Second Annual Meeting of the
National Cooperative Vaccine Development
Group for AIDS
October 15-18, 1989
The Westin Cypress Creek
Fort Lauderdale, Florida
Sponsored by:

definitions:
National Institute of Allergy and Infectious Diseases

To receive conference registration and abstract submission information, please call or write to:
Debra Casey or Debbie Sullivan
Technical Resources, Inc.
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Deadline for abstract submission and conference registration is August 31, 1989.

Announcement

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Astronomy & Astrophysics
Edited by
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POSITIONS WANTED


M.D., early retired (age 55) from drug industry seeks part-time or projects; excellent at data interpretation and medical writing for NDA's, etc. Telephone: 215-794-5581 or Box 86, SCIENCE.

POSITIONS WANTED

Cell Biologist, Ph.D. Postdoctoral experience, publications, freelance writer. Ultrastructural techniques, freeze fracture, electronmicroscopy. Areas of interest: neuroanatomy, neural development, synapses. Seeks position managing laboratory for scientist and/or writing science papers. Box 118, SCIENCE.


POSITIONS OPEN

ANALYTICAL BIOCHEMIST—Position available immediately for an individual to work at NSI's Toxic Hazards Research Unit in Dayton, Ohio. Experience in the isolation and identification of xenobiotic compounds and their metabolites in biological tissues is desired. The position requires good communication skills and the ability to interact cooperatively with a multidisciplinary team. Title and salary will be commensurate with background and experience. Interested individuals should send curriculum vitae, together with names and addresses of three references, to: Mr. David D. Bell, Human Resources/11, NSI Technology Services Corporation, 101 Woodman Drive, Suite 12, Dayton, OH 45431. NSI Technology Services Corporation is an Equal Opportunity Employer.

ANATOMY FACULTY POSITION (tenure-track) at the assistant professor level. All fields will be considered, although cell biologists are especially encouraged. Candidates should have evidence of independence and promising research in cellular and/or molecular areas, enjoy collaboration, and have teaching ability/potential in anatomy. Excellent salary and start-up available. Applicants should send three or more personal references and their curriculum vitae to: Dr. Richard W. Wiggins, Chair, Department of Anatomy, West Virginia University School of Medicine, 4052 HSN, Morgantown, WV 26506. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF MARICULTURE—Full-time teaching position in a newly developing M.S. in mariculture program. Closing date: 10 August 1989. Starting date 28 August 1989. Candidates must have a Ph.D. in some aspect of mariculture; at least 2 years of postdoctoral teaching experience; and some experience in commercial mariculture operations. Candidates should have the ability to supervise students; aid in program development and direction; and must demonstrate the ability to work cooperatively with state and private regional mariculture facilities and personnel. To apply, include a letter of interest, current resume, copies of all transcripts, and request three letters of reference to: Dr. Steve Barnes, College of Science and Technology, Corpus Christi State University, 6300 Ocean Drive, Corpus Christi, TX 78412. Review of applications will begin 10 August 1989, and continue until a suitable applicant is hired. Corpus Christi State University is an Equal Opportunity/Affirmative Action Employer.

HARVARD UNIVERSITY
Department of Earth and Planetary Sciences invites applications for TWO ASSISTANT PROFESSOR POSITIONS in seismology. We hope to build on our strength in the studies of earth structure, earthquake processes and geodynamics. We expect that full benefit from the digital records will be provided by temporal and geographically distributed digital seismograph networks will be involved advanced methods of wave analysis. Therefore, we are particularly interested in candidates with substantial theoretical abilities and experience in modeling wave propagation in laterally heterogeneous media. Applicants should send a statement of research interests, résumé, and names of at least three references to: Professor Adam M. Dziewonski, Chairman, Search Committee, Department of Earth and Planetary Sciences, Harvard University, 20 Oxford Street, Cambridge, MA 02138.
POSITIONS OPEN

ASSISTANT PROFESSOR
SOUTHEASTERN UNIVERSITY OF HEALTH SCIENCES

The college of pharmacy at Southeastern University of Health Sciences invites applications for full-time non-tenure-track position in pharmacoeconomics. Applicants must have a strong background in physical pharmacy, pharmacoeconomics, nuclear pharmacy and pharmacokinetics. The individual selected will be expected to accept responsibilities for instruction at both undergraduate and graduate levels, develop dosage-forms laboratory, and conduct independent research on some aspect of pharmacoeconomics. Candidate must possess a Ph.D. in pharmacoeconomics with at least 1 year of teaching experience in pharmacoeconomics course and instructing dosage-forms laboratory. Salary is commensurate with experience, with a maximum of $41,000. Qualified applicants are invited to submit their credentials and three letters of recommendations to: Dr. J. A. Norwood, Dean, Southeastern University of Health Sciences, College of Pharmacy, 1750 N.E. 168 Street, North Miami Beach, FL 33162.

