per line, $400 minimum, per week (minimum charge covers one inch on a single column; one inch equals 10 lines of 52 characters and spaces per line). No charge for use of box number. No agency commission for ads less than 4 inches. No cash discount. Prepayment required for all foreign ads. Purchase orders are accepted from other advertising.

To ESTIMATE ad cost:
Structure ad copy on a separate page, on lines of 52 characters and spaces. Include any desired heading. Each line of heading, and/or extra line spaces, and all partial lines (including centered reply information) are counted as full lines. Ad titles located within the text are printed in boldface caps and are only 32 characters per line. In ESTIMATING the cost, multiply total lines x $40.00 = approximate cost of ad (This is an approximate cost only. Allow for variation between estimated lines and actual upset lines and the resulting final total. Purchase orders must allow for some degree of flexibility and/or adjustment.)

CANCELLATION POLICY:
Note: Ad cancellations made after Thursday, two weeks prior to issue date incur a 10% production charge. Final deadline for cancellations is 12 p.m. Tuesday, one week prior to issue date. Cancellations must be in writing.

Send copy for all Positions Wanted ads and Line Classified ads less than 1/6 page in size (39 lines) to:
SCIENCE Classified Advertising
1333 L Street, NW, Room 540
Washington, DC 20005
Telephone: 202-326-6550

Send copy for Fractional Display ads, 1/6 page and larger, and all Marketplace ads to:
Scherago Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-730-1050

Send ad replies should be addressed as follows:
Box (give number)
1333 H Street, NW
Washington, DC 20005

POSITIONS WANTED

Cell Biologist, Ph.D. Postdoctoral experience, publications, free-lance writer. Ultrastructural techniques, freeze fracture, electron microscopy. Areas of interest: neuroanatomy, neurodevelopment, synapses. Seeks position managing laboratory for scientist and/or writing science papers. Box 115, SCIEnCE.

Cytogeneticist, Ph.D. familiar with human and mouse karyotypes, some familiarity with the karyotype of several other species. Extensive experience with cell cultures and biochemical assays. Box 117, SCIEnCE.


Computer Application Specialist (master's degree) seeking position in academia, industry, or DOD. Current interests include AI (expert systems/neural networking), image processing, and DBMS. Previous programming experience with C, Prolog, Pascal, SAS, object-oriented and relational DBS. Several published articles on past research. Box 116, SCIEnCE.

Physical Chemist/Biochemist, Ph.D. Experience in quasielastic light scattering, CD, microcalorimetry, enzymology, transient-state enzyme kinetics and computer programming. Strong background in inorganic chemistry. Four years of postdoctoral experience with publications and excellent references. Seeks research position in industry. Box 114, SCIEnCE.

Plant Biochemist/Molecular Biologist/Analytical Biochemist. Highly experienced, innovative in electrophoresis, analysis of protein, preferably SDS-PAGE or IEF. Several years of experience in many areas of plant biology and molecular biology, as evidenced by publications. Seeking academic job or senior level position (group leader) in industry. Box 118, SCIEnCE.

POSITIONS OPEN

ASSISTANT DIRECTOR, ACADEMIC AFFAIRS, College of Agriculture and Life Sciences; 12-month appointment with academic rank of associate or full professor; minimum of 5 years of teaching, research, and academic advising experience; previous administrative experience desirable; preference will be given to candidates with a background in life sciences. Duties include working with other members of the administrative team, student recruitment, interaction with student organizations, and other assignments appropriate to the academic office of a major college in a land-grant institution. Nominations and applications should be sent to: Search Committee for Assistant Director—AAS, Box 7615, North Carolina State University, Raleigh, NC 27695-7615.

Applications should include a complete curriculum vitae and employment history, a statement not to exceed one page describing the applicant’s administrative philosophy, and the names, addresses, and telephone numbers of three persons who may be contacted by the search committee to evaluate the candidate. Proper documentation of identity and employability will be required before the hiring process can be finalized. Closing date for all applications is 15 September 1989. North Carolina State University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF PHYSIOLOGY

Two tenure-track positions at the rank of assistant professor are available in the Department of Physiology and Biophysics at The University of Tennessee, Memphis. Candidates should have a Ph.D. or M.D. degree and postdoctoral research experience with a background in cellular and/or molecular biology. The ability to establish an independent research program in the areas of cardiovascular, gastrointestinal, developmental, endocrine or epithelial physiology and to engage in teaching activities of the department are expected. Applicants send curriculum vitae, copies of three representative publications and the names of three references to: Dr. Leonard R. Johnson, The Thomas A. Gerwin Professor and Chairman, Department of Physiology and Biophysics, 894 Union Avenue, Memphis, TN 38163. An Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

ASSISTANT PROFESSOR WITH BACKGROUND IN MOLECULAR BIOLOGY

The Department of Biochemistry and an NIH-funded Comprehensive Sickle Cell Center at the University of South Alabama invite applications for a faculty position at assistant professor level. Candidates should have postdoctoral experience. Opportunities exist for collaboration with a large interdisciplinary group of investigators as well as participation in graduate and medical education. Interested persons should send curriculum vitae and three letters of recommendation to: Dr. Joe M. McCord, Chairman, Department of Biochemistry, University of South Alabama, Mobile, AL 36688. The University of South Alabama is an Equal Opportunity Employer.

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The University of Pennsylvania Division of Urology invites applications for a faculty position in urologic oncology and reconstructive surgery. Applicants must have a strong background in basic and clinical research, preferably through the AUA Scholar program. Specific interests in mechanisms of metastasis and regulation of tumor growth are desired. Prior research and clinical experience in factors affecting tumor growth are preferred. Applicants should have a Ph.D. or M.D. and at least 2 years of postdoctoral experience. The Division of Urology is located on the University of Pennsylvania campus in Philadelphia, PA 19104. An Equal Opportunity/Affirmative Action Employer.

The University of Michigan Medical School, Department of Biological Chemistry, is inviting applications for a faculty position at the rank of ASSISTANT PROFESSOR. Candidates should have a Ph.D. in organic chemistry, biochemistry, pharmacology, or a related field and be strongly interested in the fields of drug design and metabolism. A strong publication record is essential. Postdoctoral experience is preferred. Applicants should submit curriculum vitae, a list of publications, a succinct outline of their research plans, and a statement of their research interests to: Dr. Alan J. Wein, M.D., Professor and Chairman, Division of Urology, Hospital of the University of Pennsylvania, 3400 Spruce Street—Suite 3333, Philadelphia, PA 19104. An Equal Opportunity/Affirmative Action Employer.

