Personnel Placement

SCIENCe publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing, no advertisements. Acceptance for publication is at least 2 weeks after date of issue in which ad appears. Also, persons advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of sex, religion, age, color, national origin, handicap, or sexual preference.

LINE CLASSIFIED ADVERTISING DEADLINES: Thursday, 10 weeks prior to issue date (mailed on issue date).

POSITIONS WANTED: 400 per word, plus $4 for use of box number, per week. $10 minimum per week. Prepayment required. This rate is available only to individuals seeking jobs.

LINE CLASSIFIED ADVERTISEMENTS, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth: $30.00 per line. $30.00 minimum per week. (minimum charge covers one inch on a single column; one inch equals 10 lines of 52 characters and spaces per line). No charge for use of box number. No agency commissions for ads less than 4 inches. No cash discounts. Prepayment required for all foreign ads. Purchase orders and/or cover letter including billing address required for all other advertising.

To ESTIMATE ad cost:
Structure ad copy on a separate page, on lines of 52 characters and spaces. Include any desired heading. Each line of heading, and/or extra line spaces, and all paragraphs lines (including captions) and other information are counted as full lines. Ad titles located within the text and displayed in book (or text) and are only 42 characters per line. In ESTIMATING the cost, multiply total lines x $3.00 = approximate cost of ad. (This is an approximate cost only. Allow for variation between estimated lines and actual typewriter lines and the resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.)

CANCELLATION POLICY:
New ads are accepted made after Thursday, TWO weeks prior to issue date incur a 10% production charge. Final deadline for cancellations is 12 p.m. Tuesday, ONE week prior to issue date. Cancellations must be in writing.

Send copy for all Positions Wanted ads and Line Classified ads less than 1/4 page in size (59 lines) to:

SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-328-6555

Send copy for Fractional Display ads. 1/4 page and larger, and for display ads to:
Scherago Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-730-1050

Bind ad replies should be addressed as follows:
Box (give name)

SCIENCe
1333 H Street, NW
Washington, DC 20005

POSITIONS WANTED

Mental Disorder and Legal Control. Philip Bean, Cambridge University Press, New York, 1986, x, 207 pp., illus. $49.50.


The Department of Animal and Veterinary Sciences, University of Maine, Orono, seeks applicants for an ASSISTANT PROFESSOR position in the area of animal physiology. This is a full-time 9-month appointment—60% research/40% teaching. Applicant should have a Ph.D. in dairy/animal science or closely related field.

Postdoctorate experience and previous demonstrated success in research and teaching preferred. Candidate will be expected to develop a research area of interest in growth regulation, lactation physiology, or disease resistance. Research will need to complement ongoing depart- mental research in nutrition or reproductive physiology. Willingness to participate in interdepartmental research is essential. A strong research program will require competition for outside funding. Teaching responsibilities include both technical and graduate courses in general and reproductive physiology, and livestock production.

Send a complete resume, transcripts, and three letters of reference to: Dr. D. D. Stimpson, Chairman, De- partment of Animal and Veterinary Sciences, University of Maine, 128 Hinckley Hall, Orono, ME 04469. Review of applications will begin 15 July 1987.
Biology

A vacancy exists for a PROFESSOR and HEAD OF DEPARTMENT

in the Faculty of Science, University of Bophuthatswana in Southern Africa. A doctorate and relevant university experience in teaching, administration and research are basic requirements. Experience and interest in teacher training and broad biological interests with a bias towards botanical biology would be an advantage.

In addition to a competitive salary the University offers a thirteen cheque, membership of the pension and medical aid schemes, subsidised housing, removal expenses, university education subsidies and generous leave benefits. Tenured staff are eligible for career development and long leave benefits. The appointment may be on contract with gratuity or pensionable terms.

Appointment will be from 1 January 1988.

Applications to be submitted by July 31, 1987 should include a detailed curriculum vitae, certified copies of educational certificates, and the names and full addresses of three professional referees, and should be sent by airmail to:

The Assistant Registrar (Staffing)
University of Bophuthatswana
Private Bag X2046
Mafikeng
Republic of Bophuthatswana
Southern Africa

The University of Bophuthatswana is an equal opportunity institution.

Bradford Chair

an endowed chair in any area of the natural sciences and mathematics

one semester or one year appointment in 1988-89

The Bradford Chair has been established to stimulate increased interest in, and to spur the growth of, science at The University of Charleston. The University is located in one of the major chemical/industrial centers in the nation and is home for the National Institute for Chemical Studies. University scientists with contacts with these industries or with the research institutes in the region (including the gas or oil industries) are especially encouraged to apply.

Duties include some teaching at the undergraduate or master's level, research that involves students, public lectures to stimulate interest and enthusiasm at the University and in the community, and daily interaction with faculty in all disciplines on matters of common interest. Funding will also be available for the acquisition of equipment which can be used subsequently.

Send curriculum vitae and description of current research and funding to:

Donald T. Hartman
Senior Vice President for Academic Affairs
The University of Charleston
2300 MacCorkle Avenue, SE
Charleston, WV 25304-1099

aa/eoe

Experimental Physicist/ Astrophysicist

Tucson, Arizona

The Advanced Development Program of the National Optical Astronomy Observatories has a vacancy for an Experimental Physicist or Astrophysicist with an extensive and broad background in materials science and in astronomical optics. The candidate is expected to lead our inhouse R&D effort in new telescope technology and to interact closely with related efforts in the U.S. university community and abroad. Applicants must have a Ph.D. in Physics or Astronomy and should have a demonstrated record of analysis and experimentation with complex opto-mechanical systems. This is a senior position whose rank and pay will be commensurate with the qualifications of the candidate. For further information you may contact J.M. Beckers (602-325-9226). Please submit a curriculum vitae, bibliography and description of experience, and the names of three references before August 15, 1987 to:

Judy Ruffino, Personnel Manager
National Optical Astronomy Observatory
P.O. Box 26732
Tucson, AZ 85726

An EEO/AA Employer

Toxicologist

Environmental Toxicology/ Quality Assurance

Allied-Signal Inc., a Fortune 25 corporation, has an opening in the Corporate Toxicology Department for an individual with experience in Environmental Toxicology and Quality Assurance. You should have a Bachelor's or Master's degree in Toxicology or related field and at least three years of industrial experience. Preference will be given to candidates who have laboratory experience in aquatic toxicity testing and quality assurance programs.

Responsibilities will include effectively working with and monitoring contract research and testing laboratories to design and perform aquatic toxicity and biodegradation studies. Assuring compliance with Good Laboratory Practices for both environmental and mammalian toxicology test programs is also required. An integral function of this position is the ability to work effectively in a collaborative setting. Demonstrated skills in scientific writing and organization of data are required.

Position is located at our Corporate Headquarters in Morristown, New Jersey. You will enjoy an excellent starting salary, comprehensive benefits and opportunities for professional advancement. Relocation assistance will be provided. For prompt consideration send your resume and salary history to: Mrs. E.V. Lord, Employment Supervisor, Corporate Technology, Allied-Signal Inc., P.O. Box 1021R, Dept. AQ, Morristown, New Jersey 07960.

An Equal Opportunity Employer
ASSISTANT PROFESSOR, MICROBIOLOGY/GIST. Southeastern College of Osteopathic Medicine invites applications for its position in molecular virology. Successful candidate should have a strong commitment to teaching. Will be expected to help teach courses in medical microbiology and lecture in virology laboratories. Submit letter and names of three references to: Dr. Harold E. Laubach, Assistant Dean, Basic Science, 1750 NE 168th Street, North Miami Beach, FL 33162. Equal Opportunity Employer.

ASSISTANT PROFESSOR, TOXICOLOGY. Tenure-track position in the Department of Pharmacology and Toxicology, Ph.D. in toxicology, pharmacology, or a closely related field and postdoctoral experience required. Participation in undergraduate and graduate level teaching and development of externally funded research program expected. Research interest in renal, hepatic, reproductive, or developmental toxicology will be given preference, although well-qualified applicants in other areas are also invited to apply. Applications will be reviewed beginning 1 August 1987 and thereafter until the position is filled. Submit statement of research interest, resume, and names of three references to: Dr. Zahir A. Shahid, Search Committee Chair, Assistant Professor, Toxicology (106009) Position, The University of Rhode Island, P.O. Box G, Kingston, RI 02881. URI is an Affirmative Action and Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOCHEMISTRY. Twelve-month tenure-track position. To teach biochemistry at the Indiana University School of Medicine. Applicant must possess an earned doctoral degree in biochemistry with at least two years of postdoctoral experience. The successful candidate is expected to develop independent/collaborative research and graduate education programs. Academic duties include sharing laboratory and laboratory responsibility in the freshman Medical Biochemistry Program. Submit curriculum vitae and three letters of recommendation to: Dr. Walter B. Balwes, Search Committee Chair, Assistant Professor of Biochemistry, Terre Haute Center for Medical Education, Indiana University School of Medicine, 135 Holmsted Hall, Terre Haute, IN 47809. Indiana University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF LIPID/MEMBRANE BIOCHEMISTRY. Available immediately. The University of Minnesota seeks applicants for a tenure-track position at the assistant professor level in the Department of Biochemistry. Duties will include research that will develop a vigorous research program in lipid/membrane biochemistry including ion and molecule transport, membrane and lipid protein interactions, etc. are sought. The University is solely a graduate institution, and M.S. and Ph.D. degrees are offered in chemistry. Applicants must have a curriculum vitae, a letter discussing current and future research plans, and three letters of reference to: Dr. Henry Zeidan, Department of Chemistry, University of Minnesota, Minneapolis, MN 55414 by 30 July 1987. University of Minnesota is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, MOLECULAR PATHOGENESIS. The Department of Immunology and Medical Microbiology at the University of Florida College of Medicine invites applications for a tenure-track position for up to two appointments from individuals using modern molecular technology to address questions related to the pathogenesis of infectious agents. Applicants should hold the Ph.D., M.D., or equivalent degree and have postdoctoral training. Tentative starting date, 1 January 1988, or thereafter. The Department of Immunology and Medical Microbiology has begun a second phase of expansion which will reach maturity when new research facilities under construction become available in the near future. Applicants should submit curriculum vitae, research plans, the names of three references to: Dr. William W. Hauswirth, Chairman, Search Committee, Immunology/Medical Microbiology, Box J-266, JHIMHC, College of Medicine, University of Florida, Gainesville, FL 32610. The recruiting deadline is 1 September 1987. Equal Employment Opportunity/Affirmative Action Employer.

