Positions Wanted

Physiologist, M.D. Research experience in nephrophysiology (hemodynamics, endocrinology). Clinical experience in general internal medicine and experience in medical physiology. Box 31, SCIENCE.

Positions Open

THE UNIVERSITY OF WISCONSIN—PLATTEVILLE
DEPARTMENT OF BIOLOGY
1 University Plaza
Platteville, Wisconsin 53858-3009

The Department of Biology is seeking applicants for a tenure-track faculty position at the ASSISTANT PROFESSOR level to begin in fall 1988. Ph.D. in anatomy or zoology required. Teaching responsibilities will include comparative anatomy, anatomy and physiology, histology, embryology, physiology and freshmen courses. Salary is $25,000 to $28,000. A strong commitment to excellence in undergraduate teaching is required. The individual will be expected to initiate a research program involving undergraduate students. Send curriculum vitae, transcripts, and three letters of recommendation to: Chairperson, Search and Screen Committee, by 15 April 1988.


ASSISTANT PROFESSOR IN FOODS

The Foods and Nutrition Division seeks applicants for a 9-month, tenure-track position starting 21 August 1988. Responsibilities include developing independent research program in an area of foods science, teaching courses in the area, and advising undergraduate and graduate students. Ph.D. in foods science, or closely related field required; teaching and research demonstrated research ability preferred. Send curriculum vitae, research interests, statements, and three letters of reference by 16 June 1988 to: Dr. Raymond D. Mead, Director, School of Human Resources and Family Studies, University of Illinois, 905 South Goodwin Avenue, Urbana, IL 61801. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, PHARMACOLOGY—TENURE TRACK

The Fairleigh S. Dickinson, Jr. College of Dental Medicine seeks a full-time, tenure-track assistant professor in its Department of Pharmacology. Responsibilities include: Teaching undergraduate and graduate dental and dental hygiene students; developing competitive research programs; and grant writing. Requirements: Ph.D. in pharmacology, clinical degree (D.M.D., D.D.S.) or 2 years of postdoctoral experience. Submit curriculum vitae and three letters of recommendation by 25 August 1988 to: University Employment Office, Fairleigh Dickinson University, 100 River Road, Teaneck, NJ 07666. FDU is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE DIRECTOR FOR STATISTICAL STANDARDS AND VARIANCE

U.S. BUREAU OF THE CENSUS
DEPARTMENT OF COMMERCE
Equal Employment Opportunities Office

Do you possess expertise in statistics with managerial skills? The Bureau of the Census is seeking a mathematician who has demonstrated managerial competence and technical skills to serve on the Executive Staff of one of the nation’s foremost statistical organizations. A Ph.D. in mathematics, statistics, or a related field is desirable. Salary is in the executive range ($65,994 to $77,500) depending upon qualifications. U.S. citizenship is required. Please send resumes to Sara Overbaugh or Linda Prucha, 301-765-2116 or write:

Personnel Division
U.S. Bureau of the Census
Scotch Plains, New Jersey 07076
Washington, DC 20233

POSITIONS OPEN

MARYVILLE COLLEGE (TENNESSEE)
ASSISTANT PROFESSOR OF BIOLOGY

Tenure-track position available September 1988, to teach in areas of plant physiology, molecular biology, and ecology/environmental studies in a 4-year, church-related liberal arts institution that emphasizes superior teaching. Some coursework experience in biochemistry required for majors in and general education for non-majors is expected. Field work in the Great Smoky Mountains strongly encouraged. Ph.D. in biology (plants emphasis), plant ecology and systematics or related area required; teaching experience preferred. Central location in suburban Knoxville, near Oak Ridge and the Great Smoky Mountains, offers extensive opportunities for research and field studies. Send letter, curriculum vitae, and three reference letters by 18 April 1988, to: Dr. Robert Naylor, Chairman, Department of Biology and Chemistry, Maryville College, Maryville, TN 37801. Equal Opportunity Employer.

ASSISTANT PROFESSOR OF FISHERIES MARINE FISH/SHALLEW FISH ECOLOGY—Candidates with demonstrable expertise in harvest or culture of commercially exploited stocks will be given preference.

ASSISTANT PROFESSOR OF WILDLIFE MANAGEMENT (POPULATION ECOLOGY/COMPUTER SIMULATION)—An assistant professor with a strong background in mathematics, population biology, applied ecology and/or professional wildlife experience will get special consideration. Ph.D. in appropriate related field required and teaching experience at the university level preferred for both positions. Applications must be received by 1 May 1988. Two Assistant Professors will be appointed (one for fall 1987, the other to start fall 1988). Qualified candidates should submit a letter of application, curriculum vitae (including reprints of publications), a transcript of academic work, and three letters of recommendation to: Dean Richard L. Ridenhour, College of Natural Resources, Humboldt State University, Arcata, CA 95521. Telephone: 707-826-4561. Application deadline: 1 April 1988 for all papers. Humboldt State University is an Equal Opportunity/Affirmative Action/Title IX Employer.

ASSISTANT PROFESSOR OF PHARMACOLOGY AND TOXICOLOGY—A full-time, tenure-track position in biochemistry beginning 1 September 1988. Candidates should have a doctoral degree in toxicology or related field and 1 or 2 years of postdoctoral experience. Preference will be given to candidates who emphasize the application of in vitro techniques to problems in toxicology, and who have expertise in the areas of immunotoxicology, reproductive toxicology, molecular biology and/or endocrinology. Applicants should send curriculum vitae, a statement of research plans, and the names of three references to: Dr. Fred Johnson, Chairperson, Department of Pharmaceutics, U-92, School of Pharmacy, University of Connecticut, Storrs, CT 06268. An information packet on the Program in Pharmaceutical Toxicology is available by phone: 203-486-4543. Screening of applications will begin 23 March 1988 and continue until the position is filled. (Search #R2A45). The University of Connecticut is an Affirmative Action/Equal Opportunity Employer.

HARVARD SCHOOL OF PUBLIC HEALTH ASSISTANT OR ASSOCIATE PROFESSOR

Applications are being accepted from persons with graduate training, postdoctoral experience, and proven academic record in nutrition or other sciences related to nutrition: chemistry, biochemistry, and pharmacology. Applicants must demonstrate the ability to develop an independent research program and teach a chemical approach to the biological effects of foods and their constituents. Preference will be given to candidates who have a chemical background. It is hoped to make an appointment as early as September, 1988.

Each area of interest is particularly invited from qualified women and minority candidates.

Send curriculum vitae, a summary of past accomplishments, a statement of future interests in research and teaching, and the names and addresses of three references to:

Professor Peter Goldman
Harvard School of Public Health
665 Huntington Avenue
Boston, MA 02115

1440 SCIENCE, VOL. 239
ASSISTANT PROFESSOR PLANT SYSTEMATICS—OPPORTUNITY
The L. H. Bailey Hortorium, a unit of the Division of Biological Sciences and the New York State College of Agriculture and Life Sciences, Cornell University, seeks applicants for the position of assistant professor of plant systematics, starting date negotiable. Seventy-five percent of time will be devoted to research and twenty-five percent to teaching. The research effort includes developing and maintaining a vigorous independent research program in plant systematics and assuming a leading role in the Hortorium's special research program on the Califlora Fibres of Plants of the Northern Hemisphere. Candidates will be expected to conduct a strong research program, supervise graduate students, and teach in the B.S. and M.S. programs. Ph.D. required and demonstrated competence in health sciences education preferred. Rank and salary commensurate with experience. Submit curriculum vitae and three letters of recommendation by 15 April 1988 to: Chair, Department of Biology, The L. H. Bailey Hortorium, Cornell University, Ithaca, NY 14853.

ASSISTANT PROFESSOR OF MEDICINE, Section on Endocrinology and Metabolism, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, NC. Full-time faculty position for postdoctoral basic scientist. Salary $30,000 to $34,000. Significance and record of scientific publication required in two areas: sex hormone physiology and plasma lipoprotein metabolism. Send curriculum vitae by 1 April 1988 to: Dr. Norman E. Miller, Head, Section on Endocrinology and Metabolism, Bowman Gray School of Medicine, 500 South Hawthorne Road, Winston-Salem, NC 27103. Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR—TENURE-TRACK FACULTY POSITIONS—CALIFORNIA STATE UNIVERSITY, HAYWARD
Responsibilities: (i) fostering campus research and faculty development and administering sabbatical leaves and faculty exchanges, (ii) providing information to and in grant and contract procurement, writing, and submission, (iii) coordinating campus research committees, and (iv) administering faculty personnel policies, student research, teaching, and other extramural programs. Position will be filled immediately. Applicants should have a Ph.D. in an Equal Employment Opportunity/Affirmative Action Educator and Employer.

The Department of Biology is searching for a BEHAVIORAL ECOLOGIST at the level of assistant professor. We seek an ecologist whose interests focus on behavior. The successful candidate must have an outstanding record of research. Teaching responsibilities will include undergraduate and/or graduate-level courses in animal behavior. Stanford University is an Equal Employment Opportunity Employer. Women and minority candidates are especially invited to apply. Please send a letter and curriculum vitae to: Behavioral Ecology Search Committee, Department of Biology, Stanford University, Stanford, CA 94305-0020

BIOCHEMISTS
The University of Illinois is searching for candidates to CHAIR THE DEPARTMENT OF PATHOLOGY at its College of Medicine at Peoria. The Institution at Peoria, one of four regional sites, provides a program in medical education for 160 M-2, M-3, and M-4 students. The College utilizes hospital-based physicians to conduct clinical training. The position carries the rank of Professor of Pathology. Support for further departmental development is available. Candidates should have a record of excellence in teaching and research. A commitment to excellence in research and demonstrated administrative abilities. Opportunities for service are available. Applicants who hold a Ph.D. in pathobiology will be given serious consideration. Initial inquiries will be confidential. Interested candidates should send curriculum vitae to: Phillip C. Jobe, Ph.D., Chair, Search Committee, Department of Pathology, College of Medicine at Peoria, Box 1649, Peoria, IL 61656. Preference will be given to applicants received by 30 May 1988. The University of Illinois is an Equal Employment Opportunity/Affirmative Action Employer.
CELL/DEVELOPMENTAL BIOLOGIST, non-tenure track, assistant professor level, beginning August 1988. Full time, benefits in accordance with University policy. Applicants must have a Ph.D. degree in development, organogenesis, or related field. Applications are invited from women and members of minority groups. Appointments cannot be made until a full pool of qualified candidates has been identified. Send a letter of application to: Dr. Robert H. Johnson, Chairman, Search Committee, Department of Cell and Developmental Biology, University of Miami School of Medicine, P.O. Box 010791, Coral Gables, FL 33126. Review of applications begins February 18, 1988.

DEPARTMENT OF DEVELOPMENTAL BIOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Developmental and Cell Biology, University of California, Irvine, invites applications for a tenure-track position in developmental biology at the assistant professor level. The department currently has faculty working in tissue, cellular, or molecular aspects of development. We are seeking candidates working on molecular approaches to some aspect of embryonic development. Candidates will be selected primarily on the quality of their research, as opposed to the specific topic, but the department wishes to build strength in some specific areas, including molecular genetic aspects of patterning and differentiation, role of growth factors or oncogenes in development; and developmental neurobiology. Candidates working on any of these topics will be considered, but we are particularly interested in adding someone working with mammalian. The successful candidate will be expected to direct a vigorous, independent, externally funded research program, to participate in the developmental biology graduate training program, and to teach at the undergraduate level. Applicants should submit curriculum vitae, copies of recent publications, and concise statement of research accomplishments and plans, and arrange for three letters of reference to be sent to: Chair, Developmental Biology Search Committee, Department of Developmental and Cell Biology, University of California, Irvine, CA 92717. Applications should be received by 30 April 1988. The University of California is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR, OFFICE OF RADIATION SAFETY Washington State University invites applications/nominations for the full-time, non-tenured track position of Director, Office of Radiation Safety. Salary $35,000 to $45,000 per year. Position is available immediately. Deadline for applications/nominations is 15 April 1988. Candidates must hold a master's degree in the area of health physics and have experience in radiation safety or related safety areas. In addition, have experience in handling and of knowledge of regulations relating to radioactive materials, and have considerable supervisory experience in radiation safety. Experience in radiation safety or similar experience is desirable. Individuals should be engaged in modern and imaginative research in experimental aquatic ecology. The successful candidate will have a Ph.D. in health physics, and either radiation protection experience or radiation protection experience is desirable. Send a letter of application, curriculum vitae, and names and addresses of three references to: Dr. Donald L. Johnson, Associate Vice Provost for Research, Washington State University, Pullman, WA 99164-1030. Telephone: 509-335-3535.

Washington State University is an Affirmative Action/ Equal Opportunity Employer. Women and members of minority groups are encouraged to apply and to identify their status.

ECOLOGIST

The Department of Biological Sciences of the University of Pittsburgh is seeking an established scientist with a strong reputation in any branch of ecology. The successful candidate will help to develop the graduate program in Ecology and Evolutionary Biology and serve as a Director of the Pymatuning Laboratory of Ecology, a well-equipped field station located 100 miles north of Pittsburgh. Experience in general education of undergraduate level is important, and some administrative background would be desirable. The appointment will be made at the level of tenure associate professor or full professor, and will be available early in 1989. Applications should include curriculum vitae, copies of recent publications, a statement of research interests and future plans, and the names and addresses of at least three references. Address applications to: Ecology Search Committee, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA 15260.