An Equal Opportunity and Affirmative Action Employer.

ASSISTANT RESEARCH MOLECULAR BIOLOGIST (ARMB) to carry out a broad-based phylogenetic study of small nuclear RNAs in a variety of eukaryotic organisms. The ARMB will also be in charge of the management of the laboratory, including purchasing and budgeting responsibilities, and supervision and training of laboratory assistants. Research duties include nucleic acid isolation, amplification of RNA using PCR-technology, sequence analysis and computer-assisted determination of RNA secondary structure. Requirements: A Ph.D. in biochemistry, with 3 years of postdoctoral training, demonstrated expertise in DNA cloning, DNA and RNA sequencing, and experience in PCR-based methods, with prior experience in laboratory management. Send curriculum vitae with the names and telephone numbers of three references to: Dr. J. A. Guthrie, Department of Biochemistry and Biophysics, University of California, San Francisco, CA 94143-0448, by 1 September 1989. An Equal Opportunity/Affirmative Action Employer.

CHAIR OF PHYSIOLOGY AND BIOPHYSICS

Candidates are being sought to Chair the Department of Physiology and Biophysics at Albert Einstein College of Medicine. Facilities, positions, and resources are available to develop an outstanding program. Applicants must hold a Ph.D. in a relevant area, have substantial experience in teaching and research, and be able to generate significant external support. Applicants should be able to provide a current curriculum vitae, the names of three or more references, and a brief description of current and planned research activities. Send applications to: Dr. L. Schramm, Physiology Search Committee, Department of Biochemistry, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461. Applications will be reviewed beginning 31 August 1989. Albert Einstein College of Medicine is an Equal Opportunity Employer.

CHIEF OF SURGICAL PATHOLOGY: The Department of Pathology of the University of California, San Diego (UCSD), is seeking a Chief of Surgical Pathology. The candidate will be responsible for the overall administrative, professional and operational activities of surgical pathology. The position includes service, teaching, and research. The applicant should qualify for appointment as either associate professor or professor of pathology in residence and will be expected to recruit several surgical pathologists. Salary and level of appointment will be commensurate with the qualifications of the candidate and based on University of California pay scale. Application with curriculum vitae and names of referees should be sent to: Kurt Benirschke, M.D., Professor of Pathology, UCSD Medical Center H-720A, 225 Dickinson Street, San Diego, CA 92103-1990 by 22 August 1989. Affirmative Action/Equal Opportunity Employer.

RESEARCH INVESTIGATORS (Ph.D.)

Opportunities exist in the following research programs:

CELL BIOLOGY
Purification, characterization and cloning of enzymes/proteins in the cholesterol biosynthetic pathway.
Gene regulation and regulation of protein synthesis and secretion in the cholesterol synthetic pathway.

MICROBIAL GENETICS
Bacterial or yeast genetics.
Develop novel screens for potential therapeutic agents.

DRUG DISTRIBUTION/METABOLISM
Pharmaceutical and biochemical analysis. Knowledge of pharmacokinetics and small animal handling/surgery highly desirable.

RESEARCH ASSOCIATES (B.S./M.S.)

Opportunities exist in the following research programs:

MOLECULAR ONCOLOGY
Tissue culture, (hybridomas), protein purification and antibody-based assays.
The isolation and characterization of genes from human tumors (baculovirus and/or vaccinia expression experience required).

VIROLOGY
Protein purification and identification, viral gene regulation/expression, cloning and M-13 mutagenesis.

MICROBIAL BIOCHEMISTRY AND GENETICS
Protein synthesis, enzyme kinetics and assays for the development of antimicrobial agents.
Genetic manipulation of yeast strains to develop antifungal agents.

CELL BIOLOGY
Enzyme/protein purification, synthesis and secretion in the cholesterol synthetic pathway.

MOLECULAR BIOLOGY/MACROMOLECULES
Antibody production and purification, and DNA sequencing.