UNIVERSITY OF FLORIDA

ASSISTANT PROFESSOR, NEUROSCIENCE FACULTY/RESEARCH POSITION. The Department of Immunology and Medical Microbiology at the University of Florida College of Medicine invites applications for a tenure-track position for up to two appointments from individuals using modern molecular technology to address questions related to molecular aspects of the immune system. Applicants should hold the Ph.D., M.D., or equivalent degree and have postdoctoral training. Tentative starting date, 1 January 1988, or thereafter. The Department of Immunology and Medical Microbiology has begun a second phase of expansion which will reach maturity when new research facilities under construction become available in the near future. Applicants should submit curriculum vitae, research plans, and the names of three references to: Dr. William W. Hauswirth, Chairman, Search Committee, Immunology/Medical Microbiology, Box J-266, JHIMHC, College of Medicine, University of Florida, Gainesville, FL 32610. The recruiting deadline is 1 September 1987. Equal Employment Opportunity/Affirmative Action Employer.

UNIVERSITY OF FLORIDA

CHAIRPERSON, DEPARTMENT OF NEURO-ONCOLOGY—The University of Texas System Cancer Center at UT M.D. Anderson Cancer Center and Tumor Institute is recruiting a Chairperson for its Department of Neuro-Oncology. This is a prestigious position with 12 faculty members and broad research programs in neurooncology. Candidate must have established reputation as a clinician and investigator with interests in research related to brain tumors. Clinical expertise and administra- tion experience in academic setting. Send curriculum vitae to: Gerald P. Bodey, M.D., Chair- man, Neuro-Oncology Search Committee, Division of Medical Oncology, Box 47, Houston, TX 77030. An Affirmative Action/Equal Opportunity Employer.

CHAIRPERSON, DEPARTMENT OF EPIDEMIOLOGY AND BIOSTATISTICS. Case Western Reserve University School of Medicine Applications and nominations are invited for the Chair of the Department of Epidemiology and Biostatistics. Candidates should be distinguished researchers committed to academic investigations. Funding of the Department is expected to be available. Nominations and applications are invited to be sent to: Dr. Herbert S. Rosenkranz Chairman, Search Committee Department of Environmental Health Sciences Case Western Reserve University School of Medicine 10900 Euclid Avenue Cleveland, OH 44106

3M BERT CROSS CHAIR IN NEUROSCIENCES/VISION RESEARCH. The University of Minnesota invites nominations and applications for the 3M BERT Cross Chair. We are looking for a distinguished individual in neuroscience with a major interest in vision research. It is intended that the recipient of the Chair will hold a full-time tenured faculty appointment at the rank of Professor in the basic science or clinical Department of Neuroscience in the Medical School and contribute to the Neurosci- ences/Vision Research Program of the University. We seek candidates with a Ph.D., M.D., or both degrees. For further information and conditions of appointment, please contact: Dr. Paul E. Nelson, 3M BERT Chair, University of Minnesota, 102 Basic Science Building, Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Employer, Educator and Employer and will not discriminate in employment, recruitment, and encourages applications from women and minorities.

UNIVERSITY OF WESTERN AUSTRALIA

CHAIR IN BIOCHEMISTRY Applications are invited for appointment to the Chair in Biochemistry at the University of Western Australia as a result of the retirement of Professor L. J. Oliver. Further information (including the full advertisement and applications and conditions of appointment) should be obtained from: Professor J. A. Stirling, Assistant Professor, Mr. Brian Galbraith or from the Head of the Department of Biochemistry, Associate Professor Peter Hartmann, University of Western Australia, Nedlands, Western Australia 6009. Applications close 28 August 1987. Equal Employment Opportunity/Women are encouraged to apply.

Washington State University invites applications for the position of CHAIR, DEPARTMENT OF VETERINARY MEDICINE AND PATHOLOGY. This is a tenured position. Qualifications required are a Doctor of Veterinary Medicine degree (or equivalent), a Ph.D. in one of the disciplines included in the Department (immunology, microbiology, parasitology, or pathology), and administrative experience. The Chair is expected to provide academic and administrative leadership for the instructional, research, and service programs of the Department. Candidates should apply before 15 September 1987. Applicants should send curriculum vitae, evidence of personal qualifications and goals and demonstrate the Department, and the names of three references to: Dr. Travis C. Buehler, Chairman, Veterinary Medicine, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA 99164–7021.

Washington State University is an Equal Opportunity/Affirmative Action Employer. Members of ethnic minorities, women, Vietnam-era or disabled veterans, persons of disability, and individuals between the ages of 40 and 70 are encouraged to apply.

Chairperson, Department of Pharmacology and Toxicology

DARTMOUTH MEDICAL SCHOOL Applications or nominations are invited for the James C. Chilcott Distinguished Professorship and Chair of the Department of Pharmacology and Toxicology at Dartmouth Medical School. An excellent opportunity exists for growth of this department with positions to be filled and opportunities for interaction with developing programs in neuroscience, molecular genetics, endocrinology, immunology, and cancer. Candidates should have proven leadership ability and recognized scientific recognition, including significant contributions in pharmacology, toxicology, or a closely allied field. Responsibilities include administration of profes- sional and support staff, and program planning and development within the department. Active support of interdisciplinary programs is also expected.

Each application should be accompanied by curricu- lum vitae and the names of three references. Applications and nominations should be addressed to: Dr. William J. Culp, Department of Biochemistry, Dartmouth Med- ical School, Hanover, NH 03755. Dartmouth Med- ical School is an Equal Opportunity/Affirmative Action Employer.
NATIONAL INSTITUTE ON AGING
National Institutes of Health
Public Health Service

The Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, invites applications for a Fellowship position to study the pharmacokinetics and cerebral metabolism of central nervous system agents. Research will involve: (1) methods development for the quantitation of drugs and metabolites in plasma and tissue, (2) relating pharmacokinetic data to brain imaging results, and (3) molecular modification of drugs to enhance their brain penetration. The position is that of a Fellow with a salary range of $17,000 to $47,788 per annum commensurate with qualifications, and is located in Bethesda, Maryland.

Experience in high performance liquid chromatography, gas chromatography and mass spectrometry is desirable.

Applications are invited from individuals having a Ph.D. in Pharmacology or a Chemistry discipline. Interested candidates should submit their Curriculum Vitae to Stanley I. Rapport, M.D., Chief, Laboratory of Neurosciences, National Institute on Aging, Building 10, Room 6C 103, 9000 Rockville Pike, National Institutes of Health, Bethesda, Maryland, 20892, USA.

An Equal Opportunity Employer

PHARMACOLOGIST

Ph.D. level with 1-3 years industrial or post-doctoral experience in Anti-Inflammation/Immunomodulation drug discovery research in Autoimmune Diseases. High degree of interest essential, strong knowledge of relevant scientific literature necessary, and familiarity with computer usage desirable.

BIOFOR, INC. is located in Northwestern Pennsylvania near the beautiful Pocono Mountains. We offer a competitive salary with opportunity for substantial growth.

Send resume to:

BIOFOR, INC.
P.O. Box 577
Waverly, PA 18471
Attn: Stewart Wong, Ph.D.
Director, Autoimmune Disease Research

Biologist

The Agricultural Research Division of American Cyanamid Company wishes to recruit a Biologist in the Biochemistry and Physiology Group of the Department of Animal Industry Discovery and Biotechnology.

This individual will join a team concerned with identifying and establishing immunological methods of modifying hormone activity towards enhancing animal production. The successful candidate will be capable of developing bioassay and immunoassay techniques for hormone and antibody measurement and have the ability to design production experiments in commercially relevant species.

Applications are sought from candidates with a B.S./M.S. in endocrinology/physiology with experience in one or more of the areas outlined above. A knowledge of the hormonal control of animal production would be an advantage.