Assistant Professor—SOUTHEASTERN UNIVERSITY OF MEDICINE AND DENTISTRY

The college of pharmacy at Southeastern University of Health Sciences invites applications for full-time non-tenure-track position in pharmacology. Applicants must have a strong background in physical pharmacy, pharmacology, or pharmaceutical sciences. Previous research experience is essential. The individual selected will be expected to accept responsibility for instruction at both undergraduate and graduate levels, develop new courses, and contribute to independent research on some aspect of pharmacology. Applicants must have a Ph.D. in pharmacology or a closely related field. Salary is commensurate with experience, with a maximum of $54,000. Qualifed applicants are invited to submit their curriculum vitae, three letters of recommendation to: Dr. Joseph Norwood, Dean, Southeastern University of Health Sciences, School of Pharmacy, 1750 N.E. 166 Street, Miami, FL 33141-1094.

Assistant/Associate Professor—BIOLOGY

The Department of Biological Sciences at The Wichita State University is actively recruiting gifted individuals with demonstrated research and teaching skills in cell and molecular biology specialties (e.g., molecular biology, protein structure, cell structure, and cell culture) for four tenure-eligible positions at the assistant/associate professor level. All positions require significant postdoctoral training in one of the specialty areas, a record of productive research, and the ability to interact collegially, and demonstrated capacity to direct a core laboratory in one of the specialties. Appointment at the assistant professor level requires a demonstrated record of funded research activity. Salary competitive with start-up funds available. Deadline for applications is 1 September 1989 or the first of the month until position is filled. Submit curriculum vitae, summary of current and future research, and names of three references to: Chairman Search Committee, Department of Biological Sciences, The Wichita State University, Wichita, KS 67208.

ASSISTANT PROFESSOR—AGRONOMY, Chemistry, and Biochemistry

Applications are invited for positions in the areas of agricultural and biochemical engineering, biochemistry, and agricultural chemistry at the Department of Agronomy and Biochemistry, University of Georgia, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

ASSISTANT PROFESSOR—INHALATION PHARMACOLOGY AND TOXICOLOGY

Applications are invited from outstanding individuals with a Ph.D. degree and at least 2 years of postdoctoral training to join the research laboratory of Dr. C. W. Pletcher, Jr., in the Department of Pharmacology and Toxicology, College of Medicine, University of Alabama, Birmingham, AL 35294. The University of Alabama is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—FISHERIES

Applications are invited from Ph.D. biologists for the position of assistant professor in the Department of Agriculture, University of Georgia, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

ASSISTANT PROFESSOR—BIOCHEMISTRY

Applications are invited from outstanding individuals with a Ph.D. degree for the faculty position of assistant professor in the Department of Chemistry, University of Wisconsin—Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53201. The University of Wisconsin—Milwaukee is an Equal Opportunity/Affirmative Action Institution.
Positions Open

ASSISTANT/ASSOCIATE PROFESSOR, human nutrition/metabolism, tenure-track, fall 1990. Teach undergraduate and graduate courses, direct M.S. and Ph.D. students, develop research program in metabolism and macronutrients. Requires Ph.D. in nutrition or related field, postdoctoral experience, demonstrated research productivity and teaching experience preferred. Deadline: 1 December 1989. Send application letter, curriculum vitae, names of three references to: Dr. Robert D. Reeves, Department of Food and Nutritional Sciences, Forest Hall, Kansas State University, Manhattan, KS 66506-1407. Telephone: 913-532-5508. Equal Employment Opportunity/Affirmative Action Employer.

BIOCHEMIST (Ph.D.) to participate in drug mechanism and pharmacology studies as part of a large collaborative preclinical and clinical research program with Memorial Sloan-Kettering Cancer Center, involving biochemical modulation in cancer therapy. Candidate should have proven expertise with HPLC technology, nucleic acid metabolism, and enzyme analysis. Generous laboratory and computational support will be provided. Excellent salary and fringe benefits. Interested candidates should submit a letter of application, current curriculum vitae, list of publications, and names of three references. Telephone numbers and text three recent references to: Daniel S. Martin, M.D., and Joseph R. Bertino, M.D., 89-15 Woodhaven Boulevard, Woodhaven, NY 11421.

CHAIRPERSON—BOTANY SEARCH EXTENDED

The Department of Botany, University of Maryland at College Park (Main Campus) is seeking nominations and applications of scientists qualified to serve as departmental chairperson. The Department currently consists of 29 faculty and 52 graduate students. A substantial number of faculty hold appointments in Maryland Agricultural Experiment Station and the Cooperative Extension Service. Research programs range from whole-plant to subcellular and molecular areas with emphasis in ecology and systematics, cellular and molecular biology, and plant pathology. The faculty actively collaborates with scientists at the Smithsonian Institution, USDA, and the University of Maryland. Applicants must have a Ph.D. degree and have demonstrated outstanding abilities in research in some field of modern plant biology. Evidence of administrative ability is desirable. Appointment will be made at the professorial level (tenured) with appropriate salary and benefits. For full consideration, submit a letter of application, curriculum vitae, and the names, addresses, and telephone numbers of four references by 1 October 1989 to: Dr. A. L. Steinthauer, Botany Chair Search Committee, Department of Botany, University of Maryland, College Park, MD 20742. Telephone: 301-454-3843. An Equal Opportunity/Affirmative Action Employer.

CHAIRPERSON DEPARTMENT OF BIOCHEMISTRY

Applications and nominations are invited for the position of Professor and Chairperson, Department of Biochemistry, University of Mississippi Medical Center. The successful candidate should be an established investigator and offer leadership in the continued development of outstanding programs for research and education in the biochemical sciences. Applicants should send a resume and three letters of reference by 1 November to: Dr. William Clen, Chairman, Search Committee, of Microbiology, University of Mississippi Medical Center, Jackson, MS 37216-4505. Equal Opportunity Employer, M/F/H/V.

CLINICAL/MOLECULAR MICROBIOLOGIST POSITION, Mayo Clinic in the Bacteriology Laboratory, Department of Laboratory Medicine and Pathology. Incumbent will direct a special test area in the clinical laboratory and be expected to develop applications of molecular biology to clinical diagnostic testing. Applicants must have a doctorate (M.D. or Ph.D.), appropriate postgraduate experience, and interact well with clinicians. Please send curriculum vitae and names of three references to: George G. Klee, M.D.; Ph.D., Chairman, Clinical Microbiology Search Committee, Division of Laboratory Medicine, Mayo Clinic, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.