ECOLOGIST

The Department of Biology of Loyola University of Chicago, Lake Shore Campus, invites applications for a 9-month, tenure-track position at the level of assistant professor. Ph.D. in a relevant area of biology is required. Postdoctoral experience is desirable. Individuals should be engaged in modern and imaginative research in experimental aquatic ecology. The successful candidate will have a Ph.D. in an area of biology, and either radiation protection experience or experience in radiation protection is desirable. Send a letter of application, curriculum vitae, a description of research interests, and three letters of recommendation to: Dr. Robert Hamilton, Chairman, Search Committee, Department of Biology, Loyola University of Chicago, 6525 North Sheridan Road, Chicago, IL 60626. An Equal Opportunity Employer.
**BIOCHEMIST/DRUG METABOLISM**

Marion Laboratories, Inc. is a dynamic company in the rapidly expanding health care industry. Due to our continued growth and expansion, the Preclinical Drug Metabolism group of the Biological Affairs Department is seeking a Ph.D. Biochemist interested in performing animal studies of disposition and pharmacokinetics of drugs in the discovery and development. This position will be located in Kansas City, Missouri.

The successful candidate will have at least three years of experience in drug metabolism, pharmacokinetics, and drug analysis. Industry experience is desirable. The individual must possess superior oral and written communication skills to effectively interface with all levels of management.

We offer an excellent total compensation and benefits package including bonus, stock options, profit sharing, comprehensive group health, dental, and life insurance. Please send a detailed resume including salary history in confidence to: Recruiting & Placement, Dept. PKH, PO. Box 9627, Kansas City, MO 64134. Equal Opportunity Employer.

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**CANCER IMMUNOBIOLOGY**

The University of Texas Southwestern Medical Center at Dallas has announced a new Cancer Immunobiology Program under the directorship of Dr. Ellen S. Vitetta. The plan is to develop the program into a new Center devoted to research on the immunobiology of cancer, with particular focus on leukemia/lymphoma.

The Program is located in a research complex that also houses the Howard Hughes Medical Institute, several other Centers conducting biomedical research, and an immunotoxin production laboratory to generate material for human clinical trials. The Program has access to central facilities, including common equipment, and animal rooms.

The first individuals are being recruited for September, 1988. Scientists are being sought at the associate or full professor levels to head groups which will interact to develop new approaches to the biology and therapy of lymphoid tumors. Their research will include tumorigenesis, dormancy, effector cells, lymphokines, immunotoxins and genetically engineered reagents. Such individuals should have strong backgrounds in either cell biology, molecular biology, pharmacology or tumor immunology.

Individual salaries, research space, and start-up funding are provided. Members of the Program may have academic appointments in basic and/or clinical departments and membership in graduate school programs. Investigators will be able to interact with clinicians at Parkland Memorial Hospital and the soon-to-be-completed University Hospital.

Candidates must hold M.D. or Ph.D. degrees (or their equivalents) and must have a record of major research achievement.

Please address inquiries and applications (with Curriculum vitae, references and statements of interests) to:

Dr. Ellen Vitetta
Cancer Immunobiology
University of Texas Southwestern Medical Center
5323 Harry Hines Boulevard
Dallas, Texas 75235-9048

The University of Texas Southwestern Medical Center at Dallas is an Equal Opportunity/Affirmative Action employer.

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**Postdoctoral Scientist**

**Cell Biologist/Biochemist**

The Department of Cell Biology at Smith Kline & French Laboratories, located near Valley Forge, Pennsylvania, is seeking a Cell Biologist/Biochemist to join the Department of Cell Biology to investigate the expression, processing and secretion of heterologous gene products in mammalian cells. Familiarity with a number of biochemical and immunological techniques (e.g., 1-D and 2-D gel electrophoresis, immunoprecipitation, epitope mapping and nucleic acid hybridization) is essential.

Candidates must have:

- Ph.D. in Cell Biology/Biochemistry or Biology.
- 0-2 years postdoctoral experience.

We consider postdoctoral studies to be of major importance in an individual’s career and encourage publication of findings in leading journals and full interaction with the scientific community.

We offer excellent compensation and benefits, and an attractive relocation policy. For confidential consideration, send your curriculum vitae and the names of three references to: Ms. Barbara J. Schwartz, 50028, R&D Associate Employment Administrator, Department of Human Resources, Smith Kline & French Laboratories, 709 Swedeland Road, King of Prussia, PA 19406-2799. We are an Equal Opportunity Employer, M/F/H/V.
ECOLOGIST: Seaver College, the undergraduate liberal arts college of Pepperdine University is seeking applicants for a 1-1 assignment (assistant professor level) in plant or animal ecology. Ph.D. is preferred, although all-but-dissertation candidates will be considered. The faculty member will teach a one-semester course in general ecology, general botany or general zoology for majors, and sections of biology for non-majors. Preference will be given to applicants who are active teachers, although opportunities exist to supervise undergraduate student research projects. Pepperdine is an independent Christian University under the direction of the Self-Perpetuating Board of Regents and is related to the Church of Christ.

Applications will be accepted until 15 April 1988, and should be addressed to Norman Hughes, Associate Dean, Science Division, Pepperdine University, Malibu, CA 90265. Minority and female applicants are encouraged to apply.

ECOLOGIST, ASSOCIATE PROFESSOR. One-year sabbatical replacement position for ecologist with a botanical background. Candidates should have experience in undergraduate teaching and the Ph.D. (or near completion) required. Responsibilities include teaching ecology and field methods, participation in the biology core for majors, team-teaching a general biology course for non-majors, and team-teaching an interdisciplinary course in population, food, and power. Closing date for receipt of applications is 5 April 1988. Send curriculum vitae and three letters of reference to: Dr. John T. Carlson, Department of Biology, Pacific Lutheran University (FLU), Tacoma, WA 98447. An Equal Opportunity/Affirmative Action Employer.

ENDOWED PROFESSOR AND HEAD BIOLOGY PROGRAMS THE UNIVERSITY OF TEXAS AT DALLAS

Applications are invited for the position of professor and head, Biology Programs, at The University of Texas at Dallas. The position will be supported by an endowed Professorship in Biology. The Biology Programs at The University of Texas at Dallas, an urban university with a fully accredited medical school program, encompass a variety of research areas including Physical Sciences, Mathematics, and Biology and have a long history of teaching and research in plant and animal biology. The faculty is engaged in research in molecular biology, genetics, and ecology, and the head will be expected to help develop and guide the future direction of the Biology Program.

Candidates should have a Ph.D. in Biology or a related field, with a research program that is primarily experimental and involves the use of molecular, cellular, and/or physiological techniques. The successful candidate will be expected to develop and lead an active research program, to teach courses in molecular biology, and to contribute to the academic, research, and service activities of the Biology Program. The successful candidate will also be expected to provide leadership and vision to the Biology Program.

Applications should be submitted by 15 January 1989 and will be considered until the position is filled. The University of Texas at Dallas is an Affirmative Action/Equal Opportunity Employer.

EXTENSION POSTHARVEST HORTICULTURIST: The Department of Vegetable Crops and the Division of Agriculture and Natural Resources, University of California, Davis, seeks applicants for a research position. The position involves research of postharvest aspects of transportation and marketing of fresh horticultural commodities. Candidates must have a Ph.D. in horticulture, plant physiology, or related area. Experience in horticulture is essential; in plant pathology, marketing, or engineering is desirable. Send a letter of application, curriculum vitae, transcripts, and names and addresses of references before 15 February 1989 to: Chair, Search Committee, Department of Vegetable Crops, University of California, Davis, CA 95616. Telephone: 916-752-1410. The University of California is an Affirmative Action/Equal Opportunity Employer M/F/H.

ENVIRONMENTAL TOXICOLOGIST NASA Johnson Space Center invites applications for an Environmental Toxicologist position. Candidate should have an expertise in at least two of the following areas: toxicological risk assessment, environmental health, inhalation toxicology, and analysis of gases. Duties will include evaluation of toxicological and health effects of spaceflight equipment and operations, and establishing standards for controlling these hazards. Inflation and other types of toxicological research opportunities are also available. Send curriculum vitae with references to: P. J. Cleary, NASA Johnson Space Center, Code AH37, Houston, TX 77058. NASA is an Equal Opportunity Employer.

EVOLUTIONARY BIOLOGY Department of Biological Sciences of Rutgers University is seeking for an ASSISTANT OR ASSOCIATE PROFESSOR in evolutionary biology, particularly a scientist working on evolutiory questions by using modern molecular techniques, with any group of organisms. Applicants must have demonstrated research achievement, and develop an active, funded research program. The successful candidate will participate in a large ecology and evolution graduate program within a diverse Department. Excellent start-up funds and laboratories. Send, preferably by 15 April 1988, a resume, statement of research interests, and the names of three references to: Professor Steven H. Handel, Chair, Evolution Search, Department of Biological Sciences, Rutgers University, Piscataway, NJ 08855-1059. Rutgers is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS MOLLUSCUAN AND ANIMAL BIOLOGY PENN STATE

Applications are invited for faculty positions at any rank in the Department of Molecular and Cell Biology. The Department is a fast-growing center that includes research in molecular, cell, and animal biology. The University of Pennsylvania has a well-established Program in Molecular Biology and Biophysics, and has a strong commitment to teaching and research in the life sciences. The successful candidate will be expected to develop and maintain a research program in molecular, cell, and animal biology, and will be expected to contribute to the academic, research, and service activities of the Department.

Applications should be submitted by 15 January 1989 and will be considered until the position is filled. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION—GENETICIST: Ph.D., must maintain active research, supervise M.S. students, consult with graduate students, and teach genetics courses. The University of Wisconsin, Milwaukee, 1201 N. Water St., Milwaukee, WI 53203. An equal opportunity employer.

FACULTY POSITIONS IN THE DEPARTMENT OF ANATOMY AND CELL BIOLOGY

The Department of Anatomy and Cell Biology seeks applicants for tenure-track faculty positions for a candidate with background and teaching experience in gross human anatomy, who is interested in participating in the development of computer-assisted instruction and is capable of establishing an independent research program in cell biology, cellular biology, or a related area.

Please send curriculum vitae, statement of research goals, and the names of three professional references to: Dr. Michael R. Gershon, Chairman, Department of Anatomy and Cell Biology, Columbia University, College of Physicians and Surgeons, 630 West 168 Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN MOLECULAR PHYSIOLOGY/BIOLOGY

The Department of Physiology at the Medical College of Wisconsin seeks applicants for a tenure-track position in the area of molecular genetics. Applicants will be expected to develop an active research program in molecular and cellular biology. The successful candidate will be expected to teach genetics at the undergraduate and graduate levels. The University of Wisconsin-Milwaukee, 9701 W. Watertown Plank Road, Milwaukee, WI 53226. An Equal Opportunity Employer.

FACULTY POSITION—GENETICIST: Ph.D., must maintain active research, supervise M.S. students, consult with graduate students, and teach genetics courses. The University of Wisconsin, Milwaukee, 1201 N. Water St., Milwaukee, WI 53203. An equal opportunity employer.
WEST VIRGINIA UNIVERSITY
FACULTY POSITIONS IN PHARMACOLOGY/TOXICOLOGY

West Virginia University invites applications for two tenure-track assistant professor level faculty positions in Pharmacology/Toxicology. Applicants should have a doctoral degree in pharmacology, toxicology or related discipline and postdoctoral research experience. Research accomplishments and evidence of independence and potential for independent, externally funded research will be prime considerations in the selection process. The positions will begin on or about 1 July 1988. Applications must be submitted to the Chair, Department of Pharmacology and Toxicology, West Virginia University Medical Center, Morgantown, WV 26506 by 1 April 1988.

TOXICOLOGIST: Preference will be given to applicants whose research expertise focuses on the cellular, biochemical and/or molecular events of toxicity. Teaching responsibilities require a broad knowledge of toxicology.

PHARMACOLOGIST: Preference will be given to those applicants whose research expertise focuses on the cellular, biochemical and/or molecular aspects of pharmacology. Teaching responsibilities require a broad knowledge of pharmacology.

Please refer to the above faculty positions as advertised in the West Virginia University Biomedical Research Announcements for further details.

WAVERLY STATE COLLEGE
FACULTY POSITIONS IN HEALTH SCIENCES

Applications are invited for faculty positions in Health Sciences at Waverly State College. Applicants should have a doctoral degree or equivalent and an established record of teaching, research and/or community service with evidence of professional or personal interaction with diverse populations. The faculty positions will include teaching and research responsibilities in Health Sciences. The college is located in rural Maryland and seeks faculty members who can contribute to its mission of providing education for a diverse student body. Airmont 1988. Send curriculum vitae and names of three references to: President, Waverly State College, Waverly, MD 21669.

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

TWO FACULTY POSITIONS IN FOOD SCIENCE AND NUTRITION

Assistant Professor/Associate Professor, Department of Food Science and Nutrition, University of Minnesota, St. Paul. Tenure-track or tenured. Must have Ph.D. in nutrition, or related field. Apply by March 15, 1988. Send curriculum vitae, letter of interest, three references, and a statement indicating preferences and qualifications to the Chair, Search Committee, Department of Food Science and Nutrition, University of Minnesota, 1334 Eckles Avenue, St. Paul, MN 55108. Telephone: 612-624-6232. Application includes curriculum vitae and names and addresses of at least three references. Start on or before 1 September 1988.

The University of Minnesota is an Affirmative Action Employer and specifically invites and encourages applications from women and minorities.

HEAD
DEPARTMENT OF ANIMAL SCIENCE

The College of Agriculture and Life Sciences of North Carolina State University is searching for an outstanding individual to administer the teaching, research and extension programs of the Department of Animal Science. Candidates for the position should have a Ph.D. and an excellent professional reputation in an animal science or related discipline. Administrative experience or demonstrated leadership potential in academic affairs, research, and extension is preferred. Write for a complete job description or apply by sending a letter explaining interest, qualifications, teaching and research experience, and three letters of reference by 15 May 1988, to: Dr. B. E. Caldwell, Chairman, Search Committee: Box 7620, North Carolina State University, Raleigh, NC 27695-7620. North Carolina State University is an Equal Opportunity/Affirmative Action Employer.