American Cyanamid offers a competitive compensation and benefits package. For prompt and confidential consideration, please forward your resume and salary history to the Employment Office.

American Cyanamid Company
Agricultural Research Division
P.O. Box 400
Princeton, New Jersey 08540
An Equal Opportunity Employer M/F/H

Announcing a Conference on
Susceptibility to Inhaled Pollutants

SEPTEMBER 29–OCTOBER 1, 1987
The Hilton Hotel, Williamsburg, Virginia

The Clean Air Act requires that susceptible individuals be protected as well as the general population. To explore some of the implications of this problem, this conference will focus on the responsiveness of the respiratory system to inhaled pollutants. Participants will include leading scientists from various fields: inhalation toxicology, biochemistry, engineering, pulmonary medicine, epidemiology and statistics. Discussion topics include:

- Basic Determinants of Susceptibility
- Demographics of Susceptible Populations
- Factors Affecting Pulmonary Dosimetry
- Asthma and Non-Asthmatic Models of Susceptibility
- Major Areas of Uncertainty and Critical Research Needs

The conference will be co-chaired by Dr. Mark J. Utell, Professor of Medicine and Toxicology and Co-Director, Pulmonary and Critical Care Unit, The University of Rochester School of Medicine and Dr. Robert Frank, Professor of Environmental Health Sciences and Deputy Director of the Environmental Health Sciences Center, School of Hygiene and Public Health, The Johns Hopkins University.

It is being sponsored by the American Petroleum Institute, American Lung Association, American Society for Testing and Materials, Environmental Protection Agency, Electric Power Research Institute, Health Effects Institute, and The Natural Resources Defense Council.

Registration Fee for the Workshop is $150
Lodging and Meals will be extra
Participation is limited and by Pre-Registration only

For further information, contact:

Mrs. Madeleine Sallouk
Health and Environmental Sciences Department
American Petroleum Institute
1220 L Street, N.W.
Washington, D.C. 20005
202-682-8332
POSITIONS OPEN
DIRECTOR—BOTANIC GARDEN
SANTA BARBARA, CALIFORNIA
Sixty-five acres plus herbarium, requires now an excep-
tional individual to fill the 2nd position. Responsibilities:
Lead, motivate, manage, and direct 35 staff to plan and
implement programs of display, education, and research;
establish interinstitutional links, undertake fund-raising;
act as spokesman; be technical advisor to the Board.
Qualifications: Scientist with leadership skills,
to manage annual budget approaching $1 million, writ-
ten and spoken communication skills; fund-raising experi-
ence and ability to manage research. Salary: competitive/comp-
menurate with experience; health and retirement plans.
Substance to: Mr. Philip L. Schaefer, President, Santa Barbara Botanic Garden, c/o P.O.
Box 50437, Santa Barbara, CA 93105. Job description on
request. Appointment date soonest but to suit suc-
cessful applicant.

DIRECTOR: COMPUTER CORE/IMAGE
ANALYSIS FACILITY
Internationally recognized brain research laboratory at a
major medical center seeks a scientist with a strong
background in quantitative image analysis and
computer graphics. This individual should have experi-
ence with interactive data visualization and a desire to work
in a research environment. While an advanced degree (M.S.
or Ph.D.) in computer science is desirable, a suitable
candidate might otherwise be a neuroscientist whose
interests include computer programming. Scientific writ-
 ing and management skills are required as this individual
will be able to coordinate and plan the future direction of
the research activities. Applicants are encouraged to
submit curriculum vitae, a statement of research interests,
and the names, addresses, and telephone numbers of
three references to: Mr. Peter R. LaRocca, Director.

ENTOMOLOGY SCIENTIFIC ASSISTANT
The Department of Entomology of the American
Museum of Natural History is seeking a scientific assis-
ant to assist the curatorial staff in curating the collection
of Hymenoptera including incorporation of new spec-
imens into the collection, preparation of curatorial ar-
rangements, loan preparation, research projects, dissec-
tions, scientific illustrations, field work, library research,
and preparation of Odonata specimens. This position
must have a baccalaureate degree in the biological sci-
ences including studies in entomological biology and
preferably some coursework in insect systematics. Skilled
in scientific illustration, ability to do detailed and meticu-
lous work and knowledge of PCs and word processing.
Salary $18,604 per annum. Excellent benefits. For
consideration, please send a resume to Mr. Lee Vilkovskiy, Per-
sonnel Department (S), American Museum of Natu-
ral History, Central Park West at 79th Street, New
York, NY 10024. An Equal Opportunity Employer.

ENVIRONMENTAL RESEARCH SCIENTIST
for central Ohio firm to conduct research and develop-
ment in areas of water chlorination, adsorption of organ-
ic pollutants onto activated carbon, fate of organic
pollutants in environment, and catalytic interactions
of organic chemicals with solid surfaces such as activated
charcoal, sediments, and soils; involves experimental
research and mathematical modeling, statistical analy-
ysis, and writing technical reports and articles. Requires
Ph.D. in environmental science with ten graduate-level
semester hours in water and waste-water engineering,
plus 2 years of experience as environmental analyst.
Combination of technical and employment experience
must have included 3 years of hands-on experience with
gas chromatography and gas chromatography/mass
spectroscopy, 3 years of computer modeling experience
in areas of mass transfer and chemical kinetics, and 1 year
performing statistical data analysis using computer stati-
tical packages. Must also have six water chemistry/treat-
ment publications in peer-reviewed journals. Forty hours
per week, $3075 per month. Qualified applicants reply
immediately with résumé to: R. Lecher, IOB
302/771, Ohio and Employment Services P.O. Box 1618, Columbus, OH 43216.

FACULTY OPENINGS
BIOTECHNOLOGY
Faculty positions are available at the full professor,
associate professor, and assistant professor levels in The
Center for Biotechnology at Baylor College of Medi-
cine. This Center is located in a new Baylor building in
The Research Forest of The Woodlands, a 25,000-acre
educational and research facility, which is one of the
largest university-owned research facilities in the world.
The Center consists of the following divisions: (i) Hybrid-
oma Technology, (ii) Recombinant DNA Technology,
(iii) Protein Engineering, (iv) Chemical Biology, (v)
Vision Research, and (vi) Cellular and Molecular Neuro-
biology. Applicants should have research backgrounds in
one of the areas. Exceptional candidates may also be
considered for posts at Division Heads. Although
academic excellence is the determining factor in the
selection process, experience and interest in biotechno-
logical applications are also desirable. Please send résu-
mé, names of several references, and a brief description of
research experience and future goals to:
Dr. Dominic Man-Kei Lam, Director
The Center For Biotechnology
Baylor College of Medicine
4000 Research Forest Drive
The Woodlands, TX 77381
An Equal Opportunity/Affirmative Action Employer.

GENE EXPRESSION
The Laboratory of Molecular Endocrinology at the
Massachusetts General Hospital seeks a POSTDO-
CTORAL FELLOW OR RESEARCH ASSOCIATE
with experience in the regulation of polypeptide hormone
genes. Experience in recombinant DNA techniques is
preferable, but not essential. The laboratory is focused on
studies of the cis and trans factors that mediate the specif-
icy of polypeptide hormone genes. A microchem-
ical facility for protein sequencing-synthesis and DNA
library synthesis facilities will also be available to
researcher with experience. Send curriculum vitae and two letters of
recommendation to: J. Habener, Chief, Laboratory of
Molecular Endocrinology, Massachusetts General Hospital,
Bost on, MA 02114.

POSITIONS OPEN
FIBI LABORATORY/
MOLECULAR BIOLOGIST
The Forensic Science Research Unit of the FBI Labo-
atory invites applications for a master's or postdoctoral
fellow level individual to assist with research to develop
or apply molecular biology methods for the analysis of
blood, fluids and tissues. The candidate should have experience
in molecular biology with a strong background in DNA
isolation and manipulation. Please send résumé and names of three references by
1 August 1987, to: MA Michael G. Noll, Research Unit Chief, Forensic Science Reserch
and Training Center, FBI Academy, Quantico, VA 22135. Starting salary level is $22,400 to $35,300, commensurate with experience. The FBI u is an Equal Opportunity Employer. U.S. citizenship required.

ESTUARINE SCIENTIST
The Academy of Natural Sciences' Benedect Estuarine
Research Laboratory has an opening for an estuarine
ecology scientist. The position is fully funded for 2 years, after which the
successful applicant will be considered for permanent employment.
The successful applicant will be expected to: (i) Develop and manage
research activities, (ii) Select system data for purchase, supervise (and hire) technical staff and interact with other scientists.
This is an academic position at the assistant professor or associate professor level.
Send résumé to: D. J. Reis, Laboratory of Neurobi-
ology, Cornell University Medical College, 411 East

GEOCHEMICAL MODELER—
DATA MANAGER
Northrop Services, Inc. is seeking an M.S. level (pref-
erably) candidate with a salary of $73,400 to partic-
icipate in the Watershed Research Group. The group's
research focuses on understanding and modeling the
effects of episodic events, primarily involving acidic
precipitation, on aquatic ecosystems. Applicants should
have experience using numerical models involving geo-
chemical or transport processes, must be proficient in
FORTRAN, have strong quantitative skills, have good
written and verbal communication skills, and be willing
to work in a large, multidisciplinary group. Detailed
position description available on résumé and the names, addresses, and telephone numbers of
three references to: Susan Carey, Human Resources,
Northrop Services, Inc., 1600 SW Western Boule-
deville, Corvallis, OR 97333. Northrop Services, Inc., is an Equal
Opportunity Employer.