THE AUSTRALIAN NATIONAL UNIVERSITY RESEARCH SCHOOL OF CHEMISTRY POSTDOCTORAL RESEARCH POSITIONS

Applications are invited for appointment to postdoctoral fellowships and research fellowships in the Research School of Chemistry. Current tenured Faculty and their major research interests are:

Professor A.L.C. Beckwith (Physical Organic Chemistry); Dr M.A. Bennett (Organomo-translation Metal Chemistry); Dr R. Bramley (Photophysics and Time-resolved EPR); Dr L.R. Brown (Nuclear Magnetic Resonance; Structure and Dynamics of (Bio) Macromolecules); Dr M.A. Collins (Chemical Physics, Dynamics); Dr N.E. Dixon (Protein Chemistry, Enzymology and Molecular Genetics); Dr J.D. Evans (Liquid State Chemical Physics); Dr G.A. Heath (Inorganic Electrochemistry); Professor B.G. Hyde, Dr A.C. McLaren (Inorganic Solid State Chemistry); Dr E.R. Krausz (Optical Spectroscopy); Dr J.K. MacLeod (Chemistry of Biologically-active Compounds, Mass Spectrometry); Professor L.N. Mander (Synthetic Organic Chemistry); Dr L. Radom (Theoretical Organic Chemistry); Mr R.W. Rickards (Bioorganic Chemistry); Dr G.B. Robertson (Crystallography); Professor A.M. Sargeson (Coordination and Biomimetic Chemistry); Dr T.R. Welberry (Disordered Materials); Professor J.W. White (Solid State Molecular Science); Dr S.B. Wild (Synthetic Inorganic Chemistry).

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Applications should be submitted in duplicate to the Registrar, The Australian National University, GPO Box 4, Canberra ACT 2601, Australia, quoting reference number RC.27.6.1. They should include a curriculum vitae, list of publications and statement of research interests, the names and addresses of three academic referees, and the probable date on which the position could be taken up. The closing date is 30 September 1989. The University reserves the right not to make an appointment or to appoint by invitation at any time. Further information is available from the Registrar.

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BIOTECHNOLOGY AND IMMUNOLOGY

The University of Louisville School of Medicine is currently searching for a Professor and Chair for its Department of Microbiology and Immunology. Requirements for this position include a doctorate (or an equivalent degree) in microbiology or immunology, or a related area, as well as academic qualifications commensurate with the rank of professor of microbiology and immunology. Scientific leadership, administrative ability, continuous grant support, and excellence in teaching are essential qualities for the person assuming this important leadership position in the University of Louisville School of Medicine.

If interested, please send a letter of application, list of four professional references, summary of research support, and current curriculum vitae, including a description of your professional leadership and research interests to: Russell A. Prough, Ph.D., Chair, Microbiology and Immunology Search Committee, Office of the Dean, School of Medicine, University of Louisville, Louisville, KY 40292.

The deadline for receipt of all materials is 30 September 1989. The University of Louisville is an Affirmative Action/Equal Opportunity Employer.


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EXECUTIVE DIRECTOR—For international scientific organization located in Washington, D.C. Strong administrative and communications skills, plus experience in scientific-related fields such as nutrition and/or toxicology essential. Write: Ms. S. Lopez, International Life Sciences Institute, 1126 16th Street, NW, Washington, D.C. 20036.

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Requirements include a Bachelor’s degree in a physical/biological science with at least 2 years laboratory or clinical research experience. New Master’s graduates without experience will be considered. Computer literacy preferred. The ability to interpret/examine laboratory and clinical data along with an understanding of experimental design logic is also required. Approximately 25% travel is required.

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ORNL provides the opportunity to conduct full-time research and encourages interaction with the nation’s universities. In addition to providing extensive on-site library services, we also offer a competitive salary and benefits package. For immediate consideration, send your resume to: Martin Marietta Energy Systems, P.O. Box 2002, Dept. SC-804, Oak Ridge, TN 37831-6501. An equal opportunity employer. U.S. citizenship required.
THE MAX PLANCK GESELLSCHAFT invites applications for the position of a RESEARCH GROUP LEADER from scientists who have achieved a degree of international recognition in their field, preferably in Molecular Biology, Cell Biology, or Developmental Biology. The successful applicant will be expected to conduct a vigorous, original and independent research programme at the Friedrich-Miescher Laboratory in Tübingen. The position is for 5 years, carries a salary of about 70,000 DM p.a. (C3 scale of the Bundes-Besoldungsgeetz) and is roughly equivalent to an Assistant Professorship (US) or University Lectureship (UK). There is no teaching commitment. The group will have modern laboratory facilities, operating expenses, and funding for scientific and technical co-workers. Applications, including a tabular curriculum vitae, list of publications, and a description of major scientific achievements and future research plans, should be submitted until September 15, 1989, to: Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V. – Generalverwaltung – Postfach 647 D-8000 München 1.

UNIVERSITY OF HAWAII, CANCER RESEARCH CENTER OF HAWAII TENURE TRACK LABORATORY RESEARCH POSITIONS NOW AVAILABLE

HEAD, NATURAL PRODUCT PHARMACOLOGY LABORATORY
The Natural Product Pharmacology Laboratory is responsible for developing a system to screen and pharmacologically characterize marine and other natural products isolated primarily in the University of Hawaii’s Chemistry, Marine Biology, and Tropical Agriculture programs. It is anticipated that a panel of in vitro and animal cancer models will be used along with limited small animal toxicology models. Applicants should have a record of accomplishment in the pharmacology of natural products and a strong background and interest in marine biology and anticancer applications.

HEAD, PREVENTION AND CONTROL LABORATORY
The Prevention and Control Laboratory is responsible for developing in vitro and in vivo models of cancer progression to help identify new chemopreventive compounds for clinical testing. These models would also be used to identify intermediate endpoints which could be used to monitor clinical testing and which could be adapted to early detection tests for high risk populations. An initial focus of the laboratory is gastric cancer but colorectal and others are also planned for study as resources are developed. Applicants should have a record of accomplishment in tumor biology with a background and interest in developing in vitro and in vivo models of cancer progression.

HEAD, CLINICAL PHARMACOLOGY LABORATORY
The Clinical Pharmacology Laboratory is responsible for the pharmacokinetics, metabolism, and in vitro sensitivity (drug resistance) testing to support clinical trials. It is anticipated that animal models would also be used for pilot work in this area. An appropriate focus for the laboratory would be to study the pharmacokinetic, metabolic, and chemosensitivity differences in Hawaii’s multi-ethnic population. Applicants should have a strong background in clinical pharmaceutical and appropriate experience with anticancer drugs and biologics.

HEAD, IMMUNOLOGY LABORATORY
The Immunology Laboratory is responsible for developing cellular and molecular immunological assays appropriate to support the clinical testing of immuno-modulators. An additional focus would be to study immune function in Hawaii’s multi-ethnic population to determine whether the remarkable cancer incidence and mortality differences observed in Hawaii might be related to ethnic differences in host defense mechanisms. Applicants should have a record of accomplishment in applied immunology research and experience with the clinical testing of anticancer cytokines and antibody based reagents.