Assistant or Associate Scientist

Applications are sought to fill two tenure-track positions in Food Science and Technology at the Assistant or Associate Scientist level. The openings are in the general areas of microbial and/or molecular biology and areas of biochemistry. Applicants should have a Ph.D. preferably postdoctoral experience, and a strong background in basic biological, physical, organic or analytical chemistry as applied to the study of chemical processes in marine systems. Please send a letter of inquiry and curriculum vitae including a statement of research interests to:

Chairman, Chemistry Department
P.O. Box 54P
Woods Hole Oceanographic Institution
Woods Hole, MA 02543
An equal opportunity employer M/F/H/V

PHARMACEUTICAL SCIENTISTS

R.P. Scherer Corporation is an international pharmaceutical research and development company in An Arbor, Michigan. The firm offers an exceptional quality of life including a variety of sophisticated cultural and recreational activities and a seemingly affordable high standard of living.

Positions are available for staff with experience at all levels of education to work in new and exciting areas of drug delivery research:

- Development Pharmacists (Ph.D.): Responsible for design and development of unique drug delivery systems. 1-5 years experience.
- Development Pharmacists (M.Sc., B.Sc.): Laboratory experience in formulation and development. 1-5 years experience.

If you would like to join a new and exciting research enterprise, please send your resume for consideration to:

R.P. Scherer Corporation
Personnel Relations, Dept. SM218
P.O. Box 6070 • Troy, Ml 48007

Reulscher

Woods Hole OCEANOGRAPHIC INSTITUTION

Woods Hole, MA 02543
An equal opportunity employer M/F/H/V

National Institutes of Health
U.S. Public Health Service
NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE
Staff/Senior Staff Fellowship

The Surgical Neurology Branch (SNB), Division of Intramural Research (DIR), National Institute of Neurological and Communicative Disorders and Stroke (NINCDS), National Institutes of Health (NIH), announces a Staff Fellowship opening. This postdoctoral tenure-track fellowship is available to study the cell biology, endocrinology or molecular biology of the pituitary gland and pituitary tumors. The appointee will be expected to initiate independent research. SNB seeks a scientist who can relate laboratory efforts to clinical problems and who is eager to interact with an active pituitary surgery program.

For the NIH Staff Fellowship Program, candidates must be U.S. citizens or resident aliens within four (4) years of receiving U.S. citizenship, and must either have been awarded their doctoral degree in fields closely related to the position, or have been certified by a university as meeting all the requirements leading to such a degree. Candidates with less than 3 years of professional level postdoctoral research experience may be considered for entrance into the program as Staff Fellows (SF). Senior Staff Fellowships (SSF) may be considered for those having 3 to 7 years of professional level post-doctoral research experience. The salary ranges for the SF Program are $20,000pa (PhD's) $24,688pa (MD's) to $35,491pa (PhD's) $37,997pa (MD's). The salary ranges for the SSF Program are $24,000pa (PhD's) $28,000pa (MD's) to $42,800pa (PhD's) $49,268pa (MD's). Starting salary is commensurate with experience. The initial appointment is for two (2) years with additional extensions of up to five (5) years possible, for a total of seven (7) years in the program.

Further position information and qualifications requirements may be obtained by calling Clifford Schein on (301) 496-6334. The position is located in Bethesda, Maryland. Interested candidates should send a curriculum vitae, a brief statement of research interests and the names of three (3) references to: Dr. Edward H. Oldfield Chief, Surgical Neurology Branch DRT, NINCDS Building 10, Room 5037 National Institutes of Health 9000 Rockville Pike Bethesda, MD 20892 Telephone: (301) 496-5728

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
FACULTY POSITION—Department of Avian Medicine, College of Veterinary Medicine, University of Georgia. Basic research position requiring Ph.D. degree, responsibility for graduate student training. Biotechnology skills and postdoctoral training or equivalent desirable. Rank and salary open. Review of applications will not close until 10/31/88. Inquiries should be directed to: Dr. O. J. Fletcher, Head, Avian Medicine, 983 College Station Road, Athens, GA 30605. An Equal Opportunity/Affirmative Action Institution.

FELLOWSHIP—at the University of Cincinnati. To study the genetic regulation of globin synthesis, especially in reference to the oxygen-sensing switch. This research activity will entail cloning DNA from putative regulatory regions of human genes, and studying their expression in appropriate expression vectors. Ideally, candidates should have prior training in molecular genetics. For applicants with the M.D. the fellowship can be structured around either medical genetics or hematology.

Send curriculum vitae to: Donald L. Racemone, M.D., Ph.D., Comprehensive Sickle Cell Center, Children's Hospital Medical Center, Eiland and Bethesda Avenues, Cincinnati, OH 45229.

An Equal Opportunity Employer

HUMAN GENETICS

The Wadsworth Center invites applications for two tenure-track STAFF SCIENTIST positions equivalent in rank to an assistant professor. Both positions require the applicants to possess a Ph.D. or M.D., have postdoctoral experiences, and have an interest in molecular genetics applied to the human genome.

Position 1: Candidates are sought who are applying modern experimental approaches to the study of the human genome. They will be expected to carry out a vigorous independent program in basic human genetic research.

Position 2: Candidates are sought whose particular interests are the application of probe technologies to cytogenetic rearrangements, human genome probe libraries, or development of quality assurance programs for probe technology with opportunities to pursue human genetic research.

The Wadsworth Center is a research-oriented institution with a staff of over 150 scientists. It offers a unique opportunity to engage in state-of-the-art research programs which have impact on public health. Both positions can include participation in the new SUNY Public Health Sciences graduate school program. Send curriculum vitae to: Dr. Stuart Fletcher, Laboratory of Immunology or Dr. Ann Willey, Laboratory of Human Genetics, Wadsworth Center for Laboratories and Research, P.O. Box 509, Albany, NY 12201.

INDUSTRIAL POSITIONS


CHEMICAL EDUCATION FOR PUBLIC UNDERSTANDING PROGRAM (CEUP)

Salary range: $31,800 to $52,000 annual. The project is seeking two associate/assistant professor level instructors to develop instructional materials to work in classrooms and with public groups. Qualifications: M.S. or Ph. D. degree, experience teaching undergraduates, and an experience working with teachers, developing instructional materials and/or related experience. Strong academic background in chemistry and demonstrated teaching ability. Send application, curriculum vitae, letter describing qualifications, and names and addresses of three references to: CEUP, Lawrence Hall of Science, University of California, Berkeley, CA 94720. Deadline: 15 April 1988. Anticipated starting date: 1 July 1988, or by agreement. The University of California is an Equal Opportunity/Affirmative Action Employer.

LABORATORY DIRECTOR/RESEARCH ASSISTANT/PHARMACIST

Salary range: $25,000 to $30,000 annual. The position is to be filled with a research scientist who possesses a Ph.D. in biochemistry. The selection will be made on the basis of scientific background, experience, and interpersonal skills. Send application, curriculum vitae, and three letters of recommendation to: William J. Dyche, Ph.D., Associate Director for Research, University of Oregon, School of Medicine, Health Sciences, 3200 Grand Avenue, Davis, CA 95616. An Equal Opportunity Employer.

LABORATORY DIRECTOR/RESEARCH ASSISTANT/PHARMACIST

Responsibilities include administration of laboratory activity, supervision of research in pharmacology, conduct of independent research and teaching of graduate and undergraduate students. The candidate is required to have a Ph.D. in a field that can be integrated into a multidisciplinary laboratory including areas of neurobiology and a related field. It is expected that the candidate will have a strong background in research and in the basic sciences. Candidates must possess the ability to work independently and in a team setting. Send application, curriculum vitae, and three letters of recommendation to: Dr. Omer Bevan, M.D., Department of Pharmacology, College of Medicine, University of Vermont, Burlington, VT 05405. The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

MEDICAL MICROBIOLOGY FACULTY POSITION

Applicants are invited for a tenure-track position at the assistant/associate professor level. Precise teaching experience in pathogenic bacteriology and demonstrated potential for independent research are desirable. Responsibilities include basic instruction, research, and physician assistant students. Research interests are open, and limited institutional funds are available. Rank and salary are dependent on qualifications and experience. Send curriculum vitae, letter of interest, and three letters of recommendation to: William J. Dye, Ph.D., Associate Dean for Preclinical Affairs, University of Osteopathic Medicine and Health Sciences, 3200 Grand Avenue, Des Moines, IA 50312. An Equal Opportunity Employer.

MANAGER

CHILDHOOD AMPUTEE CENTER

Mary Free Bed Hospital and Rehabilitation Center has an immediate opening for a ranked pediatric Rehabilitation program serving children with limb deficiencies. Responsible for directing multi-disciplinary and independent research activities. Must have B.S. degree with emphasis in education and research. Opportunity for academic affiliation. Master's degree in health care specialty required, research experience/additional training preferred. Send resume including salary history to:

Medical Director
Mary Free Bed Hospital and Rehabilitation Center
235 Wealthy SE
Grand Rapids, MI 49503
Equal Opportunity Employer

MARINE BACTERIOLOGIST

The Department of Oceanography at Texas A&M University in College Station, Texas, is seeking a marine bacteriologist for a tenure-track position at the assistant or associate professor level, beginning 1 September 1988. Responsibilities will be on potential contributions that the candidate can make to ongoing interdisciplinary efforts in the areas of sediment and water column biology and chemistry. Present research activities include study of marine basic biology, including ecological and physiological aspects, and study of marine bacteria. Some industrial exposure is desirable. Ph.D. in marine biology, bacteriology, or related field is required. The candidate must have ability to secure extramural funding. Salary and rank are dependent on qualifications. The Department of Oceanography, Texas A&M University System includes the Texas Sea Grant Program, the headquarters of the Ocean Drilling Program, and research facilities with a running seawater system in Galveston. Please send letters of application, statements of research and teaching interests, reprints, and names of three references to: Dr. Eric Powell, Department of Oceanography, College Station, TX 77845. Deadline for receipt of application material follows the date of this issue by 4 weeks. Texas A&M is an Equal Opportunity Employer.

MEDICAL INSTRUMENTATION DESIGN ENGINEER, 40 hours per week, 8:00 a.m. to 4:00 p.m., $30,780 per year. Will design, develop, and implement measurement transducer systems for physiological and physical measurement devices using optical, thermal and magnetic sensors. Language and assembly programming languages are used in optimizing simulation of experimental data and for interfacing computer driver design and development. Utilization of analog and digital circuits for sensing, displaying and instrument design. Minimum: 4 years of science and engineering, and 6 months of experience as a medical instrumentation design engineer or 6 months of experience as a systems programmer required. Experience must include work with analog and digital circuitry or applicant must have a bachelor of science degree in electrical engineering. Six months of prior experience must include the use of C-language and assembly programming languages. Send resume to: Illinois Department of Employment Security, 401 South State Street, Chicago, IL 60605. Attention: L. Donegan, Reference #7831-L. An employer paid ad.

MOLECULAR GENETICIST

Nathan S. Kline Institute, Orangeburg, New York, is seeking to fill a research scientist position immediately. A Ph.D. in biochemistry or molecular biology is required for projects involving the molecular bases and biochemical regulations of genetic differences in brain neural transmission. Applicants should have a good background in recombinant DNA techniques, and experience with preparations and analyses of mammalian DNA, construction and screening of DNA libraries, competition Southern blotting, RFLP analysis and enzyme assays. Salary commensurate with experience. We are located in Orangeburg, approx. 20 minutes from New York City. Submit curriculum vitae, list of publications, recent reprints, and three letters of recommendation to: Dr. Casab Vadasz, Laboratory of Neurogenetics, Nathan S. Kline Institute, Orangeburg, NY 10962.
COLUMBIA UNIVERSITY

**COLUMBIA UNIVERSITY**

**Vice Provost for Research & Technology Development**

Columbia University invites applications for the position of Vice Provost for Research and Technology Development.

The Vice Provost reports to the Provost of the University and works closely with the Vice President for Arts and Sciences and the Vice President for Health Sciences. The Directors of the Offices of Science and Technology Development and Projects and Grants report to the Vice Provost.

The Vice Provost will:
- provide leadership to the University in the planning, development, and administration of research activities supported by government, foundations, and industry;
- facilitate collaboration between the University and private industry, particularly in the health sciences, the basic and applied sciences, and engineering;

**Qualifications:** Earned doctorate in science, medicine, or engineering, with a record of distinguished research experience and significant experience in an academic, governmental, or industrial setting. Candidates should possess an appreciation of university process and a demonstrated ability to develop and implement new programs.

Send curriculum vitae with letter of application including salary history before April 3, 1988 to:

Auerbach Associates
Box 2681
Cambridge, MA 02238

Columbia University is an Affirmative Action, Equal Opportunity Employer.

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**CHEMIST, MEDICINAL OR FORMULATION**

The Acquired Immunodeficiency Syndrome (AIDS) Program of the National Institute of Allergy and Infectious Diseases (NIAID) of the National Institutes of Health is seeking a Medicinal Chemist or Formulation Chemist to join the Drug Development and Applications Section of the Developmental Therapeutics Branch. The Branch is responsible for planning and directing a federal program of extramural research projects for the discovery and preclinical development of potential therapies for the treatment of AIDS and its associated opportunistic infections. Major efforts presently underway or planned in the Section include dose ranging studies of experimental drugs in retrovirus-infected animals, pharmacokinetics of new agents in normal and diseased animals, preclinical toxicity studies of potential drugs, information exchange and planning of new initiatives. A Ph.D. or D.Pharm. in medicinal chemistry, formulation chemistry or related discipline is desired but not essential. Relevant experience in clinical drug formulation, drug synthesis, production scale-up and analytical chemistry may be considered as important as specific degree training. Salary range is $35,000 - $40,000 per annum.