NATIONAL SCIENCE FOUNDATION (NSF)
DIVISION OF MATERIALS RESEARCH
NSF's Division of Materials Research is seeking quali-
cified candidates for the executive position of Head,
Condensed Matter Sciences Section (CMS). The CMS
section consists of four program areas: solid-state chemistry,
low-temperature physics, and condensed matter theory. This Senior Executive Service
position is currently a term appointment with an annual salary of $73,400, plus a
living allowance of $6,000. Nominations are invited for this position to ES-4
ranging from $46,000 to $73,400, with $52,000, $57,300, or $63,600 ($73,400),
be filled on a permanent or a 1- to 3-year limited term (rotational)
position. In these positions, candidates will be expected to manage and
fundraise for a section budget of $900,000-$12 million and manage
limits of $6 million. NSF is interested in individuals who have

NEUROSCIENCE NEUROSCIENCER
The Laboratory of Immunology, of the National
Institute of Allergy and Infectious Diseases, National
Institute of Health (NIAID/NIH), Public Health Ser-
vice, intends to make an appointment at the independent
level. Individuals with interests and training in
membrane biochemistry or cell biology are particularly
sought but all qualified candidates are encouraged to
apply. The successful candidate will be expected to
conduct a program of independent research and will be
appointed at a level appropriate to scientific qualifica-
tions. Contact: Dr. William Paul, Building 10, Room
1N311, NIAID/NIH, 9000 Rockville Pike, Bethes-
da, MD 20892; telephone: 301-496-5046. U.S. citi-
zenship required. An Equal Opportunity Employer.

NEUROSCIENCE IMAGE ANALYSIS
Immediate position for recent doctorate in neuroscience or
computing science, with specialization in image analysis.
Candidates should be Canadian citizens or permanent
residents. Projects include three-dimensional reconstruc-
tion of neurons, autoradiographs, and cerebral blood
vessels. We offer an NSERC Industrial Research Fellow-
ship ($50,000 plus $10,000 in salary support) and an
adjunct appointment at Brock University. Contact:
Dr. Peter Ramí, Imaging Research Inc., Brock
University, St. Catharines, Ontario, Canada L2S 3A1.
Telephone: 416-646-1033.
**Senior Research Scientists**

THE LILLY RESEARCH LABORATORIES, a Division of Eli Lilly and Company, is seeking applicants for positions in our division of Molecular and Cell Biology. The laboratories are located in a new state-of-the-art research facility at the Lilly Corporate Center.

**Molecular Immunology (B1)** This position requires a Ph.D. preferably with 2-4 years post-doctoral experience. The scientist should have experience cloning mammalian genes and be familiar with techniques such as site directed mutagenesis. In addition, there should be evidence of a strong interest in immunology and the genetics of molecules involved in the immune response including cytokines and antibodies.

**Transgenic Animal Research (B2)** We are seeking a doctoral level scientist skilled in the techniques of microinjection, embryo transplantation, and mammalian cell culture. Post doctoral experience with recombinant DNA techniques such as plasmid construction, hybridization, and transformation is desirable. The scientist will join an interdisciplinary team developing transgenic animals as models of human diseases.

Qualified candidates should send their curriculum vitae to:

John W. Crooks, Manager
College Relations (SBR)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

*Equal Opportunity Employer*
NEUROBEHAVIORAL SCIENCE POSTDOCTORAL POSITIONS

Applications are invited for an interdisciplinary neuro-ophthalmological research training program. The program objectives are to facilitate the development of investigators who are familiar with the integrated concepts of neuroophthalmology as well as their individual anatomical, biochemical, physiological, or clinical research specialties. This three-year major, rapidly developing research program that relates to the nervous system is based primarily on recent technological developments have been incorporated into the program, that is, molecular genetics, neuropharmacology, and in vivo metabolic imaging. In addition to the intensive research experience in one or more laboratory disciplines, the conceptual framework presented as it relates to an understanding of the normal and maladaptive development of human neuroophthalmology and behavior is emphasized in a series of seminars and symposia. For further information, contact:

Dr. Everett H. Ellinwood, Jr.,
Neuroscience Research Training Program
Duke University Medical Center
P.O. Box 3870
Durham, NC 27710
Affirmative Action/Equal Opportunity Employer.

PEPTIDE CHEMIST

SRK International, an R&D firm on the San Francisco Peninsula, is currently looking for a Ph.D. chemist with 2 to 5 years of postdoctoral experience in solution and solid-phase peptide syntheses. The successful candidate will have experience in the development of peptides that are fragments of proteins from toxic and pathogenic organisms as synthetic vaccines, an understanding of the structure-function relationships of peptides, the ability to write protected, biologically active peptides, and a solid publication record in peptide synthesis.

Submit curriculum vitae and a list of publications to:


University of Pennsylvania, Department of Medicine:
The Cardiovascular-Pulmonary Division at the University of Pennsylvania is seeking to fill an academic position to study the immunologic and biochemical functions of lung macrophages. A recent Ph.D. OR M.D. with experience in cell biology or biochemistry is preferred. Available 1 July 1987. Salary commensurate with experience. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer. Applicants should send their curriculum vitae to: Ronald P. Daniele, M.D., Room 807 East Gates Building, Hospital of The University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104-4285.

POSTDOCTORAL FELLOW, Division of Dermatology, Department of Dermatology, University of Maryland Hospital, Baltimore, MD 21201.

POSTDOCTORAL FELLOW in IMMUNOLOGICAL BIOCHEMISTRY:

University of Utah, Salt Lake City.

Candidates must have a Ph.D. in biochemistry or a closely related discipline. The position is designed to provide training in the molecular and cellular mechanisms of the immune response. Potential projects include: (i) the study of in vivo host defenses using an animal model of pathogen infection, and (ii) the study of in vitro enzyme activity and function using a variety of mutant cell lines and recombinant DNA molecules. Completion of a research fellowship is required, and applicants must have a record of outstanding research achievement.

Salary: $25,000, plus fringe benefits. Position is available immediately. Please submit a letter of application, including a bibliography of recent publications, and names and addresses of three references to: Dr. John T. Schmidt, Department of Dermatology, University of Utah, Salt Lake City, Utah 84132. The University of Utah is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN DEVELOPMENTAL NEUROBIOLOGY

Position available immediately at the University of Pennsylvania to study the development of retinotectal projection in goldfish. Techniques include immunohistochemistry, gel electrophoresis, and viral and radioactive labeling. Send vitae and names of recommendations to: Dr. G. J. Bleich, Department of Neurology, University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104-4285.

POSTDOCTORAL FELLOWSHIP

University of California, San Francisco.

Candidates with research experience in one or more of the above techniques required. Send curriculum vitae and names of three references to: Dr. John T. Schmidt, Department of Dermatology, University of Utah, Salt Lake City, Utah 84132. The University of Utah is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP in CANCER IMMUNOLOGY

University of California, San Francisco.

Candidates with research experience in one or more of the above techniques required. Send curriculum vitae and names of three references to: Dr. John T. Schmidt, Department of Dermatology, University of Utah, Salt Lake City, Utah 84132. The University of Utah is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP in RNA POLYMERASE RESEARCH

University of California, San Francisco.

Candidates with research experience in one or more of the above techniques required. Send curriculum vitae and names of three references to: Dr. John T. Schmidt, Department of Dermatology, University of Utah, Salt Lake City, Utah 84132. The University of Utah is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP in IMMUNOBIOLOGY

University of California, San Francisco.

Candidates with research experience in one or more of the above techniques required. Send curriculum vitae and names of three references to: Dr. John T. Schmidt, Department of Dermatology, University of Utah, Salt Lake City, Utah 84132. The University of Utah is an Equal Opportunity/Affirmative Action Employer.
Carbohydrate Biochemists
Macromolecular Sciences

The Macromolecular Sciences Department of Smith Kline & French Laboratories, located in suburban Philadelphia, Pennsylvania, is seeking two Associate Senior Investigators to conduct research in the structure-function relationships of biological macromolecules, with specific emphasis on determining the role of carbohydrate moieties in biomolecular interactions.

Applicants should have a Ph.D. in Organic/Bio-organic Chemistry or Biochemistry with 1-3 years of relevant postdoctoral experience. Training in carbohydrate biochemistry with experience in the isolation, purification and characterization of sugars and oligosaccharides is required. Experience in chemical and/or enzymatic modification of glycoproteins and other biomacromolecules highly desirable. The successful candidate should have a growing publication record in the area of glycoprotein/carbohydrate biochemistry and excellent verbal and written communication skills.

We offer an excellent compensation and benefits package and an attractive relocation policy as well as a work environment that offers considerable opportunity for personal and professional growth. For confidential consideration, send your C.V. and names of three references to Robert F. Obst, P&A Senior Employment Consultant, R0055, Smith Kline & French Laboratories, Research and Development Division, P. O. Box 1539, King of Prussia, PA 19406-0839. We are an Equal Opportunity Employer, M/F/H/V.