GENERAL CONDITIONS
It is anticipated that successful candidates will hold instructional appointments at the John A. Burns School of Medicine or other appropriate school of the University of Hawaii. Minimum requirements include an M.D. or Ph.D. in an appropriate biomedical science area and at least three years of relevant experience. Rank and salary will be commensurate with experience. Interested applicants should send a curriculum vitae and a list of three persons from whom references can be obtained to: Chair, Laboratory Program Recruitment, Cancer Research Center of Hawaii, 1236 Lauhala Street, Honolulu, Hawaii 96813. Closing Date: September 30, 1989 or until position is filled.

Molecular Biologist
Lederle Laboratories is a company dedicated to the discovery and development of new pharmaceuticals that will be used for the health and well-being of people everywhere. Currently the Medical Research Division is seeking a Molecular Biologist who will become involved in the research and development of eukaryotic expression systems.

The selected candidate will be responsible for the maintenance of cells in tissue culture, and the genetic manipulation of plasmids and eukaryotic expression vectors. This position also will involve you in the transfer of expression vectors into cells, and in the isolation and characterization of DNA/RNA/Proteins.

We’re looking for a Biologist with a BS/MS and 3-4 years’ work experience in Molecular Biology.

Discover for yourself the unique opportunity, competitive starting salary, excellent benefits and ideal work environment that only Lederle Laboratories can offer you. For immediate consideration, send your resume/c.v. with salary history to: Professional Employment Representative, Dept. MB-S, Lederle Laboratories, Middletown Road, Pearl River, NY 10965. An Equal Opportunity Employer.
The University of Michigan, Department of Physiology, is seeking to fill a tenure-track assistant professorship in cellular physiology. The successful candidate will be specifically seeking an individual studying secretion at the cellular level and utilizing a combination of patch-clamp and fluorescence probe methods to understand the underlying mechanisms and factors controlling secretion. The candidate must be capable of interacting with both cell and molecular biologists and psychologists studying secretion and gene expression. The successful candidate is expected to develop an independent research program and participate in graduate and professional teaching programs of the department. Applications, including curriculum vitae, description of research interests, plans for future research, and names of three references, should be sent to:

John A. Williams, M.D., Ph.D.
Professor and Chairman
Department of Physiology
774 Medical Sciences II
University of Michigan
Ann Arbor, MI 48109-0622
The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION: The University of North Carolina at Chapel Hill invites applications for two junior or senior tenure-track faculty positions in the Department of Cell Biology and Biophysics. Applicants must have a Ph.D. or M.D. in a biological science. The successful candidate must have a strong background in molecular and cellular biology and be committed to excellence in both teaching and research. The position is available immediately. Applications should be sent to: Dr. Robert A. Harris, Department of Cell Biology and Biophysics, University of North Carolina at Chapel Hill, 1311 Biscayne, Chapel Hill, NC 27599-7009. The University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7009. An Equal Opportunity/Affirmative Action Employer.

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THE AUSTRALIAN NATIONAL UNIVERSITY

Applications are invited for appointment to the following positions:

**FELLOW/SENIOR FELLOW**
(2 positions)

**Ecosystem Dynamics Group, Research School of Biological Sciences**

The School is seeking to strengthen its program in the ecology of the dynamics of terrestrial ecosystems. An Ecosystem Dynamics Group of about eight academic staff has been established to investigate the processes of establishment, development and rehabilitation of particular ecosystems and to develop predictive models of changes in terrestrial ecosystems. Interests within the group include modeling ecosystem processes, the dynamics of plant populations, field ecophysiology, and plant-animal interactions. A major part of the Group’s activities concentrate on eucalypt forests and woodlands. It is likely that the Australian biota will continue to be the main focus. One appointee (Senior Fellow/Fellow) will have a strong background in ecological ecology, and the ability to establish experimental and field programs that will contribute to the Group’s objectives. The other appointment (Fellow) will be made in quantitative ecology or related areas. The successful applicant will have a strong background in mathematical ecology, ecological modeling, or geographical or biological information systems. Both appointees will have an impressive record of continuing research achievement. They will be expected to have demonstrated the ability and willingness to work collaboratively and they will be expected to participate actively in PhD and postdoctoral training. Further particulars may be obtained from the School Secretary, RSBS telephone: (062) 49 4138 or facsimile: 61-62 49 0758 or 48 9995. Closing date: 30 September 1989. Ref: RSBS 6.7.1. SALARY: Senior Fellow; A$48,086 – A$55,814 p.a.; Fellow; A$36,205 – A$48,025 p.a.; APPOINTMENT: Fellow/Senior Fellow, tenurable. APPLICATIONS should be submitted in duplicate to the Registrar, The Australian National University, GPO Box 4, Canberra ACT 2601, Australia, quoting reference number and including curriculum vitae, list of publications and names of at least three referees. The University reserves the right not to make an appointment or to appoint by invitation at any time. Further information is available from the Registrar.

THE UNIVERSITY IS AN EQUAL OPPORTUNITY EMPLOYER

ABBOTT LABORATORIES

Abbott Laboratories’ Chemical & Agricultural Products Division is a worldwide leader in the manufacture of biobased pesticides and bulk pharmaceuticals. With a reputation for developing ecologically safe products, our success continues to grow. Our extensive technical resources create a superior environment for those who would like to make a significant personal and professional commitment.

**Assistant Scientist/Scientist**

The individual we seek will undertake immunological studies in association with studies on the biochemistry of bacterial toxins and their interactions with target cells. The qualified candidate will be involved in development of immunological assays, purification of toxins and derivatives, as well as the development of applications for novel immunological technologies. You will need an M.S. or equivalent, and a strong background in immunology. Technical experience should include antibody and general protein purification procedures, and the development of immunoassays. Knowledge of hybridoma technology or idiotypic mimicry would be highly desired. Please reply to Job 7620.

**Development Chemist**

This position requires an M.S. or Ph.D. in Medicinal or Synthetic Organic Chemistry with at least 3 years of process development research experience, including pilot plant scale-up. Broad synthetic and analytical experience and working knowledge of regulatory, GMP, safety, and environmental factors essential. Responsibilities include the development of processes or manufacture/purification of new and existing bulk drug products. Please reply to Job 7630.

Abbott Laboratories offers each employee an environment in which to build a distinguished career, and provides competitive compensation and benefits including a profit sharing and stock retirement plan. We are located in an attractive suburban area approximately 30 miles north of Chicago. If you believe that you can benefit from a long-term association with Abbott, and your credentials meet the indicated requirements, please send your resume with salary history to Renee McMillian, Corporate Placement, ABBOTT LABORATORIES, 1 Abbott Park Rd., Abbott Park, IL 60064. (To facilitate handling your resume, please indicate Job number on your cover letter or resume.) Abbott is an Affirmative Action Employer.