U.S. citizenship is required. Send curriculum vitae, bibliography and names of references to Dr. Charles L. Litterst, NIAID/AIDS Program, Room 244P, 6003 Executive Boulevard, Bethesda, Maryland 20892.

NIH is an Equal Opportunity Employer.
POSITIONS OPEN

MICROBIOLOGIST

Tenure-track position, assistant professor level, beginning August 1988; to teach undergraduate courses in microbiology and related areas. Ph.D. required. Send curriculum vitae, statement of research interests, and three letters of recommendation by 30 April 1988 to: Dr. David J. Lank, Chairperson, Biology Department, University of Minnesota, Minneapolis, MN 55455.

MOLECULAR BIOLOGIST

A tenure-track position for an assistant professor with demonstrated experience in DNA repair mechanisms is anticipated for fall 1988 in the Department of Biological Sciences, Northern Illinois University. A Ph.D. and postdoctoral experience are required. The successful candidate will be expected to develop a vigorous, externally funded research program and to direct graduate students. Submit curriculum vitae, a statement of research interests, and three letters of recommendation by 25 April 1988 to: Dr. Ana L. Acvedo, Chairperson, Biology Department, University of Puerto Rico (UPR), Rio Piedras Campus, Box 9030, UPR, is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR VIROLOGIST—BIOCHEMIST

The Institute for the Discovery of Biology, University of Wisconsin-Madison seeks applicants for a joint tenure-track, professorial appointment in the area of the molecular biology and virology of viruses. Appointments will be considered at any level, but applicants in an expansion phase in their career will be given preference. Applicants must have an outstanding record of achievement in research in virology and biochemistry. They must have a research program suitable for training and supporting postdoctoral fellows and advise students. They must be interested in and demonstrable aptitude for providing instruction to students in biochemistry. The deadline for receipt of applications is 15 May 1988. Application forms, letters of recommendation, and curriculum vitae should be sent to: The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

MEDICAL (Ph.D.) CYTGENETICIST

The California Prenatal Diagnosis Institute SFPD in San Jose, California, has a full-time position available for an experienced Ph.D. cytogeneticist (AMBIG-eligible or certified with a minimum of 4 years of experience) at a cytogenetics program. Applicants must have a strong interest in research, and it is essential that candidates be proficient in amniotic fluid, tissue, and blood cultures, photomicroscopic and darkroom skills, basic chemistry, and karyotyping. Salary is commensurate with experience and competitive with San Francisco Bay area laboratories. Send resume to: CPDI, Post Office Box 9249, number 104, San Jose, CA 95157.

MOLECULAR Virologist—BIOCHEMIST

The Institute for the Discovery of Biology, University of Wisconsin-Madison seeks applicants for a joint tenure-track, professorial appointment in the area of the molecular biology and virology of viruses. Appointments will be considered at any level, but applicants in an expansion phase in their career will be given preference. Applicants must have an outstanding record of achievement in research in virology and biochemistry. They must have a research program suitable for training and supporting postdoctoral fellows and advise students. They must be interested in and demonstrable aptitude for providing instruction to students in biochemistry. The deadline for receipt of applications is 15 May 1988. Application forms, letters of recommendation, and curriculum vitae should be sent to: The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

NUTRITION

TWO TENURE-TRACK POSITIONS available in Department of Home Economics, July, 1988. Appointees will be expected to establish strong research programs in clinical, community, or experimental nutrition providing opportunities for training graduate students. Candidates should have a Ph.D. in nutrition or related fields, postdoctoral experience preferred, and a record of accomplishment as an affiliate faculty. Send curriculum vitae, letters of reference, and statement of teaching and research interests to: Dr. Adria R. Sherman, Chairperson, Department of Home Economics, Rutgers University, Davison Hall, Cook College, New Brunswick, NJ 08903. Telephone: 201-932-9516. An Equal Opportunity/Affirmative Action Employer.

PALEOZOIC INVERTEBRATE MACROMOLAR THERIOLOGIST

U.S. Geological Survey, Branch of Paleontology and Stratigraphy, announces vacancy for invertebrate macro-


The U.S. Geological Survey is an Equal Opportunity Employer.

PHARMACOLOGIST

Applications are invited for a tenure-track faculty position in the Department of Pharmacology, Biomedical Sciences, University of Michigan, Ann Arbor. Responsibilities include teaching, residency training, postdoctoral research, and independent research. Applicants should have an M.D., Ph.D., or Ph.D. in pharmacology or a related discipline, a record of accomplishment as a scientist, and a commitment to excellence in teaching and research. Applicants should submit curriculum vitae, résumés, descriptions of research programs, and the names of three references to: Dr. D. O. Allen, Chairman, Department of Pharmacology, University of South Carolina School of Medicine, Columbia, SC 29208. The University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGIST

The Cerebrovascular Research Center Department of Neurology is seeking applications for a full-time research position at the level of associate or assistant professor. The applicant must have had extensive laboratory experience in research on the cerebral circulation with a proven record of research accomplishments. Candidates should have a strong interest in cerebrovascular disease. Applicants should send curriculum vitae, a description of research interests, and three letters of reference to: Dr. Martin Reivich, Cerebrovascular Research Center, 429 Johnson Pavilion, University of Pennsylvania, Philadelphia, PA 19104-0663. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

PLANT BIOCHEMIST: Department of Biochemicals, University of Nebraska-Lincoln, has a tenure-track position with tenure at 80% research and 20% teaching at the assistant or associate professor level. Will be expected to develop a plant research program that relies on modern biochemical and molecular biological techniques. A Ph.D. in biochemistry, or closely related area, and postdoctoral experience are required. Submit curriculum vitae, statement of research interests and plans, representative reprints, and three letters of reference by 2 May 1988 (or until suitable applicant is found thereafter) to: Dr. Robert Khus, Department of Biochemistry, 206 Biochemistry Hall, University of Nebraska—Lincoln, NE 68583-0718. Telephone: 402-472-2932. An Equal Opportunity/Affirmative Action Employer.

PLANT GENETICS/SOYBEAN.

Applications are invited for a tenure-track assistant professor position. The position requires undergraduate teaching in plant physiology and related graduate courses, guidance of graduate student research in plant physiology, and obtaining extramural funds to support an active research program. The applicant must have a Ph.D. degree with a specialization in plant physiology. Preference in plant cell physiology is preferred. Applicants should submit by 16 April 1988, curriculum vitae, names and addresses of three references, a statement of teaching goals and research objectives, and transcripts to: Dr. C. H. Chen, Biology Department, South Dakota State University, Box 2107B, Brookings, SD 57007. An Equal Opportunity/Affirmative Action Employer.

PLANT PHYSIOLOGIST

The South Dakota State University Biology Department invites applications for a 9-month, tenure-track position at the assistant professor level. The position requires undergraduate teaching of plant physiology and related graduate courses, guidance of graduate student research in plant physiology, and obtaining extramural funds to support an active research program. The applicant must have a Ph.D. degree with a specialization in plant physiology. Preference in plant cell physiology is preferred. Applicants should submit by 16 April 1988, curriculum vitae, names and addresses of three references, a statement of teaching goals and research objectives, and transcripts to: Dr. C. H. Chen, Biology Department, South Dakota State University, Box 2107B, Brookings, SD 57007. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE: NIH-funded project to study the neuroanatomy of the brain stem gustatory system. Experiments involve EM-HRP and autoradiography. Experience in neuroanatomy, immunocytochemistry, and neuronal autoradiography and curriculum vitae and statement of research interests to: Dr. Mark C. Whiteside, The Ohio State University, College of Dentistry, Dental Research Laboratories, 303 West 12th Avenue, Columbus, OH 43210.

POSITIONS OPEN

NMR SPECTROSCOPIST

Candidate must have a Ph.D. in Biochemistry and a minimum of 5 years experience in the practical application of NMR spectroscopy to the elucidation of protein structure. Knowledge of all 2D techniques is essential and preference will be given to those with postdoctoral experience (preferably in the pharmaceutical industry) and who are experienced in protein isolation and purification. Experience in computer graphic techniques is also highly desirable. The starting date is 1 June 1988 (or earlier, if required), with a yearly salary in the range of $30,000 to $35,000, subject to negotiation. Applicants should send curriculum vitae including a full description of experience, relevant reprints, and the names of three references to: Dr. Neil MacKenzie, Department of Pharmaceutical Sciences, University of Arizona, Tucson, AZ 85721. Telephone: 602-626-4898. Closing date for applicants is 9 April 1988. The University of Arizona is an Affirmative Action/Equal Opportunity Employer.
Opportunities In Biotechnology

Repligen Corporation is a leader in the application of Biotechnology to the health care and personal care markets. We are currently developing an AIDS vaccine and AIDS therapeutic products, products for the treatment of infectious diseases, cancer therapies and novel biocompatible personal care products. We take pride in the high caliber of our scientific staff and our collaborations with major research institutions and corporate partners in Europe and the United States. The expansion of our efforts has created the following opportunities:

Molecular Biology

Research Associates (200-9/26), MS or BS with 2 or more years' experience in Molecular Biology, Biochemistry or related field. Two openings exist for individuals having experience with gene cloning, sequencing and expression in procaryotic or eukaryotic systems; immunological and protein chemistry techniques helpful but not essential.

Biorganic Chemistry

Research Associate (200-30), BS/MS in Biology, Chemistry or related field. This position in Biochemistry requires experience in enzyme purification and characterization. Relevant experience in assay development will be an advantage. Successful candidate will work independently as a member of a project team.

Research Associate/Research Technician (200-13), BS/MS. This position requires a solid background in chemistry or biochemistry. Experience with analytical techniques will be considered a strong asset.

Repligen Corporation offers a competitive salary, excellent benefits and equity participation. Please submit a cover letter, resume and references to the Director of Human Resources, Repligen Corporation, One Kendall Square, Building 700, Cambridge, MA 02139. (Please refer to job code number when applying.) An Equal Opportunity Employer.

Repligen

Drug Discovery Research

CIBA-GEIGY, a worldwide leader in ethical pharmaceuticals, has three positions open in its Drug Discovery Profiling Unit in Summit, NJ. All three positions require a demonstrated interest in pharmacological approaches to receptor function at the molecular level with emphasis in the following therapeutic areas: inflammation, osteo and rheumatoid arthritis and atherosclerosis.

The first position is for a PhD with 2-5 years of postdoctoral experience and a proven record of independent research capabilities. This is a supervisory position with responsibility for providing RIA support to other research groups on the Summit site. Good interpersonal skills and the ability to interact with outside clinical investigators would be advantageous. In addition, this individual is intended to provide the Unit with a strong focus in immunologically related disease modalities. Experience in receptor related research at the molecular level is essential.

The second position is for a BS/MS level with a background in biochemistry and/or pharmacology.

The third position is at the postdoctoral level for a person with a background in neuromodulatory peptide research and/or immunology interested in investigating receptor function in peripheral tissues using homogenate/intact tissue radioligand binding techniques.

All three positions require a strong sense of teamwork and the ability to focus on goal-oriented research related to drug discovery. The opportunity exists to interact with multidisciplinary therapeutic research units in the areas of atherosclerosis, inflammation and cardiovascular. Publication of experimental data is actively encouraged.

CIBA-GEIGY is located in a pleasant suburban environment in close proximity to New York City and offers competitive salaries with appropriate benefits. Please forward your resume, to: Mr. Al Aronson, The Pharmaceuticals Division, CIBA-GEIGY Corporation, Dept. 389, 556 Morris Avenue, Summit, NJ 07901. We are an equal opportunity employer m/f/h/v.

Science Serving Mankind

CIBA-GEIGY
POSITIONS OPEN

PLANT PHYSIOLOGIST/MODELER

Incumbent will assume project scientist role in the design and conduction of air pollutant effects studies on physiological/growth responses of forest seedlings and saplings, and in developing physiological process models for simulating and predicting the response of mature trees to air pollutants from laboratory and field experimental studies. Applicants must possess a Ph.D. (or equivalent) in plant physiology, forest science or closely aligned discipline relating to air pollution, and experience of at least three years to: Mrs. Susan Carey, Northrop Services, Inc.—Botanical Sciences, 1600 S.W. Western Boulevard, Coralville, IA 52243. Application deadline is 29 April 1988. Equal Opportunity Employer.

PLANT/SOIL MICROBIOLOGIST. The NifTAL Project, a leader in biological nitrogen fixation and Rhizobium ecology research, is recruiting a plant/soil microbiologist with interests in plant-microbe symbiotic system research and development. The candidate is expected to develop an active research program, supervise research support personnel and advise graduate students. A Ph.D. in soil microbiology, crop physiology or forestry is required. Preference will be given to candidates with a proven ability to obtain extramural grants and funds and experience in symbiotic associations with tropical crops. Interested individuals are invited to send curriculum vitae and names of three references to: Director, NifTAL Project, 1000 Holomua Avenue, Paia, HI 96779.

POSTDOCTORAL ASSOCIATE available on site-specific targeting of AIDS DNA. Background in molecular biology with experience in gel electrophoresis and DNA sequencing methodology desirable. Send curriculum vitae and three letters of recommendation to: Dr. James Barlow, Department of Chemistry, Syracuse University, Syracuse, NY 13244–1200. Deadline: 1 April 1988. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW: Cellular pharmacol- ogy of prolactin related to proliferation, drug effects, etc., TCD/PC, with emphasis on gel electrophoresis and DNA sequencing methodology desirable. Send curriculum vitae and three letters of recommendation to: Dr. Diane H. Russell, Ph.D. Chair, Department of Pharmacology, University of Miami School of Medicine, 11425 SW 11th Street, Miami, FL 33174.