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DEPUTY CHANCELLOR AND DEAN OF AGRICULTURE

TEXAS A&M UNIVERSITY SYSTEM

The Texas A&M University System invites applications and nominations for Deputy Chancellor and Dean of Agriculture, who will be responsible for the teaching, research, extension and public service activities of the College of Agriculture, the Texas Agricultural Experiment Station, the Texas Agricultural Extension Service, the Texas Veterinary Medical Diagnostic Laboratory, and the Texas Forest Service. Reporting to the Chancellor and the Provost, the incumbent has responsibility for a budget of about $650 million, 4,300 employees, 1400 graduate and 2400 undergraduate students, and agency installations throughout Texas.

Qualifications include a Ph.D in an academic field of agriculture, science, or engineering; demonstrated ability to manage and develop professionals and faculty; and a national and international reputation for leading accomplishments in academic scholarship in his or her field. At least 10 years experience as a researcher/educator and as an academic department head, dean or equivalent is required.

Nominations and applications should be sent to: Dr. Herbert H. Richardson, Chairman, Agriculture Search Advisory Committee; 301 Wansenbaker Engineering Research Center; Texas A&M University System, College Station, Texas 77843-3577. The search will remain open until September 1, 1987 or until the position is filled. Texas A&M University System is an equal opportunity, affirmative action employer.
POSTDOCTORAL POSITION—A postdoctoral position is available on an NIH training grant. Projects include regulation of melanogenesis growth and proliferation by MSH, insulin, and IL-1; promotion of melanogenesis by UV radiation; genetic analyses of differentiated functions in cultured melanoma cells. A curriculum vitae including the names and addresses of two references should be sent to: Dr. John Pawelek, Department of Dermatology, Yale University School of Medicine, New Haven, CT 06510. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION—Available immediately to study amyloid precursor protein (APP) and its gene expression in transgenic mouse lines expressing new gene constructions. A background and/or interest in neurobiology is required. Appointees will work with Dr. William H. Pardridge, Department of Medicine, University of California, Los Angeles (UCLA), School of Medicine, Los Angeles, CA 90024.

POSTDOCTORAL POSITION—MOLECULAR BIOLOGIST to study ion channel properties of human cancer cells in culture, protein, and/or antibody preparations. The position is immediately available for three to five years. Send curriculum vitae and references to: Dr. Richard S. Huganir, Department of Neurobiology and Behavior, University of Rochester Medical Center, Rochester, NY 14642.

POSTDOCTORAL POSITION—Availabe immediately to study the pharmacology of sexual differentiation using a marine model system. Experience in reproductive physiology, endocrinology, and/or pharmacology is desired. Send curriculum vitae and references to: Dr. David J. Oliver, Department of Biochemistry, University of Idaho, Moscow, ID 83843.

POSTDOCTORAL POSITION—Available immediately for neurochemical studies of the developing CNS. Funding: 3 years. Applicants should have experience in the areas of autoradiography, histochemistry, or electron microscopy and be proficient in the use of microcomputers. Send curriculum vitae and three references to: Dr. John Y. Chiang, Department of Anatomy, University of Pennsylvania, School of Medicine, 3401 Spruce Street, Philadelphia, PA 19104.

POSTDOCTORAL POSITION—Available immediately for research on transgenic mice in the Department of Immunology and Cancer in vivo. Send curriculum vitae and references to: Dr. John Y. Chiang, Department of Immunology and Cancer in vivo. Send curriculum vitae and references to: Dr. James Finke, Ph.D., Mary Jane Thomsen, Ph.D., Department of Immunology and Cancer, Research Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44106.

POSTDOCTORAL POSITION—Postdoctoral position is available immediately to study the growth factors synthesized by endothelial cells and/or their organization as extracellular matrix. Send curriculum vitae and references to: Dr. William H. Pardridge, Department of Medicine, University of California, Los Angeles (UCLA), School of Medicine, Los Angeles, CA 90024.

POSTDOCTORAL POSITION—Available immediately for research involving molecular biology, biochemistry, and/or cell biology. The position is immediately available for three to five years. Send curriculum vitae and three references to: Dr. David J. Oliver, Department of Biochemistry, University of Idaho, Moscow, ID 83843.

POSTDOCTORAL POSITION—Available immediately for research on the molecular basis of radiation resistance in human cancer cell lines. Send curriculum vitae and references to: Dr. William H. Pardridge, Department of Medicine, University of California, Los Angeles (UCLA), School of Medicine, Los Angeles, CA 90024.

POSTDOCTORAL POSITION—Available immediately for research involving molecular biology, biochemistry, and/or cell biology. The position is immediately available for three to five years. Send curriculum vitae and three references to: Dr. David J. Oliver, Department of Biochemistry, University of Idaho, Moscow, ID 83843.
**STRATAGENE CLONING SYSTEMS**

**RESEARCH PROGRAM DIRECTOR**

Stratagene is looking for individuals who can assume the role of research program director. Qualified applicants must have an ongoing research program and have demonstrated the ability to obtain research support in the form of grants or contracts in the areas of genetic disease, genome mapping, or mammalian gene expression, the latter preferably with relevance to expression in transgenic animals. Corporate matching funds are available to supplement research programs supported by grants. In addition, technical support and reagents will be available from Stratagene’s molecular biology research products division. Stratagene offers an extremely attractive compensation package to qualified individuals, including a substantial stock option plan.

Stratagene’s financial success has allowed it to relocate its research facility to the heart of La Jolla’s research community. The Salk Institute, Scripps Clinic, and the University of California, San Diego are among the numerous academic and commercial research centers within one mile of the new Stratagene location. The new site is adjacent to the Torrey Pines State Reserve, offering miles of coastal hiking and jogging trails leading to the Pacific Ocean.

Inquiries will be accepted in strict confidence by:

Candra A. Carter
Administrative Coordinator
Stratagene
11099 North Torrey Pines Road
La Jolla, CA 92037

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**Sungene is expanding**

Sungene Technologies Corporation, an established plant biotechnology company in the San Francisco Bay Area, is expanding its staff of Scientists to conduct research in the areas of:

- **Plant Tissue Culture** involving protoplast isolation, transformation, callus induction, plantlet regeneration and in-vitro selection in agronomic crops.
- **Plant Lipid and Protein Biochemistry** using enzymological and analytical approaches as well as collaboration with cell biologist and plant breeding station scientist.
- **Molecular Biology** including nucleic acid manipulation involving the identification, isolation, expression and regulation of genes in plant systems.

Ideal candidates will have an advanced degree, 3+ years experience and an interest in working in an organization with a strong technical and commercial orientation.

Sungene Technologies offers excellent salary, benefits, relocation and stock option plans. Please send resume with references to:

John Kelley
Sungene Technologies Corporation
3330 Hillview Avenue
Palo Alto, CA 94304

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**ImmuNOTherAPEUTICS INC.**

ImmuNOTherapeutics, Inc., is a Biotechnology Company involved in the development of human immunopharmaceuticals.

Immediate positions are open for individual(s) at the Master’s or Ph.D. level, preferably with experience, in the following areas:

**CHEMIST/BIOCHEMIST** — major responsibilities include preparation and purification of bacterial lipopolysaccharides and natural occurring polysaccharides using column chromatography and HPLC.

**SYNTHETIC CHEMIST/BIOCHEMIST** — major responsibilities are synthesis of polysaccharide-protein and protein-protein complexes.

**LIPOSome CHEMIST** — major responsibilities include preparation, formulation, and evaluation of liposomes as drug carriers.

ImmuNOTherapeutics, Inc., intends to hire one or more individuals to fill these needs depending on the background and experience of applicants. Compensation commensurate with experience. Reply in confidence to ITI, 3505 Riverview Circle, Moorhead, MN 56560, (701) 237-5682.
POSTDOCTORAL POSITIONS OPEN

POSTDOCTORAL POSITIONS available immediately and later for the study of the biochemistry and cell biology of actin-myosin and microtubule-kinase moieties in non-muscle cells. Appointment would be as a Staff Fellow or Senior Fellow (United States citizen), initially for 2 years and renewable annually for a maximum of 5 years. The starting salary will be $20,000 or higher, depending on experience. Candidates with strong background in protein structure-function, cell biochemistry, or cell biology should contact: Dr. Edward D. Korn, Laboratory of Cell Biology, National Heart, Lung, and Blood Institute, National Institutes of Health, 9000 Rockville Pike, Building 3, Room B1-22, Bethesda, MD 20892. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS DROSPHILA DEVELOPMENT
HOWARD HUGHES MEDICAL INSTITUTE

The Drosophila Group at the Howard Hughes Medical Institute at the University of Utah in Salt Lake City currently has several postdoctoral positions available. Experience with genetics and/or molecular biology is preferred. Prior experience with Drosophila is not required. Our group consists of three highly interactive labs whose combined research interests cover most of Drosophila development.

Tullie Hazelrigg: Genomic position effects which confer novel position-dependent pattern of gene regulation. Trans-acting regulators of dosage compensation. Material-effect genes which are necessary for normal pattern formation in the early embryo.