ABBOTT LABORATORIES

Quality Health Care Worldwide

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positions open

Faculty Positions
Department of Biochemistry
SUNY at Buffalo

Two tenure-track positions at the assistant or associate professor level are available in the Department of Biochemistry, School of Medicine and Biomedical Sciences at the State University of New York (SUNY) at Buffalo. Applications in any area of molecular biology and biochemistry will be considered. Responsibilities include developing a productive research program with extramural funding, training Ph.D. candidates, and teaching graduate, undergraduate, and professional students. Applicants should submit curriculum vitae, a statement of research plans and objectives, reprints and pre-prints, and have three letters of reference sent to:

Dr. Edward G. Niles, Chairman
Department of Biochemistry Search Committee
140 Farber Hall
SUNY at Buffalo, NY 14214

Deadline for completed applications is 30 September 1989.

Women, minority, and handicapped scientists are encouraged to apply.

An Equal Opportunity/Affirmative Action Employer.

Faculty Positions in Cutaneous Sciences
University of Alberta

The Division of Dermatology and Cutaneous Sciences, the University of Alberta in Edmonton, invites applications for faculty positions at both junior and senior levels (assistant professor, associate professor, and professor) to develop a research group in Dermatology and Cutaneous Sciences. The successful candidates, Ph.D. or M.D. scientists, will conduct basic research relating to the histopathogenesis, early laboratory diagnosis, and experimental therapeutic approaches of skin cancer. Facilities in the newly renovated Dermatology and Cutaneous Sciences are excellent. Responsibilities include graduate teaching and supervision. Submit curriculum vitae, representative reprints, a brief outline of research accomplishments and research approaches, and names of three references to:

Kowichi Jimbow, M.D., Ph.D.
Division of Dermatology and Cutaneous Sciences
418 Newton Research Building
University of Alberta
Edmonton, Alberta T6G 2C2
Telephone: 403-492-2425

Instruction—Non-Tenured

The University of Tennessee, Memphis, Department of Physiology and Biophysics will have a non-tenured faculty position available 1 September 1990. Assignment will be to the laboratory of Dr. C. W. Leffler, Professor. Requirements are experience in RIA of prostanoids, microsphere determination of cerebral blood flow, and cranial window procedures. Applicants should have independent grant support or high potential for achieving such within the first year. Applicants apply to: Dr. Leonard R. Johnson, Thomas A. Gerwin, Professor and Chairman, Department of Physiology and Biophysics, University of Tennessee, Memphis, 894 Union Avenue, Memphis, TN 38163.

An Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

Microbial Geneticist

A tenure-track assistant professorship is available beginning January 1990. The Ph.D. is required with postdoctoral experience favored. The individual will be expected to teach undergraduate and graduate courses in microbial genetics and to develop an active research program in microbial molecular biology. A commitment to excellence in teaching and research is required. To assure full consideration, send curriculum vitae, statement of research goals, transcripts, and names of three references by 1 September 1989.

Microbiology Search Committee
Department of Botany and Microbiology
Oklahoma State University
Stillwater, OK 74078

An Equal Opportunity/Affirmative Action Employer.
SENIOR RESEARCH SCIENTIST
TRANSMEMBRANE TRANSPORT

Committed To Scientific Excellence

The Department of Drug Delivery at Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug Inc., located in Great Valley, PA near Philadelphia is conducting research directed towards understanding the factors that limit the transport of drugs, macromolecules and delivery systems across biological membranes and developing approaches to overcome these factors.

The Department is seeking a SENIOR RESEARCH SCIENTIST to: Establish and validate in vitro methods to study trans-endothelial and trans-epithelial transport and metabolism of drugs, macromolecules and delivery systems; characterize the extra-cellular and intracellular factors limiting transport; identify cellular and sub-cellular trafficking systems that can be utilized to facilitate transport; and develop approaches to enhance transport.

Candidates should have a Ph.D. in Biological Sciences (Biochemistry or Cell Biology or Physiology or equivalent) or Pharmaceuticals, with experience in the transport of molecules across epithelial or endothelial membranes. Experience in the isolation and identification of peptides, drugs and their metabolites, transport phenomena, membrane structure and enzyme kinetics are highly desirable.

Sterling Drug Inc. offers competitive salaries and a comprehensive benefits program, along with outstanding career opportunities for personal and professional growth. For confidential consideration, please forward your resume with salary history/requirements and the names of three references to:

Employee Relations—GV41
STERLING RESEARCH GROUP
A Division of Sterling Drug Inc.
9 Great Valley Parkway
Malvern, PA 19355

A Subsidiary of EASTMAN KODAK COMPANY
Equal Opportunity Employer M/F/I/H/V

MICROBIOLOGIST/ MOLECULAR BIOLOGIST

Martek Corporation is seeking a PhD level Research Scientist for a senior level position to begin on or after September 1, 1989 at its new laboratory facilities in Columbia, Maryland. Founded in 1985, Martek is a leader in the production of high-value chemicals from microalgae grown in closed photo-bioreactors.

The successful candidate will possess a strong background in microbiology and a familiarity with recombinant DNA techniques. Previous experience in working with algae is not necessary. Responsibilities will include development and implementation of strain improvement strategies and basic research into future company areas. Technical assistance will be available. Opportunities exist for establishment of an externally funded research program; Martek scientists have been very successful in obtaining external funding, particularly through the Small Business Innovation Research Program.

Martek is located in a highly desirable area midway between Washington DC and Baltimore. The Company offers an attractive benefits program and a salary commensurate with experience. Interested candidates should send a resume to:

Richard Radmer, President
Martek Corporation
6480 Dobbin Road
Columbia, MD 21045

RESEARCH SCIENTISTS PROTEIN MODELING

Amgen is a leading biotechnology company which discovers and develops human therapeutics utilizing recombinant DNA and molecular biology technology.

The Protein Modeling Group will be responsible for establishing a program to study structure/function relationships of protein therapeutics. The program will include coordinating cooperative projects to determine the crystal structures of proteins and their receptors, modeling the interaction of peptides and their receptors, designing improved peptide analogs and working with other research groups in solving problems related to protein stability, solubility and specificity.

Candidates should have a Ph.D. in Biochemistry, Physical Chemistry or a related discipline. A minimum of three years' postdoctoral experience in computer-based protein modeling and design or in other aspects of protein structure/function is also required.