POSTDOCTORAL FELLOW. A position is open immediately for a Ph.D. with experience in molecular genetics (including cloning and expression) to participate in research using transgenic mice as animal models for Alzheimer disease, Down syndrome, and other human chromosomal disorders. Send curriculum vitae, reprints, and names of three references to: Dr. Charles J. Epstein, Department of Pediatrics, University of California (UCSF), San Francisco, CA 94143–0106. UCSF is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW—NEUROBIOLOGY

A position is available immediately for a postdoctoral fellow (2-year duration) to isolate cDNAs/genes for receptor proteins that are relevant to the nervous system. Cloning will be followed by studies on structure/function relationships of receptors and on the mechanisms that regulate their gene expression. Candidates with a strong working knowledge in molecular biology will be favored; however, competent applicants with a related background will be considered. The research will be carried out at the newly established Fishberg Research Center for Neurobiology and Behavior with the Department of Psychiatry at the Mount Sinai School of Medicine, located opposite Central Park on Fifth Avenue, a few blocks “upstreet” from the Guggenheim Museum. Salary: $22,000 plus fringe benefits. Send curriculum vitae and three letters of reference to: Professor Robert J. Lindsbergh, College of Physicians and Surgeons, Columbia University, M/C 52242, The University of Iowa is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW POSITION UNIVERSITY OF CALIFORNIA, IRVINE

A position to study the control of gene expression during morphogenesis in the opportunistic pathogen Candida albicans. Studies will involve gene cloning and transformation, transcriptional and translational techniques. Excellent training opportunities in molecular genetics in eukaryotic microbes. Send curriculum vitae and three letters of reference to: Paul R. Shaefer. Department of Microbiology and Molecular Genetics College of Medicine University of California, Irvine CA 92717. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available for a biochem- ician, cell biologist, or cell biologist to study specific protein-protein interactions within the immune system using a newly developed technique. Send resume and three letters of recommendation to: Professor C. W. Wu, Department of Pharmacogenetics and Drug Metabolism, SUNY Stony Brook, Stony Brook, NY 11794. SUNY Stony Brook is an Affirmative Action/Equal Opportunity Employer and Employer: AK #1.

A POSTDOCTORAL POSITION is available to study the role of idiotype recognition in the humoral response to HIV infection. The candidate will study auto-anti-idiotype responses to ligands of physiological receptors. Projects involve T-cell recognition of idiotype-related auto-anti-idiotype antibodies, and preparation of monoclonal auto-anti-idiotype antibodies to physiological receptors. Experience with the application of recombinant DNA technology to immunoglobulin genes is preferred. Send curriculum vitae and names of three references to: Dr. W. L. Clevenger, Department of Microbiology, Columbia University, 701 West 168 Street, New York, NY 10032. Telephone: 212-306-6929. Position is offered through: The Department of Medicine, St. Luke’s/Roosevelt Hospital Center, 428 West 59th Street, New York, NY 10019. An Equal Opportunity Employer M/F.

POSTDOCTORAL POSITION for recent Ph.D. beginning July to September 1988 to study signal transduction mechanisms in chondrocyte differentiation. Modulation and expression of this phenomenon are re- quired. Send curriculum vitae and names of three references to: Dr. Paul D. Benya, Orthopedic Hospital, 2400 South Flower Street, Los Angeles, CA 90057. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS HARVARD MEDICAL SCHOOL


POSTDOCTORAL POSITION. Study processing of macromolecules and receptor ligand interactions by bile duct epithelial cells. The applicant should be a recent Ph.D. with a strong background in cell biology and experience in morphology and cell culture. Send curriculum vitae, summary of research experience, and names of three references to: Dr. N. E. LaRusso, Mayo Medical School, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITION available for cell/ molecular biological/immunological studies of the mecha- nisms of subcellular compartmentalization of B-gluc- uronidase within the endoplasmic reticulum (Medda et al., Cell 50, 301 (1987)). Available immediately. Send curriculum vitae and names and addresses of three refer- ences, and description of research experience and inter- ests to: Dr. Richard T. Swank, Roswell Park Memori- al Institute, 666 Elm Street, Buffalo, NY 14263. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study bacterial degradation of organic pollutants in the environment. Applicants should have experience and study of strains able to degrade substituted aromatic compounds. Background in microbial physiology, mole- cular biology, and strain construction helpful. Position is at Tyndall Air Force Base, Florida. Annual stipend range is $800 to $34,500. Doctoral degree received within 5 years of starting date required. U.S. citizenship or permanent residency required. Send resume and names of three references to: Professor T. Chahal, Department of Environmental Engineering Research/Tyndall, University Programs Division, Oak Ridge Associated Universities, P.O. Box 11, Oak Ridge, TN 37831–0117. Telephone: 615- 576-3190.

SCIENCE, VOL. 239
SENIOR RESEARCH SCIENTIST

ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS) PROGRAM, National Institute of Allergy and Infectious Diseases (NIAID/NIH) is seeking a senior level scientist in microbiology (to include virology), immunology or molecular biology, to serve as Chief of the Pathogenesis Branch. Responsibilities of the position include planning and directing major extramural research efforts in the areas of basic research into the biologic properties, molecular biology, and host response to infection by HIV and its sequelae in order to improve the basic understanding of the causative agents, to improve diagnostic and prognostic indicators, and to develop and improve methods of prevention and treatment. Applicants should have a Ph.D.; a broad background in microbiology, virology, immunology and molecular biology; postdoctoral laboratory research experience; experience in research program administration; publications in recognized referenced journals in field of scientific expertise, and knowledge of Federal Government extramural research program administration.

Salary range is $54,907 to $71,377. U.S. citizenship is required. Send curriculum vitae to: Daniel F. Hoth, M.D., Acting Director, AIDS Program, NIAID, NIH, Building 31, Room 7A46, B-1920, Rockville Pike, Bethesda, Maryland 20892.

NIAID is an equal opportunity employer.

DIRECTOR

Research & Development

5 Prime → 3 Prime, Inc. has an immediate opening for a dynamic individual to direct a small, creative R&D group focused on the development of products for use in recombinant DNA research. The Company is seeking a proven leader with a record of significant scientific contribution in Molecular Biology. Prior product development experience in an industrial setting is preferred. The position requires a Ph.D. in Molecular Biology or Biochemistry.

The Company, located in the attractive southwestern suburbs of Philadelphia, offers an entrepreneurial environment with unlimited opportunity for personal and professional advancement. The right candidate will be eligible for an extremely attractive compensation package.

Send C.V. and 3 References to: Director, Scientific Recruitment 5 Prime → 3 Prime, Inc. 19 E. Central Avenue Paoli, PA 19301 (215) 644-4710

POSTDOCTORAL RESEARCH SCIENTIST

BIOCHEMICAL TOXICOLOGY

The Upjohn Company, a leader in research and development of pharmaceuticals, currently has an opening for a Postdoctoral Research Scientist in the Pathology and Toxicology Research unit.

The candidate selected for this position will participate in a research program studying the biochemical mechanisms of drug-and/or chemical-induced toxicity. Additional objectives include the development of new models/methodologies for the assessment of toxicity in animals or other test systems, and evaluation of their relevance to potential human health effects. Research results will be communicated to the world-wide community through publication in peer-reviewed journals.

Candidates should have a Ph.D. in toxicology or a closely related field and 0-3 years postdoctoral experience, with demonstrated experience in the biochemical/mechanistic approach to toxicology. Additionally, the candidate should possess excellent interpersonal skills to allow effective collaboration with scientists in Pathology/Toxicology and other research units.

Kalamazoo is a medium-sized Southwestern Michigan community with immediate access to a mix of excellent cultural, educational and recreational pursuits, including numerous lakes and a four-season climate. Upjohn offers a very competitive salary, commensurate with experience and an outstanding benefits program.

For confidential consideration, please call toll free 1/800/253-8600 ext. 3-6767, (inside Michigan call collect 616/323-6767) to request an employment application be sent to you. Please refer to Ad Number 20858-F when calling.

An Equal Employment Opportunity Employer M/F

Our commitment to scientific excellence continues...
U.S. PATENT AND TRADEMARK OFFICE

POSITION: Microbiologist/Patent Examiner Opportunity involves the scientific and legal evaluation of patent applications involving recombinant DNA, molecular and cellular immunology, molecular genetics, microorganism, cell biology, cell culture, fermentation, enzymology or clinical chemistry.

QUALIFICATIONS: A full 4-year or longer professional curriculum in an accredited college or university leading to a Bachelor’s Degree or higher with specific study in Molecular Biology, Biochemistry, Immunology, Enzymology, Embryology, Protein Chemistry, Microbiology or Cell Biology.

A Ph.D. or M.S. degree with relevant research experience is preferred. A B.S. degree with significant research experience will be considered.

Research Experience in any of the following areas would be beneficial: DNA cloning, protein chemistry, gene expression, sequencing techniques, muteins, hybridoma technologies, monoclonal antibody applications, mammalian or plant cell lines, cell culture, immunossays, hybridization techniques, fermentation, enzymatic reaction, diagnostics and automation of clinical analysis.

SALARY: Dependent upon experience and qualifications.

LOCATION OF POSITION: Arlington, VA

For further information contact:
Patent and Trademark Office
Office of Personnel, C&E
CPK 1, Suite 700
Washington, D.C. 20231
703-557-3631
Toll free: 800-368-3064

ZOOCLOGICAL INSTITUTE
UNIVERSITY OF BASLE-SWITZERLAND

Two assistant positions are foreseen for 1 October 1988 in Evolutionary Ecology and Population Biology. Successful candidates will have demonstrated originality, rigor and productivity in using evolutionary insights to solve problems in ecology, genetics or behavior. One position will go to a person who can teach ethology and sociobiology, but research in this area is not a pre- requisite. Quality of research and prospects for fitting into a strong working group are more important than the particular question asked or the particular organism used. We seek a balance within the group between field and laboratory and between theory and experiment.

A doctoral degree and the ability to teach immediately in German are both required, and 2-3 years of postdoctoral experience is preferred. Successful candidates will be expected to direct independent research programmes, to seek their own grants, to offer an upper division undergraduate course in the area of their expertise and to teach in the core courses of the Zoology curriculum.

The term of appointment will be 3-5 years, and the salary will be in the range SFr. 50,000—70,000. Both will depend on experience and qualifications. Habilitation will be possible.

Please send a curriculum vitae, representative reprints and the name of two references by 30 April 1988 to:
Professor S. Stearns
Zoologisches Institut
Universität Basel
Rheinsprung 9
CH-4051 Basel
Switzerland

Agracetus
Research Assistants/Technicians

Agracetus, a world leader in agricultural biotechnology, seeks innovative and self-motivated individuals to join our plant genetic engineering group. They will be part of an exciting program directed towards understanding and developing gene transfer and expression in plants. Candidates must have a B.S. or M.S. degree with one or more years laboratory experience in molecular biology. Letters of application should include a detailed description of experience with recombinant DNA techniques.

We offer a competitive salary, a comprehensive benefits package and advancement opportunity.

Please send your resume to: Personnel Department, Agracetus, 8520 University Green, Middleton, WI 53562.

BUILDING A NEW LAB?

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SIMPLY WRITE US A LETTER STATING THE SPECIFICS ABOUT YOUR PROPOSED LAB AND WE WILL DO THE REST.

WRITE TO:

SCIENCE MAGAZINE
NEW LAB SERVICE DEPT.
1515 BROADWAY
NEW YORK, N.Y. 10036
MOLECULAR BIOLOGY—SENIOR SCIENTISTS

Sandoz Pharmaceuticals Corporation is responsible for products that improve the quality of life. Our developments are the result of research conducted by professionals who specialize in many different fields.

The Sandoz Research Institute is seeking senior scientists to play vital roles in molecular biology research. These positions offer unique opportunities to develop creative, independent research programs utilizing recombinant DNA and other molecular biological technology to identify novel therapeutic approaches in the following areas: glucose regulation and diabetes mellitus, lipoprotein metabolism and atherosclerosis, monoclonal antibodies, and platelet activating factor and other mediators of inflammation and immune function. Successful candidates will work closely with interdisciplinary teams of intramural scientists and collaborate with extramural scientists.

Requirements for these positions include a Ph.D. in Molecular Biology or closely related discipline, and a minimum of 2 years’ postdoctoral experience in molecular biology preferably with emphasis on eukaryotic gene expression. In addition, you must have demonstrated ability to plan sound scientific projects, to conduct innovative independent research, to achieve research goals and to make significant intellectual contributions. A record of significant publications in major scientific journals as well as excellent written and oral communication skills are also required.

Positions at Sandoz offer personal satisfaction, professional opportunity/challenge, competitive salaries and an excellent benefits package. Our campus-like facilities are conveniently located in northern New Jersey.

For prompt consideration, please forward your resume and salary requirements in confidence to:

Joseph P. Castellano
Director, Human Resources 403/1
SANDOZ RESEARCH INSTITUTE
SANDOZ
PHARMACEUTICALS CORPORATION
East Hanover, New Jersey 07936
An Equal Opportunity Employer M/F/H/V

Immunopharmacology

Immunopharmacology at Smith Kline & French Laboratories, located near Valley Forge, Pennsylvania, is seeking to fill several positions. These include a postdoctoral scientist in collaboration with the Department of Molecular Pharmacology and two outstanding scientists at either the Senior Investigator or Associate Investigator level. We are expanding current research programs studying the cellular-molecular pharmacology of suppressor cells, and mechanistic studies of cytokine and ligand-receptor interactions, and immunoregulation.