Shigeru Sakonju: Genetic and molecular analysis of the homoeotic genes in the bithorax complex. Functions of the protein encoded by the homoeotic genes.

Carl Thummel: Determination of the structure and function of a set of regulatory genes induced by the steroid hormone ecdysone with the goal of determining what role these genes may play in initiating metamorphosis.

Please send curriculum vitae and list of three references to: Howard Hughes Medical Institute, F 701 Wintrobe Building, University of Utah Medical Center, Salt Lake City, UT 84132.

POSTDOCTORAL RESEARCH ASSOCIATE
Basic science-oriented, NIH-funded postdoctoral program in hypertension research. Participate in studies of humoral factor(s) affecting cell ion transport and growth (see AJP 251, 1994a [1986]). Applicant should have a Ph.D. in biochemistry, pharmacology, or cell biology with at least 1 year of postdoctoral training. Experience with cell culture and chromatography or U.S. citizenship or permanent visa necessary. Salary NIH level or higher, depending on experience. Opportunity for continued employment after postdoctoral program of 1 to 2 years. Contact: Dr. H. W. Overbeck, M.D., Ph.D., Departments of Medicine and Physiology, University of Alabama at Birmingham, Birmingham, AL 35294. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL AND RESEARCH ASSOCIATES. Four positions available immediately. Two are to work on the molecular biology of the human parasite Schistosoma mansoni on the roles of phenol oxidase and tyrosine-rich proteins in the formation of the eggshell. The other two are to work on the structure of spider silk proteins or the proenkaphalin protease. Two positions require a Ph.D. in an appropriate area and the others a B.S. or M.S. Experience with recombinant DNA techniques, analysis of protein secondary structure, or protein purification would be useful. Applications, including three reference letters, should be sent to: Dr. J. Corringley, for the first two, or Dr. R. V. Lewis, for the latter two. Department of Molecular Biology, University of Virginia, Box 3944 University Station, Charlottesville, VA 22901. Phone inquiries to: 434-924-2150 or 3300. The University of Virginia is an Equal Employment Opportunity/Affirmative Action Institution.

POSTDOCTORAL RESEARCH position for Ph.D. in biochemistry or related field. Project involves purification of human tumor-associated antigens. Experience with tissue culture, protein purification techniques, and/or experience with recombinant DNA. Candidates interested should send curriculum vitae, references, and up to $18,000/year. Please send curriculum vitae and list of three references to: Howard Hughes Medical Institute, F 701 Wintrobe Building, University of Utah Medical Center, Salt Lake City, UT 84132.

POSTDOCTORAL RESEARCH ASSOCIATE—Position available for an electrophysiologist to characterize the properties of central axons which have regener-ated along peripheral nerve implants. Preference given to applicants experienced in spinal cord physiology and/or tract-tracing, and histological techniques. Please send curriculum vitae with names of three references to: Dr. Pr. B. Fisher, Cancer Center/Institute of Cancer Research, Columbia University, College of Physicians and Surgeons, New York, NY 10032. Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS

POSTDOCTORAL RESEARCH POSITION—Available immediately to study regulatory aspects of muscle contraction. The project will utilize hybrid myo- sin molecules so as to allow incorporation of specifically modified peptides. Experimental techniques to be employed include fluorescence resonance energy transfer, cross-linking, and immunolabeling. The position, funded by the American Heart Association for 2 years initially, has a starting salary of $18,000. Applicant, who should have some expertise in biochemistry and/or cell biology, should send curriculum vitae, references to: Doctor Peter Chanter, Department of Anatomy, Medical College of Pennsylvania, EPP Divison, D200 Henry Avenue, Philadelphia, PA 19129.

An Equal Opportunity/Affirmative Action Employer.

* * *

Direct General
International Center for Agricultural Research in The Dry Areas

The International Center for Agricultural Research in the Dry Areas (ICARDA), with headquarters at Aleppo, Syria, is one of the 13 international agricultural research organizations which are supported by the Consultative Group on International Agricultural Research (CGIAR), an association of official and private donor agencies, co-sponsored by FAO, UNDP and the World Bank. ICARDA serves as an international center for research to improve barley, faba bean and lentil and as a regional center for research in wheat, chickpea (with ICRIOSA), pasture and forage crops and livestock husbandry.

The Board of Trustees is seeking to identify a suitable candidate for the Director General post which will be vacant towards the end of this year. The ideal candidate would probably:

* have a proven record in research administration and management, preferably in an institution containing scientists of different nationalities and disciplines;
* have significant experience in agricultural research in developing countries;
* be familiar with the CGIAR system;
* be prepared to travel extensively.

Knowledge of Arabic would be an advantage.

Those interested in being considered for this post should apply enclosing an up-to-date curriculum vitae, in cover marked Personal and Confidential, by not later than July 31st, 1987 to:

The Chairman DG Search Committee

IDeputy Director General
International Cooperation

ICARDA
P.O. Box 5406
Aleppo
Syria

If required, additional information will be provided by the Senior Administrator, ICARDA, P.O. Box 5406, Aleppo, Syria.
STRATEGIES FOR THE EVALUATION OF ANTI-HIV EFFECTS OF PEPTIDE DRUGS IN THE IMMUNE AND CENTRAL NERVOUS SYSTEMS

CHAIRMEN
Frederick K. Goodwin, M.D.,
Scientific Director, DIRP, NIMH
Jesse Roth, M.D.,
Scientific Director, NIDDK

TUESDAY, JUNE 30, 1987
9:00 a.m.-5:00 p.m.
NATIONAL INSTITUTES OF HEALTH
Building 31, Conference Room #10
9000 Rockville Pike, Bethesda, MD 20892

The program will consider variables in detecting Peptide T effects, virus quantitation in other assays, and interactions at the CD4 receptor.

Further information may be obtained by contacting the office of Dr. Peter Bridge, NIMH, Bethesda, Maryland at (301) 496-7789.

POSTDOCTORAL RESEARCH SCIENTIST

Berlex Laboratories, Inc., a rapidly growing pharmaceutical company located in Northern New Jersey and a wholly-owned subsidiary of Schering AG of Berlin, West Germany*, has a unique professional opportunity for a qualified scientist to initiate novel research in a multidisciplinary research environment.

The successful candidate will work with biologists and chemists on new approaches to treat cardiovascular diseases. Applicants for the position should have a Ph.D. in an area related to muscle/endothelial cell biology. A background in basic physical sciences would be desirable. This will be a two year appointment.

Berlex offers a competitive salary, a comprehensive benefits package and an excellent environment for basic science. Prospective candidates are invited to send a curriculum vitae and a Statement of Research proposal, by July 10, 1987, to: Lila Bernstein, Manager, Human Resources R&D, Berlex Laboratories, Inc., 110 East Hanover Avenue, Cedar Knolls, NJ 07927. Equal Opportunity Employer M/W/H.

Electrophysiologists

The Upjohn Company, located in Kalamazoo, Michigan, has several research associate positions open in the areas of electrophysiology and neuropharmacology. Successful candidates will have a BS degree in a biomedical science and 2 or more years of post-baccalaureate laboratory bench experience with electrophysiological techniques or have an MS degree. Individuals are needed with expertise in one or more of the following areas:

1. Intracellular/patch recording, including voltage and current clamping of single cells or isolated membrane; fabrication and use of ion-selective microelectrodes, suction and patch pipettes to monitor ion conductance through ion channels; techniques for isolation of single heart and smooth muscle cells;

2. Extracellular unit recording to conduct studies in the area of central nervous system control of blood pressure;

3. Neuromuscular physiology techniques, including muscle tension recording, use of suction electrodes and field stimulation, and analysis of volume-conducted potentials.

Experience with automated data acquisition and analysis is desirable and selected individuals will be involved with basic research, drug development and have an opportunity to publish.

We are located in a medium-sized Southwestern Michigan community with access to a rich mix of cultural, educational and recreational pursuits including numerous lakes and a four-season climate. Upjohn offers the opportunity for career growth, a competitive salary commensurate with experience, a comprehensive benefits program and relocation assistance. For confidential consideration, please refer to Ad number 1790-A and send a curriculum vitae to M. William Rex, Employment Representative, The Upjohn Company, Kalamazoo, Michigan 49001

Upjohn

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POSTDOCTORAL RESEARCH ASSOCIATES

Interdisciplinary program in endocrinology supported by NIH Training Grant offers research in Pituitary- Gonadotropin Function (R. L. Birothet, Ph.D., Ob/Gyn); Gonadotropins and Follicular Development (R. A. Dai- ley, Ph.D., Animal Science); Reproductive Neuroendo- crinology of Endangered and/or Threatened Animals (R. F. Kletzein, Ph.D., Biochemistry); Androgen/Estrogen Action (M. G. Mawhinney, Ph.D., Pharmacology and Toxicology); and Hormonal Regula- tion of Genital Tissue Development (D. Beirne, Ph.D., Cell Biology). Research associates will be involved in the men- tal processes involved. Women and/or minorities are encouraged to apply. Application informa- tion and more detailed descriptions of these research positions are available on request from the program director.