Amgen offers an excellent compensation and benefits package as well as the unique opportunity to contribute to the development of significant new human pharmaceuticals on the cutting edge of biotechnology. If you have the necessary qualifications and would like to be a part of a company that places a high priority on its human resources, please send a c.v., in confidence, to:

AMGEN, INC.
Recruitment, Dept. #407
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

Equal Opportunity Employer
HEAD BIOCHEMISTRY DEPARTMENT

Kansas State University, a comprehensive land-grant University, established a postdoctoral position in the Department of Biochemistry in the College of Arts and Sciences. The Department has a major portion of its support from the National Science Foundation. The new Head should have demonstrated excellence and leadership in research, aggressively encourage excellence in research and undergraduate and graduate education, and qualify for a tenured professor position. The Department has several vacant tenure-track positions to be filled by the new Head. Currently there are about 25 professionals in the postdoctoral associates from extramural funding. The position is available as soon as the selection is made. Review of applications will begin December 1, 1990.

Kansas State University is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR PHARMACOLOGY. Mayo Medical School invites applications for a tenure-track FACULTY POSITION in the Department of Pharmacology. The position is available 1 January 1990. The successful candidate should have a primary interest in molecular biology. The Department 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: Stephen Brimijoin, Ph.D., Department of Pharmacology, Mayo Medical School, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY/MICROBIOLOGY are available for fall, 1989 to Ph.D.s or M.D.s with appropriate research experience. Projects include studies of neuropeptide Y, an intestinal regulatory peptide. The successful applicant is expected to participate in ongoing research projects investigating the role of neuropeptide Y in the response of gastrointestinal and endocrine tissues to fasting and in other in vivo and in vitro systems. Send curriculum vitae and statement of career goals and research interests to: Charles Orosz, Ph.D., Associate Professor, Department of Surgery, The Ohio State University, 2570 standby phone, 1654 Upham Drive, Columbus, OH 43210.

POSTDOCTORAL FELLOWSHIPS available immediately in New York City area to investigate the cellular and biochemical effects of selenium compounds. Experience in tissue culture assays desirable. Send curriculum vitae and names of three references to: J. D. Frenkel, Department of Biological Sciences, Rutgers University, 101 Warren Street, Newark, NJ 07102. Rutgers University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS available immediately in New York City area to investigate the cellular and biochemical effects of selenium compounds. Experience in tissue culture assays desirable. Send curriculum vitae and names of three references to: J. D. Frenkel, Department of Biological Sciences, Rutgers University, 101 Warren Street, Newark, NJ 07102. Rutgers University is an Equal Opportunity/Affirmative Action Employer.
Director of Biological Research

Hoechst-Roussel Pharmaceuticals, Inc., an internationally based pharmaceutical company and world leader in neuroscience research, has an immediate opening for a Director to head its Biological Research Department.

This Department, comprised largely of neuropharmacologists, behavioral pharmacologists, physiologists, biochemists and biochemical pharmacologists, works closely with innovative drug discovery groups in Medicinal Chemistry and a newly formed Molecular Neurobiology Department. Primary emphasis of the group is on the development of methodology relevant to establishing in vivo and in vitro models for the evaluation of drugs to treat Alzheimer’s disease, schizophrenia, and affective disorders. Secondary interests include a small, but growing effort in dermatology. Particular focus will be on a strong collaboration with the Molecular Neurobiology Department in the integration of gene technology into the drug discovery process.

Requirements of the position include a Ph.D. in pharmacology, neuropharmacology, biochemistry or a closely related field. The successful candidate will have a significant record of research accomplishments and collaboration in the neuroscience field and a demonstrated ability to direct a large, multi-disciplinary research team. Familiarity with other areas of pharmacology is a plus.

Position is located in our modern research facilities on a 110 acre campus in Bridgewater, New Jersey, convenient to good housing, recreation and educational facilities and offers a comprehensive salary and benefits package.

Please send resume, with salary requirements in confidence to: Nancy Wilkerson, Manager, Human Resources, Building M-303, Department 39, Hoechst-Roussel Pharmaceuticals Inc., Route 202-206, P.O. Box 2500, Somerville, NJ 08876-1258. An Affirmative Action Employer M/F/H/V.

Hoechst Celanese

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OPPORTUNITIES IN ALLERGY AND SURGICAL RESEARCH

Biochemist/Pharmacologist/Immunologist/Physiologist

Senior Scientists

- PhD in Pharmacology, Biochemistry, Physiology, Immunology or related science
- 1 or more years of industry or post-doctoral experience in inflammation, allergy or wound healing research
- Training/expertise in ocular tissue, growth factors, bioadhesion, corneal perfusion media and/or allergic mechanisms is highly desirable
- Good oral/written communication skills

These positions will offer opportunities for professional growth and recognition within one of the world’s most sophisticated ophthalmic research and development laboratories. In addition, we offer a competitive salary, a comprehensive benefits package and a desirable Fort Worth location with recreational, cultural and economic advantages indigenous to the Sunbelt. For immediate and confidential consideration, please send detailed curriculum vitae with salary history and salary requirements to: Sherry H. Rightmer, Employment Supervisor, Placement & Development, T-1-3, Alcon Laboratories, Inc., P.O. Box 6600, Fort Worth, Texas 76115.

Equal Opportunity Employment • Principals Only, Please

Alcon Laboratories, Inc., is an international leader in the research, development, manufacturing and marketing of a wide range of ophthalmic products. Due to our tremendous success with a broad, sophisticated product line, we are rapidly approaching the $1 billion mark in annual sales.

We are looking for individuals with strong credentials in the areas of allergy, inflammation, wound healing and surgical research. The selected individuals should have the desire and ability to develop novel assay technology and be capable of applying this technology to the discovery of new therapeutic agents for ophthalmology.

Principal Scientist/Group Leaders

- PhD in Pharmacology, Biochemistry, Physiology, or Immunology
- Experience in allergy, growth factors or collagen biochemistry desired
- 10 years in industry or post-doctoral experience preferred
- Demonstrated ability to collaborate and manage research or drug discovery team

Equal Opportunity Employment • Principals Only, Please
POSTDOCTORAL POSITION—available immediately for postdoctoral scientists to work on a Drosophila neurobiology project in the Institute for Molecular Genetics at Baylor College of Medicine, Houston, Texas. Research projects will involve studying essential genes that have been identified with P-element-mediated enhancer detection (PNAS 84, 9123 (1987)) and that are expressed in the peripheral nervous system of embryos or larvae. Candidates should possess a Ph.D. in molecular biology, genetics, or biochemistry and have prior Drosophila experience. Starting date by arrangement, but preferably before the end of 1989. Send curriculum vitae and three letters of recommendation to: Dr. Ivan M. Lang, Surgical Research Unit 151, Zablocki VA Medical Center, Milwaukee, WI 53295. Telephone: 414-384-2000 extension 1603.