Suppressor Cell Pharmacology (RI 1)

We are seeking a Postdoctoral Scientist to join a multidisciplinary team studying the cellular and molecular pharmacology of suppressor cell induction in an attempt to design novel therapeutic strategies for immunoregulation. The successful candidate will use a variety of in vitro and in vivo techniques to identify and characterize suppressor cell populations resulting from pharmacologic induction as well as the cellular and molecular mechanisms underlying these events.

We consider postdoctoral studies of major importance in an individual’s career and encourage publication of findings in leading journals and full interactions with the scientific community. Our postdoctoral appointments are normally for two years duration. Candidates are required to have:

- Ph.D. in Immunology or Cellular Biology with 0-2 years Postdoctoral experience.
- Experience in in vitro and in vivo models of immunoregulation.
- Knowledge and interest in receptor interactions and molecular aspects of cell activation.

Immunopharmacology (RI 2)

We have two openings for Senior Investigators (4-6 years postdoctoral experience) which could be filled at the Associate Senior Investigator level (2-4 years postdoctoral experience). These individuals will be involved in a multidisciplinary research effort focused on mechanistic and immunoregulatory studies of receptor-ligand interactions for the development of novel immunomodulatory/immunoregulatory moieties. Both lymphocytes and macrophages are targets. Candidates are required to have:

- Ph.D. in Immunology or Molecular Immunology.
- Expertise and/or practical knowledge in receptor-ligand interactions, signal transduction and molecular immunoregulation.
- A strong publication record.
- Excellent oral and written communication skills.
- Ability to interact with a multidisciplinary research team.

We offer excellent compensation and benefits as well as an attractive relocation policy. For confidential consideration, send your C.V. and names of three references to: Robert F. Obst, Manager, Personnel Relations, R0125, Smith Kline & French Laboratories, Research and Development Division, P.O. Box 1539, King of Prussia, PA 19406-0939. In response please refer to the above reference number. We are an equal opportunity employer, M/F/H/V.
POSTDOCTORAL POSITION
HUMAN TUMOR IMMUNOLOGY
A position is available 1 September 1988 to study the regulation of anti-tumor immune responses in patients receiving immunotherapy for melanoma. Applicants should have Ph.D. or M.D. with experience in cellular immunology. Send curriculum vitae and references to: Dr. David Bend, Thomas Jefferson University, 1015 Walnut Street, Suite 1005, Philadelphia, PA 19107.

POSTDOCTORAL POSITION
IMMUNOLOGIST
Position available now to study mechanism of cellular immunity to HIV. Our laboratory is utilizing human T cell clones and HIV envelope and core peptides to define cell death and latency of the virus. An active and interdisciplinary program to investigate the molecular, biochemical, immunologists and clinicians is available. Please send curriculum vitae and names of three references to: Daniel Stites, M.D., Box 0100, University of California, San Francisco, CA 94143. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION
DRUG TARGETING
RESEARCH PROGRAM
UNIVERSITY OF SOUTHERN CALIFORNIA
Positions available immediately for recent Ph.D.'s in biochemistry or medicinal chemistry. Experience in regulatory programs or in multidisciplinary research projects emphasizing biological, biochemical, and pharmacokinetic aspects of targeted drug delivery. Current research projects include: (1) Development of delivery systems for Parkinson's disease by MPTP; (2) Kenneth Chan, "Pharmacokinetics of metabolic activation of drugs using stable isotope methodology;" (3) Karl Hwang, "Drug targeting to hepatocytes and macrophage activation by MFD;" (4) Robert Koda, "Transdermal delivery of drugs;" (5) Dr. Vincent H. L. Lee, "Drug targeting to the eye and mucosal peptide delivery;" and (6) Dr. Wei-Chiang Shen, "Endocytosis, transcytosis, and extravascular processing of drug conjugates." Interested candidates should write curriculum vitae to the appropriate faculty member at: University of Southern California, School of Pharmacy, Johnsett Hall, University Park, Los Angeles, California 90033. Equal Opportunity Employer.

SAINTSBURY LABORATORY
MOLECULAR PATHOLOGY OF PLANTS
POSTDOCTORAL AND RESEARCH ASSISTANT POSITIONS
The Sainsbury Laboratory, which is being established at the John Innes Institute, Norwich, will undertake basic research on the mechanism of developing disease-resistant crop plants. It has been set up with a grant of £15 million from David Sainsbury through his Gasby Charitable Foundation.

Applications are invited for postdoctoral and research assistant positions to investigate various aspects of the interactions between plant viruses and their hosts. The qualifications are an enthusiasm for a molecular approach and talent for laboratory work.

Some positions will be available in the summer/autumn of 1988 with the extent of funding to be determined. Applications will be considered for both positions in the summer of 1989 when the new laboratory building will be complete. Further details can be obtained from: Dr. David Baulcombe, IPFS, Cambridge University, CB2 1QH, Cambridge. Salaries will be in the range £9,865 to £15,720 for the postdoctoral positions and £8,675 to £11,680 for the research assistant positions. Contributory pensions are available.

Applications should be sent to: The Personnel Officer, John Innes Institute, Colney Lane, Norwich, Norfolk NR4 7UH (England). Include curriculum vitae and the names of two referees. Please quote reference S/L/B.
Join a World leader in drug delivery and make a difference

ALZA’s innovative drug delivery systems make a real difference in people’s lives. Here’s how you can be part of the team.

Research Scientist – Biological Sciences

A Research Scientist is required to participate in and coordinate a research program on the mechanisms and prevention of irritation in epidermal and mucosal tissues. Candidates should have expertise in microvascular physiology and/or the pharmacology of irritation. Experience in electrophysiology would also be desirable. The position requires a Ph.D. in an appropriate biological science together with significant postdoctoral experience.

Staff Scientist – Toxicology

A Staff Scientist is needed to ensure compliance with GLP regulations and to direct toxicology studies investigating issues of bio-compatibility and tissue irritation. The position requires a Ph.D. or equivalent in an appropriate biological science with subsequent experience in experimental pathology, histology or surgery.

Please send your resume, indicating area of interest to ALZA Corporation, Employment Department, 950 Page Mill Road, P.O. Box 10950, Palo Alto, CA 94303-0902. We are an equal opportunity employer.

NEUROSCIENTIST
PH.D. LEVEL
PHARMACEUTICAL RESEARCH

Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company, has an immediate opening for a scientist to join the Neuroscience Section within our Pharmacology Department. The selected candidate will have interest in neurotrophic influences on regeneration and degeneration in the mammalian nervous system and will join a group working focusing on development of agents to treat neurodegenerative disorders such as Alzheimer’s Disease.

Successful applicants will possess the following:

• A Ph.D. in a neuroscience-related discipline
• Experience in studying the biological actions of neurotrophic agents using tissue culture or molecular biological approaches
• Excellent oral and written communication skills, as well as a documented record of research excellence

We offer excellent compensation and benefits at our modern facilities adjacent to the University of Michigan campus. Interested, qualified candidates should forward curriculum vitae and salary requirements to: Ms. S. Hultquist, Warner-Lambert/Parke-Davis, 2800 Plymouth Road, Ann Arbor MI 48105.

“EQUAL OPPORTUNITY IN ACTION”

PARKÉ-DAVIS
DIVISION OF WARNER-LAMBERT COMPANY

MOLECULAR BIOLOGIST, IMMUNOLOGIST, VIROLOGIST

The Acquired Immunodeficiency Syndrome (AIDS) Program of the National Institute of Allergy and Infectious Diseases (NIAID) of the National Institutes of Health is seeking a MOLECULAR BIOLOGIST, IMMUNOLOGIST, and RETROVIROLOGIST to join the Targeted Drug Discovery Section of the Development Therapeutics Branch. The Branch is responsible for planning and directing a federal program of extramural research projects for the discovery and preclinical development of potential therapies for the treatment of AIDS and its associated opportunistic infections. Major efforts presently underway include government-industry-academia cooperative drug discovery groups, animal models for evaluation of immunomodulators, basic biochemical, immunological and virological research directed toward targeted drug discovery, information exchange, data coordination, and planning of new initiatives. A Ph.D. in molecular biology, immunology, virology, or another related discipline is required. Research experience in mammalian and/or prokaryotic expression systems, biological response modifiers, or retrovirology is desirable but not required. Experience with HIV or simian immunodeficiency virus (SIV) would be helpful. Salary range for these positions is $39,501 - $60,683.

U.S. citizenship is required. Send curriculum vitae, bibliography and names of references to Dr. Margaret L. Johnston, NIAID/AIDS Program, Room 245p, 6003 Executive Boulevard, Bethesda, Maryland 20892.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

POSITION AVAILABLE
IMMUNOLOGIST

The International Laboratory for Research on Animal Diseases (ILRAD), is an internationally funded, major institution with the mandate of developing improved methods to control two important diseases of livestock, trypanosomiasis and theileriosis. The multidisciplinary research program includes biochemistry, molecular biology, immunology, cell biology, pathology, parasitology, electron microscopy and entomology with appropriate supporting units. Applications are invited for the position of:
IMMUNOLOGIST—
POSITION REF: PD/6/88/1

A postdoctoral position is available in a multidisciplinary research group studying cellular immune responses of cattle to the protozoan parasite Theileria parva. The successful candidate will investigate helper T cell responses specific for parasitized cells, with the aim of identifying parasite antigens important in protective immunity.

Applicants will have a PhD in immunology and relevant experience of the analysis of cell mediated immune mechanisms. An initial veterinary qualification and/or experience in rumenum immunology will be advantageous. This is an International staff position and salary will be paid in US dollars. Initial salary will be determined by qualifications and experience. Scientific staff are expected to contribute to the training program. Moving, housing, commutation and education allowances are paid and there are medical and retirement benefits. Applicants should include current curriculum vitae and names and addresses of three referees. Applications, citing the position reference number, should be sent by April 15th, 1988 to:
The Chief Personnel Officer
ILRAD
P.O. Box 3079
NAIROBI
Kenya

POSITION AVAILABLE
IMMUNOLOGIST

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The Chief Personnel Officer
ILRAD
P.O. Box 3079
NAIROBI
Kenya

MOLECULAR BIOLOGIST, IMMUNOLOGIST, VIROLOGIST

The Acquired Immunodeficiency Syndrome (AIDS) Program of the National Institute of Allergy and Infectious Diseases (NIAID) of the National Institutes of Health is seeking a MOLECULAR BIOLOGIST, IMMUNOLOGIST, and RETROVIROLOGIST to join the Targeted Drug Discovery Section of the Development Therapeutics Branch. The Branch is responsible for planning and directing a federal program of extramural research projects for the discovery and preclinical development of potential therapies for the treatment of AIDS and its associated opportunistic infections. Major efforts presently underway include government-industry-academia cooperative drug discovery groups, animal models for evaluation of immunomodulators, basic biochemical, immunological and virological research directed toward targeted drug discovery, information exchange, data coordination, and planning of new initiatives. A Ph.D. in molecular biology, immunology, virology, or another related discipline is required. Research experience in mammalian and/or prokaryotic expression systems, biological response modifiers, or retrovirology is desirable but not required. Experience with HIV or simian immunodeficiency virus (SIV) would be helpful. Salary range for these positions is $39,501 - $60,683.

U.S. citizenship is required. Send curriculum vitae, bibliography and names of references to Dr. Margaret L. Johnston, NIAID/AIDS Program, Room 245p, 6003 Executive Boulevard, Bethesda, Maryland 20892.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
POSTDOCTORAL POSITIONS

POSTDOCTORAL/RESEARCH ASSOCIATES IN PROTEIN BIOCHEMISTRY. Positions available for 3-year, federally funded study on hormonally regulated proteins. Research involves purification, peptide mapping, sequencing, analysis of posttranslational modifications, cloning, and expression of cloned cDNA. Salaries $18,000 to $24,000 per year. Submit curriculum vitae and names, addresses, and telephone numbers of three references to: Box 41, SCIENCE.

POSTDOCTORAL RESEARCH OR RESEARCH ASSOCIATE POSITION available on 1 July 1988 in an ongoing research program studying metabolic responses of plants to interacting stresses, including air pollution. Individuals should have primary training in plant biochemistry and/or plant molecular biology, with secondary training in plant physiology, agronomy, or other plant science. Send curriculum vitae and names of three references to: Leonard H. Weinstein, Program Director for Environmental Biology, Boyce Thompson Institute at Cornell University, Tower Road, Ithaca, NY 14853.

POSTDOCTORAL RESEARCH POSITION anticipated for Ph.D. neuroscientist to join multidisciplinary basal ganglia research laboratory in the Department of Neurology, Hahnemann University School of Medicine in Philadelphia. Position involves participation in neurochemical, behavioral, and electrophysiological studies of experimentally induced parkinsonism and recovery of function following brain damage. Applicant with neuroscience or electrophysiology background valuable to learn other techniques preferred. Position open beginning 1 July 1988. Send curriculum vitae, summary of research experience, outline of research/career objectives, and three letters of reference to: Dr. E. S. Schneider, Department of Neurology, UCLA School of Medicine, Neuromicrological Research Center, Los Angeles, CA 90024.

Meharry University is an Affirmative Action/Equal Opportunity Employer.
RESEARCH SCIENTIST
Receptor Pharmacology

G.D. Searle, a worldwide leader in the pharmaceutical industry, now seeks a Ph.D. Scientist to design and conduct studies on drug-receptor interactions, and receptor isolation and characterization.

Position also requires development of laboratory and program-related objectives in the Molecular & Cell Biology group, and interactions with appropriate molecular biology staff regarding purification and cloning of receptor molecules. Ph.D. in biological science (Pharmacology preferred) or equivalent work experience required, along with at least 3-5 years in drug/receptor interactions. The preferred candidate will also have formal training in receptor pharmacology and receptor isolation.