Dr. George A. Hedge
E. J. Van Lier
Professor and Chairman
Department of Physiology
West Virginia University Medical Center
Morgantown, WV 26506–6303
Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL SCIENTIST/ RESEARCH ASSOCIATE/ RESEARCH SCIENTIST

Studies designed to determine the molecular basis of human prostate cancer development and metastasis. Experi- mental approach will involve DNA transfection, CDNA cloning, DNA sequencing and the functional analysis of tumor- and metastasis-inducing genes. Experience in molecular biology and recombinant DNA technology will be required. Send curriculum vitae and three letters of reference to: Dr. P. B. Fisher, Department of Urology and Cancer Center/Institute of Cancer Re- search, Columbia University College of Physicians and Surgeons, New York, NY 10032. Equal Opportunity Employer/Affirmative Action.

UNIVERSITY OF SOUTHAMPTON

Applications are invited for a research assistant (nor- mally a science graduate) in medicine at the University of Southampton, commencing 1 October 1987. The person appointed will join a postdoctoral lecturer in the develop- ment of molecular techniques within a group research- ing the autoimmune basis of endemic disease. A knowl- edge of immunology is helpful, but experience in the techniques of molecular biology not essential. The post is for 5 years renewable annually. Salary is £8,185 per annum.

The salary will be in the range £8,185 to £11,625 per annum according to qualifications and experience.

Enquiries to: Dr. T. J. Wilkin, Professorial Medical Unit, Southampton General Hospital, Tremona Road, Southampton (telephone 0703 777222, ext. 4291), to whom applications (two copies) giving a brief curriculum vitae and the names, addresses, and telephone numbers of three referees should be sent before 31 July 1987. Please quote Ref. No. AJ/222.

RESEARCH ASSOCIATE position available 1 Au- gust 1987 for Ph.D. or M.D. student with experience in 5 years of experience in traditional Chinese medicine plus strong background in biochemistry/pharmacology (em- phasis on herbal drugs/Chinese medicine) and molecular biological techniques. Principal responsibilities will be to design, conduct, and prepare reports on neuropharmacological-behavioral type experiments, including techniques such as HPLC and microdialysis. Salary $21,000 plus benefits. Send résumé and names of three referees to: N. Koe- stjarte, Employment, Room 262, Stevenson-Lawson Building, University of Western Ontario, London, Ontario, Canada, N6A 3B7. In accordance with Canadian immigration requirements this advertisement is directed to Canadian citizens and permanent residents of Canada. An Equal Opportunity Employer.

RESEARCH ASSOCIATE-NEUROBIOLOG- EN/NEUROCHEMISTRY. Position in established lab- oratory to study molecular and central auditory and vestibular processes. Experience in receptor binding, immunocytochemistry, recombinant DNA techniques, or perfusion/micro-dialysis units required. Salary. Starting salary: $22,000 plus fringe benefits, for 2 to 3 years, renewed annually. Send curriculum vitae, repre- sentative publications, and names of three references to: Dr. J. B. Hiller, Laboratory of Bio-chemistry.

Wayne State University School of Medicine 540 East Canfield Avenue, Detroit, MI 48201

RESEARCH ASSOCIATE/PHARMACOLOGY—BIOCHEMISTRY POSITIONS AVAILABLE immediately for investigation of various enzyme encap- sulated into carrier erythrocytes for drug antagonism studies. Knowledge of enzymeology and/or pharmacoki- netics preferred. Send curriculum vitae, statement of research interests, and names of three references to: Dr. L. R. Way, Department of Pharmacology, Texas A&M University, Medical Sci- ences Building, College Station, TX 77843. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE: Neurophysiologist (M.D. or Ph.D.) to join a multidisciplinary group study- ing the functional organization of the primate thalamus in normal and pathologic states. For an article on the pathology of movement disorders. Candidate should have experi- ence with techniques of chronic extracellular recording in behaving primates. Send curriculum vitae, statement of research interests, and names of three references to: Dr. M. R. DeLong, Professor of Neurology and Neuroscience, Department of Neurology, Johns Hopkins University School of Medicine, Meyer 5-185, 600 North Wolfe Street, Baltimore, MD 21205.

RESEARCH ASSOCIATE Available immediately for 2 or 3 years to conduct research on genetic engineering of soy proteins. Experience in recombinant DNA technologies and a strong background in protein chemistry are essential. Salary: $18,000 to $20,000 per year. Send résumé and names of three references to: Dr. Michael J. DeLong, Department of Food Science, University of Wisconsin—Madison, 1605 Linden Drive, Madison, WI 53706. An Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE, Human Motor Phys- iology/Psychophysics. Experimental psychologist with experience in neurophysiology and psychophysics. Development and implementation of studies of motor performance in normal subjects and in patients with various types of movement disor- ders. Send curriculum vitae, statement of research goals, and three letters of recommendation to: Marlon R. DeLong, Professor of Neurology and Neuroscience, Department of Neurology, Johns Hopkins University School of Medicine, Meyer 5-185, 600 North Wolfe Street, Baltimore, MD 21205.

RESEARCH ASSOCIATE POSITION available immediately for a crystallographer interested in the deter- mination of linear polymer structures. Research involves the development of useful x-ray data collection methods from macromolecular preparations for crystal structure analysis and affords the opportunity to learn unusual aspects of diffraction physics not frequently encountered in x-ray crystallography. Knowledge of computer crystal structure analysis and computing is most desirable and some knowledge of electron microscope operation would be useful. Initial appointment with extension negotiable. Salary is about $20,000 per annum. Applicant should send curriculum vitae and three references to: Dr. L. R. Post, Department of Chemistry, Western State College, Medical Foundation of Buffalo, Inc., 73 High Street, Buffalo, NY 14203.

RESEARCH SCIENTIST to propose original, graduate-level projects and conduct research in acid/alka- line sizing of paper and in repulpability test and development of repulpable and recyclable paper systems for actual Pulp and Paper Mills, develop chemical treat- ment programs for Pulp and Paper Mills to include specification of cationic and anionic emulsified strength and sizing aids, emulsifiers, deposit control agents, and surfactants and utilize chemical formulation design to develop and optimize new products (sizing aids, emulsi- fiers, repulpable aids) utilizing high degree of statistical analysis to include experimental factorial and multilinear regression analysis. Require M.S. in paper science or equivalent. Salary: $30,336. Please include a statement of research interest in alkaline sizing of paper and demonstrated ability and proven record of performance in stated duties by way of accom- plishments or publication. An equal opportunity employer. Thirty-seven hour week; 8 a.m. to 4:30 p.m. Submit résumé to: Job Service of Florida, 1307 North Mon- tgomery Street, Tallahassee, FL 32303. Job #FL- 570696.

RETROVIROLOGIST—RESEARCH SCIENTIST

The Regional Primate Research Center (RPRC) at the University of Washington seeks a virologist with Ph.D. and experience in retrovirology to join an active, expand- ing group studying simian retroviruses, SADs-S (D Wash- ington type D retrovirus), and SIV (Simian Immuno- deficiency Virus), a lentivirus closely related to human acquired immunodeficiency syndrome (HIV). We seek an individual interested in the pathogenesis of AIDS-like diseases in nonhuman primates as animal models for HIV infection in man. Should have, or be prepared to develop, skills in virus isolation, cultivation, quantitation, and characterization; experience in molecular biology desirable but not re- quired. Collaborative efforts with HIV research groups at the University of Washington are anticipated. Opportunities in the Seattle area have been instituted. Ongoing studies include testing of anti-viral drugs and recombinant vac- cines for HIV and the simian retroviruses. Future efforts will focus on gene expression of the simian retroviruses. Starting salary: $26,148 to $30,336. Submit curriculum vitae and three references by 24 July 1987 to: Dr. Michael G. Kates, Core Staff Scien- tist, Regional Primate Research Center SJ-50, Uni- versity of Washington, Seattle, WA 98195. Tele- phone: 206-543-8857. Equal Opportunity/Affirmative Action/Equal Opportunity Employer.
FACULTY POSITION IN PHARMACEUTICS

CATHOLIC UNIVERSITY OF LOUVAIN
(BELGIUM)

The Faculty of Medicine at the Catholic University of Louvain is seeking applicants for a full-professor level position in pharmaceutics (galenic pharmacy).

Required qualifications:

—Doctor in pharmacy (Pharm D), Ph. D. or equivalent qualification, and/or “Agrégation” (in French) or “Habilitation” (in German), with post-doctoral experience in the field of formulation and pharmaceutical technology;

—ability to carry out autonomous research in these fields.

The knowledge of French language will be an asset.

Functions:

—develop and carry out research in the fields of product formulation, novel drug delivery systems, properties of matter related to dosage form design,

—train and supervise graduate students (doctorate, specialisation) in the above fields,

—take a part of teaching in the undergraduate program of pharmacy.

Salary will be established upon qualification and experience according to the scale in force in the Belgian universities.

The position is available from 1st October 1987.

Applicants should submit curriculum vitae with a list of their publications, a copy of their diplomas and the names of two references.