POSTDOCTORAL POSITION—available immediately for NIH-funded studies of the neurovascular control of the upper esophageal sphincter in dogs. Techniques used include EMG, manometry, quantitative videofluoroscopy, nerve stimulation and recording, and mathematically-based analysis of the data. Experience in chronic animal preparations, neurophysiology, and computer programming is preferred. Send curriculum vitae and names of three references to: Dr. Ian L. Brody, M.D., Ph.D., Department of Anatomy, State University of New York Health Science Center at Brooklyn, 450 Clarkson Avenue, Brooklyn, NY 11203.

POSTDOCTORAL POSITIONS—available immediately for studies on the role of extracellular proteases and their inhibitors in neuronal migration, axon elongation, and synaptogenesis. Studies will examine the action of these proteases on cell-cell and cell-matrix interactions, their cellular localization, and the regulation of protease expression in the developing nervous system. Individuals with experience in molecular biology, in understanding the role of extracellular matrix, extra-cellular matrix, or proteases are encouraged to apply. Send curriculum vitae, statement of research interests, and the names of three references to: Dr. N. W. Seals, Department of Biochemistry/Genetics, University of Colorado Health Sciences Center, School of Medicine, 4200 East 9th Avenue, B-121, Denver, CO 80262. The University of Colorado is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available August 1989 to study the regulation of glucocorticoids and mineralocorticoids in the control of renal ion transport. Experience in renal physiology or pharmacology preferred. Send curriculum vitae and names of references to: Dr. J. E. Davis, Department of Physiology, University of Illinois at Chicago, 835 South Wabash Avenue, Chicago, IL 60612. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available August 1989 to study the role of protein kinase C activity in maintaining smooth muscle primary cultures. A strong background in biochemistry, cell biology, or pharmacology is preferred. Salary negotiable, benefits provided. Applicants should send curriculum vitae and names of references to: Dr. H. M. Brown, Department of Pharmacology, University of Texas, 1 University Station, Austin, TX 78712. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available August 1989 to study the function of a novel protease involved in the proteolytic cleavage of hormone receptors. The protease is regulated by cyclic nucleotides and curare. Experience in cell biology or enzymology is required. Send curriculum vitae and names of three references to: Dr. R. W. Fischman, Department of Pharmacology, University of Michigan, Ann Arbor, MI 48109. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for a Ph.D. with a strong background in thermoregulation. The laboratory has a long standing grant-supported program involving the effects of a variety of drugs on thermoregulation, analgesia, pupillary size, and cerebral excitability in rats. Only a minimal background in pharmacological research is desired. Submit curriculum vitae and names of three references to: Dr. Mark W. Adler, Department of Pharmacology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE position available immediately for a Ph.D. with a strong background in thermoregulation. The laboratory has a long standing grant-supported program involving the effects of a variety of drugs on thermoregulation, analgesia, pupillary size, and cerebral excitability in rats. Only a minimal background in pharmacological research is desired. Submit curriculum vitae and names of three references to: Dr. Mark W. Adler, Department of Pharmacology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity Employer.

RICE UNIVERSITY POSTDOCTORAL RESEARCH POSITION For studies of regulation of sterol synthesis. Experience in metabolism and/or chemical synthesis of sterols and bile acids desirable. Salary dependent on qualifications and experience. Submit curriculum vitae and references to: G. J. Schroepfer, Jr., Department of Biochemistry and Cell Biology, Rice University, P.O. Box 1892, Houston, TX 77251. Rice University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSISTANT PROFESSOR—To join group investigating the role of cellular leukemic proliferation and differentiation and to participate in ongoing studies of proteins kinase, focusing upon newly identified and purified enzyme and substrates, regulation of enzyme activity, and molecular and cellular characterization; and cloning, expression, sequencing and other molecular approaches. PhD., or equivalent, background in biochemistry and molecular biology. Send curriculum vitae and names of references to: Dr. Robert G. Strickland, M.D., Chairman, Department of Pediatrics, University of New Mexico School of Medicine, 2211 Lomas NE, Albuquerque, NM 87131.

RESEARCH ASSISTANT PROFESSOR HEAD AND NECK TUMOR MOLECULAR BIOLOGY Washington University Medical Center Department of Otolaryngology/Head and Neck Surgery is seeking qualified molecular biologist (Ph.D., or equivalent) for an open position (to be filled by July 1990). Applicants with interests in molecular biology, biochemistry, and cell biology are encouraged to apply. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS—available for research in signal transduction mechanisms involved in prostatic glandular secretions in vitro and during labor. Emphasis on tyrosine kinase (lipocortins) and protein kinase substrates. Participation in an active NHF-funded project of drug discovery, Ph.D. required, experience in protein chemistry, second messengers or protein phosphorylation desired. Submit curriculum vitae and names of three references to: Dr. John Winfield, Division of Rheumatology and Immunology, University of California, San Diego, Chapel Hill, CB#7280, Chapel Hill, NC 27599, An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE position available immediately for a Ph.D. with a strong background in thermoregulation. The laboratory has a long standing grant-supported program involving the effects of a variety of drugs on thermoregulation, analgesia, pupillary size, and cerebral excitability in rats. Only a minimal background in pharmacological research is desired. Submit curriculum vitae and names of three references to: Dr. Mark W. Adler, Department of Pharmacology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION—available immediately for a Ph.D. with a strong background in thermoregulation. The laboratory has a long standing grant-supported program involving the effects of a variety of drugs on thermoregulation, analgesia, pupillary size, and cerebral excitability in rats. Only a minimal background in pharmacological research is desired. Submit curriculum vitae and names of three references to: Dr. Mark W. Adler, Department of Pharmacology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity Employer.

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POSTDOCTORAL POSITION, fish behavior, to collaborate in research on alarm pheromones, including alarm pheromones. Salary: CDN$52,500 per year, renewable for second year. Starting fall/winter, 1989. Send résumé and the names and addresses of three referees: to R. J. F. Smith, Biology Department, University of Saskatchewan, Saskatoon, Saskatchewan, Canada, S7N OWO. Telephone: 306-966-4400, Fax: 306-966-4461, Bisset SMITH@SASK.Sask.CA.

POSTDOCTORAL RESEARCH ASSOCIATE—Position is available for an appropriate individual to join on-going research on cloning, gene sequencing, expression and regulation of connective tissue haptens. Experience in molecular biology is required, familiarity with protein chemistry helpful. Forward curriculum vitae and the names of two referees to: Herbert M. Kagan, Ph.D., Department of Biochemistry, Boston University School of Medicine, Boston, MA 02118. Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL RESEARCH ASSOCIATE—MOLECULAR GENETICS

Position available immediately to study DNA rearrangement or DNA methylation in the ciliate Tetrahymena. Experience in recombinant DNA technology is required. Send curriculum vitae and names of two referees to: Dr. Kathi G. Gibrelide, Department of Biology, Marquette University, Milwaukee, WI 53233.