We offer an attractive salary plus comprehensive benefits. For confidential consideration, please send your resume with salary history to:
G.D. Searle & Co., Dept. HY4, 4901 Searle Parkway, Skokie, IL 60077. Equal Opportunity Employer M/F/H/V.

RESEARCH SCIENTISTS

Candidates should have a recent Ph.D. in Pharmacology, Biochemistry, Cell Biology or related field with 1-3 years relevant postdoctoral experience. Our laboratory is currently involved in the search for new chemotherapeutic strategies for the treatment of malaria. We pioneered work in the area of inhibition of polyamine biosynthesis for the treatment of parasitic diseases. We are also interested in research in the areas of nucleoside/nucleotide metabolism, coagulation, membrane biochemistry and glycoprotein biosynthesis. This is an opportunity to work on basic research problems in an exciting, goal oriented environment. Work includes cell culture, enzymology, HPLC and other basic biochemical/pharmacological techniques.

We offer excellent compensation, comprehensive benefits, and relocation assistance. Please send your curriculum vitae with bibliography, salary expectations, and names of three references in confidence to:

Job Code AJB
Personnel Services Manager

Merrell Dow

MERRELL DOW
RESEARCH INSTITUTE
2110 E. Galbraith Road
Cincinnati, Ohio 45215
U.S. Citizenship or Permanent Visa Required
An Equal Opportunity Employer M/F/H/V
WALther Oncology Center
Faculty and Postdoctoral Positions
Molecular Biology

The Walther Oncology Center at the Indiana University School of Medicine, is seeking motivated and productive candidates to pursue original basic research in the areas of:

- Gene transfer (transfection, retroviral infection, transgenic mice), gene cloning, regulation of gene expression (including oncogenes), especially as they relate to growth and differentiation factors and their receptors, and genetic mechanisms of multi-drug resistance to chemotherapeutic agents.

Faculty (tenure- and non-tenure-track) and post-doctoral positions are available for candidates with PhD, MD and MD/PhD degrees. Primary appointments will be in clinical and/or basic science departments within the Medical School. Laboratory space will be in the new Clinical Research Building.

Interested candidates should send their C.V., publication list, research goals and the names and addresses of at least three references to:

Hal E. Broxmeyer, PhD
Professor of Medicine,
Microbiology and Immunology
Scientific Director, The Walther Oncology Center
Indiana University School of Medicine
Clinical Building, Rm 379
541 Clinical Drive
Indianapolis, Indiana 46223

Indiana University is an Affirmative Action/Equal Opportunity Employer

RESEARCH SCIENTISTS

Integrated DNA Technologies, Inc. is seeking qualified scientists to conduct research in exciting new areas of clinical diagnostics and therapeutics. These positions will provide an opportunity for original research and leadership within a growing organization.

All positions require a Ph.D. degree; relevant postdoctoral or industrial experience would be desirable.

MOLECULAR BIOLOGIST: Experience in recombinant DNA technology and DNA probe hybridization systems, with some background in clinical or diagnostic microbiology.

VIROLOGIST: Experience in clinically relevant virology, recombinant DNA technology, and tissue culture; for research on antiviral therapeutics.

MOLECULAR GENETICIST: Experience in molecular biology and DNA hybridization technology as related to cancer/ oncology or genetic disorders.

BIOORGANIC CHEMIST: Experience in nucleic acid, nucleoside or backbone modification, and affinity/solid support chemistry.

In addition to a stimulating scientific environment, we offer a competitive compensation/benefit package and relocation assistance. IDT is located in an attractive midwestern community and is in close proximity to a major university and medical school complex. Please send a resume and description of research experience to: Personnel, Integrated DNA Technologies, Inc., Tech Innovation Center, Oakland Campus, Iowa City, IA 52242.

IDT
INTEGRATED DNA TECHNOLOGIES, INC.

Scientist
Drug Metabolism

Smith Kline & French Laboratories, a leader in pharmaceutical research, is seeking an experienced scientist with a background in protein chemistry or protein biochemistry for its Drug Metabolism Unit located in suburban Philadelphia.

The successful candidate will:

- Apply multidisciplinary techniques to study disposition of therapeutic proteins to support drug development and discovery.
- Study protein and protein-ligand interactions involving specific disposition process.
- Study the intrinsic and extrinsic factors governing the pharmacokinetics and metabolism of proteins of therapeutic interest.
- Plan and develop analytical approach as needed to conduct these studies.

Candidates are required to have:

- Ph.D. in protein chemistry or protein biochemistry or related areas with strong background in protein chemistry.
- Experience in biochemical methods development required; e.g., immunoassays, HPLC and enzymatic assays.
- Experience in modifying protein/peptide molecules with specific properties.
- Familiarity with general analytical tools applicable in protein biochemistry required; e.g., electrophoresis/isoelectricfocusing, immunoblotting, protein column chromatography, etc.
- Knowledge in enzyme kinetics.
- Demonstrated ability to integrate and apply multidisciplinary approaches in research problems.
- Knowledge in drug metabolism and pharmacokinetics preferred.

We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. For confidential review, please forward your C.V. and names of three references to: Marianne J. Shandy, Manager, Personnel Relations, J0003, Smith Kline & French Laboratories, Research & Development, P.O. Box 1539, King of Prussia, PA 19406-0539. We are an Equal Opportunity Employer. M/F/H/V.

Senior Scientists - Molecular Biology

The Lister Hill National Center for Biomedical Communications, the research division of the National Library of Medicine located at the National Institutes of Health in Bethesda, Maryland, is seeking qualified individuals for a Senior Scientist position in its Biotechnology Information Program. The candidate is expected to establish and conduct a research program in molecular biology computing which may include, but is not limited to, prediction of structural or biological function from sequence data, comparative analyses of physical and genetic maps, pattern recognition in sequence data, or evolution of gene sequences. Computing facilities include twenty Sun workstations and servers, DEC Vax 11/780S, IBM mainframes, a network link to a Cray S-MP at the National Cancer Institute, and direct Arpanet access. Programming staff support is also available.

Applicants must have a Ph.D. in molecular biology or a related field and a publication record in the above research areas. Appointment is for a one- to two-year period, extendable to four years. Salary range is $40,000 to $65,000 depending upon experience.

Send curriculum vitae and the names of three references to:

Dennis Benson, Ph.D.
Lister Hill National Center for Biomedical Communications
National Library of Medicine
National Institutes of Health, Public Health Service
8600 Rockville Pike, Bethesda, MD 20894

For further information call:
Ms. Yvonne Reid (301) 496-4441

NIN IS AN EQUAL OPPORTUNITY EMPLOYER
CELL BIOLOGY OPPORTUNITIES
MARKETING • R&D

Molecular biology, tissue culture, cell biology and immunology - all are areas of interest in our expanding circle of science. Formed in 1983 from a merger of Bethesda Research Laboratories (BRL) and the Gibco Laboratories Division of the Dexter Corporation, Life Technologies is a preeminent and innovative leader in the expanding life sciences research community, the bioprocessing marketing, and the biotechnology industry.

We have now made a major commitment to expand our product offering in cellular biology. We are looking for the following managers with industry experience and a working knowledge of cell growth factors, hormones and receptors, membrane reagents, oncoprotein reagents, second messenger and related reagents.

MARKETING MANAGER

Create strategic plan and forecast for Cell Biology business. Initially serve as Marketing Manager AND Product Manager until business supports additional staff. A record of success with 3+ years relevant marketing and/or product management experience required. MBA preferred.

DIRECTOR, CELL BIOLOGY R&D

Organize, staff and manage R&D function with capacity to propose, design and develop new products or improve existing products. We seek a Ph.D. with post doctoral training. Business experience with exposure to Sales/Marketing. Operations and other business functions essential.

Interested candidates should send resume, in confidence, to:
Director of Human Resources
Life Technologies, Inc.
8717 Grovetown Circle
P. O. Box 6009
Gaithersburg, MD 20877
An equal opportunity employer. M/F/V/H

Senior Scientist

Geneticist/Cell Biologist, Ph.D., postdoctoral experience preferred, to join our effort in producing improved crop plants. Candidate should be a well-trained plant biologist with an interest in the problems of agriculture and the ability to contribute to the solution of these problems. Background in agricultural aspects of plant science desirable, as is experience with plant cell and tissue culture, transformation, and the analysis of transgenic plants.

Zoecn Research Institute has been a leader in innovative agricultural research for more than 15 years. The institute has established research programs in herbicide design, plant biotechnology, insect physiology/biochemistry and chemistry. Research in plant biotechnology supports the plant breeding efforts at Northrup King Seeds, Rogers Brothers Seeds, and other Sandoz seed companies. Our research environment encourages interaction with other scientists throughout the world.

To apply for the position, please send a letter describing your interests, a curriculum vitae and the names of three references to:

SANDOZ CROP PROTECTION CORPORATION
Zoecn Research Institute
Human Resources Department
975 California Avenue
Palo Alto, CA 94304
AA/EOE

Research Opportunities

The Plant Molecular Biology Group of Monsanto Company is seeking outstanding scientists to expand our research efforts in several areas of plant biology. Positions are available for:

Senior Scientist with a Ph.D. in Molecular Biology, Biochemistry or Plant Pathology, and a significant record of accomplishment. Post Doctoral experience is desirable.

Research Assistants and Associates with a BS or MS in Biochemistry, Molecular Biology or related fields. Experience in protein purification, gene isolation or plant tissue culture especially desirable.

Post Doctoral Research Associates in Molecular Biology, Biochemistry, Virology, Plant Pathology or Plant Tissue Culture/Transformation.

Monsanto offers an excellent salary and benefits package and stimulating work environment. Please send your curriculum vitae, a summary of your research interests, and 3 letters of reference to: MONSANTO COMPANY: John Bussen; Department BBSBO-AG; 700 Chesterfield Village Parkway, St. Louis, MO 63196. Equal Opportunity Employer M/F/H/V.

Monsanto

PROJECT MANAGER

If you’re interested in a career with a leading health care company, why not begin your search with a company respected the world-over for its profound commitment to care, to quality, and to innovation? Baxter Healthcare Corporation has demonstrated that commitment for over 30 years.

Currently, our Baxter Hyland Division is seeking a qualified individual to plan and implement programs to improve quality and yield of blood-derived therapeutic proteins; coordinate and implement projects from inception to completion; conduct feasibility studies; organize scale-up activities; and provide support for transfer of technology into production. A technical degree or equivalent experience (Ph.D. in Protein Chemistry or an M.S. with 7+ years protein purification experience desirable); strong supervisory, communication, and project organization experience; and knowledge of standard lab equipment, production equipment and statistical procedures required.

Baxter offers a fast-paced, stimulating work environment, attractive benefit and compensation plans, and the opportunity to work for a world-class leader in the health care industry. For consideration, please send a current resume with salary history to: Ms. Vickie Thrasher, Baxter Hyland Division, 4501 W. Colorado Blvd., Los Angeles, CA 90039. PRINCIPALS ONLY, PLEASE. Equal Opportunity Employer.

Hyland Division

Baxter
Research Associate

Full-time position available 1 April 1988 for scientist with Ph.D. or M.S., and research experience in electron microscopy to study mechanisms of involution degeneration in cell culture and to supervise routine operation of laboratory. Contact: Dr. Francis A. Mithen, Department of Veterinary Science, University, 3600 Vista Avenue, St. Louis, MO 63110. Telephone: 314-577-6082.

Research Associate

The Center for Laser and Applied Technology, Charlotte Memorial Hospital and Medical Center invites applications for a full-time research associate position. The position will involve research in cardiovascular applications of lasers. Individuals applying should have previous experience in small animal cardiac surgery, cardiac catheterization, cardiopulmonary bypass perfusion of cardiovascular systems, A-2 or 4-year degree in a related field is also required. Interested applicants should submit curriculum vitae and letters of recommendation by 15 April 1988 to:

George Tanis
Heineman Medical Research Laboratory
P.O. Box 32861
Charlotte, NC 28232
Equal Opportunity Employer

Immediate opening. Research Associate—Ph.D. with experience in protein purification, HPLC, immunology, biochemistry, and/or related areas. Position involves involvement in experimental studies of microbial and nutrients/herbicides in marine and freshwater ecosystems. A second position is available to assist in studies of nutrients and light effects on freshwater phytoplankton communities. The positions are available for at least 2 years. Experience with algae and/or aquatic chemistry, and a B.S. degree are preferred. For information, contact: Dr. Alan Berken, Institute of Marine and Environmental Studies, University, Box 36, 85060, Miami, FL 33101. An Equal Opportunity Employer.

Research Associate

Position now open to study the role of sperm proteinases involved in mammalian fertilization. Emphasis is on the mechanisms of action and regulation of the proteolytic enzyme system. This position will allow for independent research as well as training in an area of interest to the academic, medical and pharmaceutical communities. Applicants with interest in cell/molecular biology, biochemistry, or immunological aspects of the project are encouraged to apply. Send curriculum vitae, including citizenship status, the names of three references and statements of experience and career goals to: Kenneth L. Polakowski, Ph.D., Department of Obstetrics and Gynecology, University, Box 4111, 4911 Barnes Hospital Drive, St. Louis, MO 63110. An Equal Opportunity/Affirmative Action Employer.

Research Technicians—Applications are invited for two full-time technicians in aquatic research. One position is open to an experimental study of microalgae and nutrients/herbicides in marine and freshwater ecosystems. A second position is available to assist in studies of nutrients and light effects on freshwater phytoplankton communities. The positions are available for at least 2 years. Experience with algae and/or aquatic chemistry, and a B.S. degree are preferred. For information, contact: Dr. Alan Berken, Institute of Marine and Environmental Studies, University, Box 36, 85060, Miami, FL 33101. An Equal Opportunity/Affirmative Action Employer.