Applications or inquiries should be directed to:

Professor P. MACQ
Recteur de l’Université Catholique de Louvain
1, Place de I’Université
1348 LOUVAIN-LA-NEUVE
Belgium

Deadlines: 10 July 1987

POSITION DESCRIPTION

DIRECTOR

Center for Compound Semiconductor Microelectronics
University of Illinois at Urbana-Champaign

The Center for Compound Semiconductor Microelectronics (CCSM) is an interdisciplinary program for research in the area of compound semiconductor optical and electronic theory, materials, devices, transmission media, and systems. Its members hold appointments in the Departments of Electrical and Computer Engineering, Computer Science, Materials Science and Engineering, Chemical Engineering, and Physics. Current research, which also provides graduate student thesis research opportunities, undergraduate education and research opportunities, and opportunities for interaction with industrial researchers, is funded in part by a grant from the National Science Foundation under the Engineering Research Center program. The Center maintains sophisticated materials and device processing facilities and will be housed in a new research laboratory presently under construction. The compound semiconductor microelectronics program currently has over 30 associated faculty and more than 100 graduate assistants. The Director is the chief executive officer and reports directly to the Dean of the College of Engineering.

The Search Committee is seeking candidates with evidence of superior administrative abilities and a distinguished record of scholarly accomplishments. The Director should be qualified to be appointed to the rank of Professor, with full tenure, in an appropriate department. Salary is negotiable. Suggested starting date is August 21, 1987.

In order to assure full consideration, nominations or applications, together with complete current resume material, should be received by July 31, 1987. Names, addresses, and telephone numbers of at least three references should be included.

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

Professor James J. Coleman, Chair
Center for Compound Semiconductor Microelectronics
1406 West Green Street
Urbana, IL 61801
(217) 333-2555

(ICI RS AT)
International Crops Research
Institute for the Semi-Arid Tropics

Pulse Entomologist
at Hyderabad, India

The Legumes Program of ICRISAT conducts research on three legumes of major importance in the semi-arid tropics: pigeonpea, chickpea, and groundnuts. The entomologist will work in cooperation with other ICRISAT scientists to improve host plant resistance to insect pests and to investigate other strategies for the reduction of insect-caused losses in pigeonpea and chickpea. The work will involve international responsibility for pest management research on these crops and the selected candidate will be required to travel considerably and liaise with scientists in regional and national programs.

Essential qualifications: Doctorate in entomology. Significant research on entomological problems of economic crops as evidenced by published reports and scientific papers. Enthusiasm, dedication and ability to conduct productive pest management research. Fluency in spoken and written English.

Desirable qualifications: Experience in screening plants for resistance to insect pests and/or productive pest management research in a tropical country. Expertise in biometrics and computer utilization.

Salary at principal staff level, according to qualifications and experience.

The appointee will be based at the ICRISAT Center, Patancheru, 30 Km NW of Hyderabad, India. Hyderabad is accessible by air to international airports and has good living conditions, recreational and medical facilities. Educational facilities exist for children to the age of twelve.

Send résumé, including present salary level, and names of three referees to:

Director General
ICRISAT Patancheru P.O.
A.P. 502 324, India

within 60 days from the date of advertisement.
RESEARCHER/WRITERS. The World Resources Report has two full-time, 6- to 8-month positions on this annual book on global resource issues. Must have a strong science and policy background as well as an awareness of international environment and development issues. Must demonstrate ability to handle complex research and writing assignments. $2750 per month. Send résumé and writing samples to: J. Alan Brewster, World Resources Institute, 1750 New York Avenue, Washington, DC 20006.

SCIENTIFIC DIRECTOR. The Institute for Medical Research, an independent institute in San Jose, California, invites applications for the position of Scientific Director. The candidate must have an M.D. or Ph.D. with a record of excellence, leadership, and experience. Send résumé, letter of interest, and contact details to: Dr. John J. M. Martin, President, Institute for Medical Research, 1600 East San Carlos Street, San Jose, CA 95110.

SENIOR SCIENCE ADVISORS—U.S. Environmental Protection Agency is seeking candidates for the position of Senior Science Advisor in Regional Offices. Primary duties include overseeing preparation and review of risk assessments for site-specific exposure situations and the interaction with senior regional managers on policy implications of such assessments. Candidates will have demonstrated experience in environmental science and policy and are expected to have a Ph.D. in environmental science or policy.

RESEARCH SCIENTIST/ BIOMEDICAL ENGINEER. Helen Hayes Hospital invites applicants for the position of research scientist/biomedical engineer (N.Y.S. Grade 22). The position involves research experience in biomedical engineering with 2 years of research experience in the area of biomechanics. Preferred qualifications include experience in kinematics as applied to joint analysis and software development for real-time kinematic data analysis. Major responsibilities will be development of analytical software in support of research programs related to gait and upper extremity analysis, assist in the design and implementation of algorithms for finite element analysis. The salary is $33,115 per year. Send résumé to: New York State Job Service, 55 Church Street, White Plains, NY 10601.

POSTDOCTORAL TRAINING OPPORTUNITIES are regularly available through the College of Biological Sciences at the University of Minnesota. Inquiries may be directed to the Department of Biochemistry, University of Minnesota, 107 Molecular Biology Building, 5-10-21-108-02, St. Paul, MN 55108. The University of Minnesota is an Equal Opportunity Employer and Employer and specifically invites and encourages applications from women and minorities.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS IN ECONOMIC DEVELOPMENT The CRP seeks an individual with a strong background in economics or a related field to conduct research on the economic development of the Caribbean region. The fellowship is for one year, with the possibility of renewal for a second year. The salary is $30,000 plus benefits. Send résumé, three letters of reference, and a brief statement of research interests to: Dr. John J. Martin, President, Institute for Economic Development, 1600 East San Carlos Street, San Jose, CA 95110.

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GENE-TRAK Systems is setting the pace for DNA probe-based diagnostic products for the food and clinical markets. Join our innovative and fast-growing company. We have an immediate need for the following doctoral research scientists.

PROJECT LEADERS

Responsible for developing rapid nucleic acid based assays for the detection of pathogens causing sexually transmitted diseases, gastro-intestinal diseases and human viral infections. Will manage research and development efforts in product development of infectious disease diagnostics. Applicants should be skilled in molecular biology, clinical microbiology and have prior experience in 510K submissions and transfer of products to manufacturing.

STAFF SCIENTISTS

R&D POSITIONS available with primary responsibility to develop nucleic acid probes for the specific detection of a variety of important organisms/viruses in clinical and environmental samples. Research experience in molecular biology/probe development, with a strong and relevant publication record is required.

TECHNICAL SUPPORT POSITION available with responsibility for troubleshooting of production and quality control problems. Will provide technical interface with R&D for product improvement, scale-up and process development in the transfer of new products. Previous product development experience required.

GENE-TRAK Systems offers an attractive compensation and benefits package, which includes equity participation. For immediate consideration, send your resume to Brian Mazar, Human Resources Manager, GENE-TRAK Systems, 31 New York Avenue, Framingham, MA 01701.

An equal opportunity employer.

ENVIRONMENTAL CHEMIST/MODELER

Mobil Oil Corporation is seeking two highly qualified Environmental Scientists to join its Environmental Affairs and Toxicology Department located near Princeton, New Jersey. The successful candidates will conduct studies or coordinate projects aimed at elucidating fate, transport and effects of petroleum related materials in soil and aquatic environs.

ENVIRONMENTAL CHEMIST

Responsibilities include the development and use of analytical techniques to monitor the fate and transport of complex petroleum mixtures and related chemicals, metals in soil, riverine and marine environments; design and conduct sampling programs; prepare overall assessments of fate and effects; and utilize and apply working knowledge of related Federal regulatory guidelines. The candidate should have knowledge/experience in the following areas: pollutant cycles, soil/sediment chemistry, sorption/binding, bioaccumulation, marine chemistry, effluent/waste treatment processes, photolysis/hydrolysis and computer modeling. Effective written/oral communication skills are essential.

This position requires an advanced degree (preferably Ph.D.) in Environmental Sciences or related discipline and 2 to 4 years of relevant experience.

ENVIRONMENTAL MODELER

Responsibilities include the development and use of environmental fate models for simulating migration, transport and attenuation of petroleum related materials; utilize/validate existing EPA and USDA fate and transport models; and generate in-house software to stimulate pollutant cycle processes.

The candidate should have a M.S. Degree in Math, Chemistry, Biology, Computer or Environmental Sciences. Working knowledge of environmental processes, existing fate/transport models, QSAR, DEC systems and environmental monitoring techniques.

For confidential consideration, please forward your resume and salary history to: Manager, Recruiting and Employment, Dept. ECM, Mobil Technical Center, Employee Relations, P.O. Box 1031, Princeton, New Jersey 08540.

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A SYMBOL OF QUALITY, PERFORMANCE AND VALUE

The Reichert-Jung Polyvar line is the most extensive line of research microscopes in the industry. These ergonomically-designed microscopes all feature state-of-the-art infinity corrected optics. Each microscope is individually hand-tooled, insuring perfectly flush lines and joints, with matched objective and eyepiece sets. Our Polyvar line microscopes are designed to make a powerful statement: Reichert-Jung craftsmanship stands above all others. For more information, call (716) 891-3000.