RESEARCH ASSISTANT PROFESSOR to study mechanism of action of hormones, steroids and drugs of abuse; metabolic pathway in the brain; teach graduate students. Salary: $18,000 yearly for 40-hour week; Monday through Friday 9:00 a.m. to 5:00 p.m. Applicants with Ph.D. in pharmacology and 2 years of experience. Send résumé only to: John Gilbride, Ph.D., National Institute of Mental Health, 901 S.W. 27th Avenue, Room 15, Miami, FL 33135. Ref. Job Order #1030977.

RESEARCH ASSOCIATE, INORGANIC-ANALYTICAL CHEMISTRY. Synthesis of air-sensitive metal complexes containing various metal ions with organic nitrogen heterocyclic ligands under dry, air sensitive, and inert atmospheric conditions. Synthesis of organic nitrogen heterocycles such as substituted bipyrindines and phenanthrolines. Purification of the compounds by gel, ion, and reverse-phase chromatographic methods such as HPLC. Study of these transition metal complexes by various electrochemical methods by voltammetry, potentiometry, thin-layer spectroelectrochemical (rapid scan spectroelectrochemical) methods. Analysis of the electro products by various spectroscopic techniques such as NMR, ESR, UV-VIS, mass spectrometry. Analyze data by use of microcomputer and report results. Requires Ph.D. degree in chemistry (organic). Also requires 3 years of experience in the job to be performed. Experience to include use of: NMR, ESR, UV-VIS, HPLC, voltammetry, potentiometry, thin-layer spectroelectrochemistry. Hours: 8:00 a.m. to 5:00 p.m.; 40 hours per week at $26,659 per year salary. This is a University Position. Please send résumé to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60605, Attention: Robert S. Felton, Reference # V-IL 9325-F. An employer paid ad.

RESEARCH POSITION available for Ph.D. or M.D. with strong background in molecular neurobiology to study neuronal gene expression. Experience with subtractive cDNA cloning and sequencing, animal tissue culture, gene transfection and expression required. Knowledge in immunosassays and computer analysis desired. Salary: $25,000. Send curriculum vitae with references to: Eugene Lai, M.D., Ph.D., Department of Neurology, Baylor College of Medicine, Houston, TX 77030.

RESEARCH SCIENTIST: Position available for a research scientist in the Rheumatology and Immunology Division of Winthrop-University Hospital. The successful candidate will have a Ph.D. and at least 2 years of postdoctoral experience. Research will be focused in the division include the role of extracellular matrix and adherence proteins in inflammation. Send curriculum vitae to: John F. Aloia, M. D., Chairman, Department of Medicine, Winthrop-University Hospital, 259 First Street, Mineola, NY 11501.

POSTDOCTORAL POSITIONS—OPEN

POSTDOCTORAL POSITION, fish behavior, to collaborate in research on alarm pheromones, including alarm pheromones. Salary: CDN$52,500 per year, renewable for second year. Starting fall/winter, 1989. Send résumé and the names and addresses of three referees: to R. J. F. Smith, Biology Department, University of Saskatchewan, Saskatoon, Saskatchewan, Canada, S7N OWO. Telephone: 306-966-4400, Fax: 306-966-4461, Bisset SMITH@SASK.Sask.CA.

POSTDOCTORAL RESEARCH ASSOCIATE—Position is available for an appropriate individual to join on-going research on cloning, gene sequencing, expression and regulation of connective tissue haptens. Experience in molecular biology is required, familiarity with protein chemistry helpful. Forward curriculum vitae and the names of two referees to: Herbert M. Kagan, Ph.D., Department of Biochemistry, Boston University School of Medicine, Boston, MA 02118. Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL RESEARCH ASSOCIATE—MOLECULAR GENETICS

Position available immediately to study DNA rearrangement or DNA methylation in the ciliate Tetrahymena. Experience in recombinant DNA technology is required. Send curriculum vitae and names of two referees to: Dr. Kathi G. Gibrelide, Department of Biology, Marquette University, Milwaukee, WI 53233.

RESEARCH ASSISTANT PROFESSOR to study mechanism of action of hormones, steroids and drugs of abuse; metabolic pathway in the brain; teach graduate students. Salary: $18,000 yearly for 40-hour week; Monday through Friday 9:00 a.m. to 5:00 p.m. Applicants with Ph.D. in pharmacology and 2 years of experience. Send résumé only to: John Gilbride, Ph.D., National Institute of Mental Health, 901 S.W. 27th Avenue, Room 15, Miami, FL 33135. Ref. Job Order #1030977.

RESEARCH ASSOCIATE, INORGANIC-ANALYTICAL CHEMISTRY. Synthesis of air-sensitive metal complexes containing various metal ions with organic nitrogen heterocyclic ligands under dry, air sensitive, and inert atmospheric conditions. Synthesis of organic nitrogen heterocycles such as substituted bipyrindines and phenanthrolines. Purification of the compounds by gel, ion, and reverse-phase chromatographic methods such as HPLC. Study of these transition metal complexes by various electrochemical methods by voltammetry, potentiometry, thin-layer spectroelectrochemical (rapid scan spectroelectrochemical) methods. Analysis of the electro products by various spectroscopic techniques such as NMR, ESR, UV-VIS, mass spectrometry. Analyze data by use of microcomputer and report results. Requires Ph.D. degree in chemistry (organic). Also requires 3 years of experience in the job to be performed. Experience to include use of: NMR, ESR, UV-VIS, HPLC, voltammetry, potentiometry, thin-layer spectroelectrochemistry. Hours: 8:00 a.m. to 5:00 p.m.; 40 hours per week at $26,659 per year salary. This is a University Position. Please send résumé to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60605, Attention: Robert S. Felton, Reference # V-IL 9325-F. An employer paid ad.

RESEARCH POSITION available for Ph.D. or M.D. with strong background in molecular neurobiology to study neuronal gene expression. Experience with subtractive cDNA cloning and sequencing, animal tissue culture, gene transfection and expression required. Knowledge in immunosassays and computer analysis desired. Salary: $25,000. Send curriculum vitae with references to: Eugene Lai, M.D., Ph.D., Department of Neurology, Baylor College of Medicine, Houston, TX 77030.

RESEARCH SCIENTIST: Position available for a research scientist in the Rheumatology and Immunology Division of Winthrop-University Hospital. The successful candidate will have a Ph.D. and at least 2 years of postdoctoral experience. Research will be focused in the division include the role of extracellular matrix and adherence proteins in inflammation. Send curriculum vitae to: John F. Aloia, M.D., Chairman, Department of Medicine, Winthrop-University Hospital, 259 First Street, Mineola, NY 11501.

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TECHNICAL ASSISTANT

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