Research Toxicologist—Applications are invited for a toxicologist in biochemistry of mechanisms of toxicity and carcinogenicity to lead original research projects. Ph.D. in biochemistry, toxicology, or a related area, and at least 2 years of postdoctoral experience in drug or chemical carcinogen metabolism required. Experience is required in the detection of DNA adducts using radioactive carcinogens and by P-postlabeling, and synthetic procedures involving DNA recombination, metabolic analysis by NMR and mass spectrometry, chromatographic techniques including HPLC and GC, operation of a superconducting NMR machine, and GCMS. Salary $46,000 per year, forty hours per week. Contact: The Job Service at 516 North Mangum Street, Durham, NC 27710, or the Job Service nearest you. Refer to Job Order Number NC 7102163.

Research Associate of Microbiology and Immunology

Research associate: Minimum requirements: Ph.D., M.D., or D.V.M. with experience in cellular and/or molecular immunology to work on a project concerning the pathogenesis of chronic inflammatory diseases. An appointment will be made contingent upon experience and qualifications. Send résumé to: Mr. K. E. Johnson, University of Illinois at Chicago, Department of Microbiology/Immunology, E-703 MSA, 836 South Wolcott, Chicago IL 60612. The University is an Affirmative Action/Equal Opportunity Employer.

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Research Technicians III to participate in research leading to production of transgenic animals by injection of embryonic stem cells into blastocysts. Overall research is aimed at modifying specific genes in a predictable way with a view to gene therapy and the generation of research tools in one of the following areas: R.S. in biological science is required. M.S. in biological science and at least 1 year of experience with microinjection and embryo transfer, and in mouse breeding preferred. This position is open to the University of North Carolina at Chapel Hill, but is available immediately if the successful candidate is willing to begin work in the University of Indiana, Bloomington. Starting salary commensurate with background and experience. Salary range: $19,944 to $30,264. For an application, contact Ms. Carol Van King.

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Visiting Assistant Professor of Biology

Hope College is seeking to fill the position of visiting assistant professor of biology. This appointment will be for a 2-year period, with the possibility of renewal for an additional 2 years. The individual selected for this position will be expected to teach general microbiology, advanced neuroscience, and to participate in the introductory program for biology majors. The individual will be strongly encouraged to take advantage of the opportunity to pursue research during the program year. Salary range: $19,944 to $30,264. An Equal Opportunity Employer.

Tumor Biologist

Applications are invited for a tenure-track position at the assistant professor level in the Department of Anatomy and Neurobiology at the Dana-Farber Cancer Institute and Harvard Medical School, Boston, MA 02115. The individual selected will have a primary appointment in the Department of Pathology and a secondary appointment in the Department of Anatomy and Neurobiology. Salary range is $37,000 to $43,000. Qualifications include the completion of a Ph.D. or M.D. and postdoctoral experience in research with primary interests in the areas of molecular biology, genetics, and cell biology. The successful candidate should be capable of initiating and maintaining a productive laboratory program. Applications should be sent to: Dr. Kenneth D. Vadas, Chairman, Search Committee, Department of Pathology and Neurobiology, Dana-Farber Cancer Institute, Harvard Medical School, 777 Washington Street, Boston, MA 02215. An Equal Opportunity Employer.

Vertebrate Physiologist

Applications are invited for a tenure-track assistant professorship in the Department of Zoology, University of Toronto, beginning 1 July 1988 or thereafter. We are seeking an outstanding and innovative scientist who has recently received his or her PhD. and who has significant experience in applications from more established investigators will be considered. The successful candidate will be expected to establish a vigorous, independent research program, preferably in an environmentally related area of physiology and teach at undergraduate and graduate levels. Salary, currently between $30,000 and $51,000 for an assistant professor, will be commensurate with experience and qualifications. By 15 April 1988, applicants should send a current curriculum vitae, a description of their future research plans, and the names and addresses of at least three referees. If they wish, applicants may arrange with their referees to send letters on their behalf. Send materials to:

Dr. John Machin, Physiologist Search Committee, Department of Zoology, University of Toronto, 25 Harbord Street, Toronto, Ontario M5S 1A1, Canada.

In accordance with University of Toronto equal employment requirements, this advertisement is directed to the first instance to Canadian citizens and landed immigrants. In accordance with the University of Toronto Equity Plan, applications are invited from all qualified women and men.
DEVELOPMENTAL NEUROBIOLOGY

The Research Institute of the Hospital for Sick Children, one of the largest and most active of its kind in the world, is seeking an outstanding scientist with a Ph.D. or M.D. to carry out basic research and developmental neurobiology as related to Sudden Infant Death Syndrome (SIDS).

The appointee will be expected to collaborate with an established group studying SIDS and will also develop his/her own research program. The appointment will be at a rank equivalent to assistant or associate professor.

Send curriculum vitae, a brief description of research interests and the names of 3 references before April 15, 1988 to: Dr. Barry T. Smith, The Research Institute.

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These positions require a strong background in the development of commercial immunoassays and an MS or PhD in biological sciences or chemistry. Experience in automated immunoassay is desirable. Good communication, leadership and problem solving skills are essential. Dept. #292-0318S.

Organic Chemist

The position will work with an interdisciplinary team in the development of novel organic compounds for use in immunoassays. The position requires a PhD in chemistry with a strong background in organic synthesis. Dept. #288-0318S.

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## VETERINARY PATHOLOGIST

The Laboratory of Biochemical and Genetic Toxicology of the Wadsworth Center for Laboratories and Research invites applications for a position of veterinary pathologist. The candidate must possess a D.V.M. degree or equivalent (Ph.D. degree in Veterinary Medicine preferred) and be board certified, or eligible for certification, in the American College of Veterinary Pathologists. The individual is expected to develop a self-selected, independent research program compatible with the broad general interests of the Center, and to conduct service pathology evaluations of a wide range of toxicology and other animal studies. Research collaborations with Wadsworth Center scientists, who are engaged in all aspects of biomedical research, are strongly encouraged. Research time commitment will be approximately 70%, and service time commitment will be 30%. There are also opportunities to teach and recruit graduate students in the recently initiated School of Public Health Sciences, a joint venture of Wadsworth Center and the State University of New York at Albany. The grade level, academic ranking, and salary will be commensurate with professional experience. Send curriculum vitae and three letters of recommendation, to: Dr. Laurence Kaminsky, Wadsworth Center for Laboratories and Research, P.O. Box 509, Albany, NY 12201.

## AWARDS

The Charles A. Dana Foundation announces that the 3rd annual CHARLES A. DANA AWARDS FOR PIONEERING ACHIEVEMENTS IN HEALTH AND HIGHER EDUCATION will be made in November 1988. These awards, which include an honorarium of $50,000, recognize outstanding contributions in health promotion/disease prevention and, separately, to the improvement of undergraduate education. Nomination must be postmarked by 1 June 1988. For further information, contact: Joseph P. Wells, The Charles A. Dana Foundation, 150 East 52nd Street, Box S, New York, NY 10022. Telephone: 212-223-4040.

## GRADUATE PROGRAM

Ph.D. degrees in aquatic ecology, emphasizing the effects of nutrients and light on phytoplankton in North Carolina, are available. Applications from qualified graduate research assistants are available to high-qualified students, at $8,400 to $10,000 per year. For information, contact: Dr. John Burkholder, Department of Botany, Box 7612, North Carolina State University (NCSU), Raleigh, NC 27695. Telephone: 919-737-2726, and Dr. Val Smith, Department of Biology, University of North Carolina (UNC), Chapel Hill, NC 27519. Telephone: 919-962-6930. NCSU and UNC are Affirmative Action/Equal Opportunity Employers.

## WORKSHOP

**WORKSHOP ON BIOLOGICAL DATA FOR PHARMACOLOGICAL MODELING AND RISK ASSESSMENT** 23 to 25 MAY 1988

Sponsored by the ILSI Risk Science Institute and the U.S. Environmental Protection Agency. Fee is Great Smokies Hilton, Asheville, NC. Workshop will provide insights and guidance to risk assessors with respect to the rigor of analysis, focus on making the uncertainties in modeling explicit, and communicate to the public the value of pharmacokinetic models and the kinds of data needed, and identify research/data needs for use of pharmacokinetic in risk assessment. The meeting will be limited to approximately 100 participants.

Details and application forms from: Ms Kate Schall, Eastern Environmental Agency, P.O. Box 254, East Gresford, Smokies Hilton, Asheville, NC 28705. Telephone: 704-648-7810/7809.

## GRADUATE TRAINING

### GRADUATE TRAINING IN NEUROSCIENCE

The Department of Physiology and Biophysics at Hahnemann University has available positions for a Ph.D. degree in physiological and neuroanatomical research in neuropharmacology, neurophysiology, and neuroanatomy. Specific areas include: extrapyramidal actions of antipsychotics (Shearyl S. Smith), basal ganglia function (Jay Schneider), cerebral cortex function, hearing, tumor, circulatory, neuron-simulator development and alcohol (John K. Chapman), and central monoamine systems, epilepsy and drugs of abuse (Barry M. Waterhouse). Application forms available from: N. M. Leibfried, Department of Physiology and Biophysics, M.S. 409, Hahnemann University, 507 Chestnut Street, Philadelphia, PA 19102-1192. Affirmative Action Employer.

### REPRODUCTIVE BIOLOGY TRAINING PROGRAM

**REPRODUCTIVE BIOLOGY TRAINING PROGRAM: Pre- and postdoctoral positions are available at the Oregon Health Sciences University (OHSU) and at the Oregon Primate Center Research Center that are supported by a NICHD training grant beginning 1 July 1988. Students may enroll in the graduate program through the Departments of Physiology or Cell Biology and Anatomy or complete a separate interdisciplinary graduate program in neurobiology, or cell and molecular biology. Eighteen faculty members offer multidisciplinary training in: neuroendocrinology (L. L. Bethes, V. B. Critchet, M. J. Kelly, A. J. Lewy, S. R. Ojeda, O. K. Rosmeckl), biology of the gonads and reproductive tract (B. M. Brenner, I. A. Masker, R. L. Stouffer); gamete biology and fertilization (D. D. Hoskins, D. P. Wolf); pregnancy and fetal development (J. M. Bassou, J. A. Remko); cellular mechanisms of hormone action (M. H. Melsner, C. E. Rosselli); sexual behavior (C. H. Phoenix); and reproductive toxicology (D. L. Hess).**

Applicants must meet NRSA, U.S. citizenship and residency requirements. Predoctoral candidates can receive information on the graduate program from the address below. Postdoctoral candidates should send a letter of interest, curriculum vitae, and names of three references to: John A. Resko, Ph.D., Chairman, Department of Physiology, Oregon Health Sciences University, Portland, OR 97201. OHSU is an Equal Opportunity Employer.

### FELLOWSHIPS

**FELLOWSHIPS AT HARVARD SCHOOL OF PUBLIC HEALTH INTERDISCIPLINARY PROGRAMS IN HEALTH**

**POSTDOCTORAL FELLOWSHIPS**

The Program in Environmental Health and Public Policy invites applications from promising graduates of advanced degree programs in the natural or social sciences.

The program focuses on the scientific and analytical foundations for environmental decisions. In addition to conducting individual research, fellows are encouraged to collaborate with each other and faculty members on the problems and issues of the program. A position might or might not consider, for example, the effect of scientific uncertainties on environmental decisions.

Fellows will begin work on 1 year. Applications are due before 1 April 1988. For information, write to: Professor Donald F. Hornig, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115. Telephone: 617-732-1258

## COURSE

### TOXICOLOGY UPDATE 1988 CURRENT CONCEPTS IN REPRODUCTIVE TOXICOLGY

**6 to 8 June 1988**

This course will examine the principles necessary to understand how chemicals interact with the reproductive system and affect the outcome of pregnancies. The lectures will provide a general overview of toxicologic principles and of male and female reproductive physiology. Directors: M. A. Theodore and T. W. Kensler. For further information contact: Dr. Jacqueline Corn, The Johns Hopkins School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, MD 21205. Telephone: 301-959-2609.

### PROGRAM

**CAREER CHANGE OPPORTUNITY**

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain a doctor of optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Ph.D.-O.D. Program Director, Admissions Office, The New England College of Optometry, Room 14, 424 Beacon Street, Boston, MA 02115.

### FELLOWSHIPS

**POSTDOCTORAL FELLOWSHIP IN CLINICAL LABORATORY IMMUNOLOGY**

Applications are invited for a 2-year fellowship in clinical laboratory immunology at North Carolina Memorial Hospital (NCMH) and the University of North Carolina (UNC). Fellowship provides residency-type training in laboratory immunology through laboratory experience, conferences, and research. Send curriculum vitae and three letters of reference before 20 April 1988 to: Dr. John D. Polk, M.D., Director, Clinical Microbiology-Immunology Laboratories, Room 1035 PST, North Carolina Memorial Hospital, Chapel Hill, NC 27514. The UNC/NCMH is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL FELLOWSHIPS** (two) at The University of Chicago to conduct research in (a) evolutionary biology and (b) genetics. Both fellows will also provide half-time assistance in the design, coordination and teaching of introductory biology labs. Twelve-month position beginning 1 September 1988, renewable for 1 year. Salary: $18,000. Submit curriculum vitae, three letters of reference, and a statement which discusses your teaching interests and identifies a University of Chicago faculty sponsor for your proposed research. Applications should be sent before 11 April 1988 to: Postdoctoral Search Committee, Dr. Rosamond Potter, Biological Sciences Collegiate Division, 940 East 57 Street, Chicago, IL 60637. Equal Opportunity/Affirmative Action Employer.

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