DRUG DISTRIBUTION/METABOLISM
Quantitation, isolation and purification of drugs and drugs metabolites in biological samples using HPLC and TLC.
Familiarity with computers/RS1 and small animal handling/surgery desirable.

Please forward your resume to: The Squibb Institute for Medical Research, Dept. 800, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.

SQUIBB
CELL BIOLOGISTS AND NEUROBIOLOGISTS: As part of an initiative to expand research and teaching in the Department of Anatomy and Cell Biology, the University of Kansas Medical Center, applications are invited from individuals with M.D. and a minimum of 2 years of post-doctoral research experience. Candidates are expected to develop an externally funded, innovative research program. All qualified applications will be considered. The Department comprises ten tenure-track faculty, is housed in a modern laboratory building, and is involved in basic, clinical, and translational research. Faculty members are responsible for participation in research in their respective areas of interest. Responsibilities include the supervision of post-doctoral fellows and the preparation of research grant proposals. Applicants should have an expertise in cell development or molecular biology, and the application of these in neurobiology is encouraged to apply. Applications will be reviewed beginning 15th November 1989. The successful candidate will be expected to teach in one of the basic medical courses offered by the Department and participate in the graduate program. Applicants should also provide evidence of present and future research interests, and three references to: Dr. Joseph C. Besharse, Chairman, Department of Anatomy and Cell Biology, University of Kansas Medical Center, 39th and Rainbow Boulevard, Kansas City, KS 66103. KUMC is an Equal Opportunity Employer.

CHIEF, TEXAS SALTWATER FISHERIES PROGRAM. Deser Ph.D., major coursework in fisheries or related disciplines, and at least 5 years of experience at the level of top-level supervisor, involved in collecting fisheries data. Have extensive administrative and technical experience in responsible positions of similar fisheries planning and management. Salary: $35,796 plus benefits, staff of 101, budget $4 million. Send curriculum vitae, five references to: Dr. Gary C. Mattick, Smith School Road, Austin, TX 78744. Additional information: 512-389-4857.

DIRECTOR OF RESEARCH. Georgetown University Medical Center is recruiting applicants for a tenure-track faculty position, rank dependent upon qualifications. An innovative scientist is sought with training and research interest in molecular aspects of gene expression, either in the discipline of viral or in the field of molecular virology. Applicants should have a Ph.D. with at least 2 years of post-doctoral research experience in molecular virology. The successful applicant is expected to establish an independent research program and to participate in graduate training in an expanding academic department. Newly renovated laboratories provide state-of-the-art research facilities. Salary is competitive. Interested individuals should submit their complete curriculum vitae, a statement documenting research and administrative experience and names of five references to: Dr. Gary C. Mattick, Smith School Road, Austin, TX 78744. Georgetown University is an Equal Opportunity/Affirmative Action Employer.

DOCTORAL PROGRAM IN BIOCHEMISTRY. The Department of Biochemistry at the University of Kansas Medical Center, 39th and Rainbow Boulevard, Kansas City, KS 66103 is seeking applications from qualified candidates with Ph.D. degrees in biochemistry to participate in the development of a new Ph.D. program in Biochemistry. Applicants must have a background in molecular and cell biology and a strong interest in teaching and research. The successful candidate will be expected to teach in one of the basic medical courses offered by the Department and participate in the graduate program. Applicants should also provide evidence of present and future research interests, and three references to: Dr. Joseph C. Besharse, Chairman, Department of Anatomy and Cell Biology, University of Kansas Medical Center, 39th and Rainbow Boulevard, Kansas City, KS 66103. KUMC is an Equal Opportunity Employer.

FACULTY POSITION: MOLECULAR ViroLOGY OF PAPILLOMA VIRUSES. The Division of Molecular Virology at Baylor College of Medicine invites applications for a tenure-track faculty position, rank dependent upon qualifications. An innovative scientist is sought with training and research interest in molecular aspects of gene expression, either in the discipline of viral or in the field of molecular virology. Applicants should have a Ph.D. with at least 2 years of post-doctoral research experience in molecular virology. The successful applicant is expected to establish an independent research program and to participate in graduate training in an expanding academic department. Newly renovated laboratories provide state-of-the-art research facilities. Salary is competitive. Interested individuals should submit their complete curriculum vitae, a statement documenting research and administrative experience and names of five references to: Dr. Gary C. Mattick, Smith School Road, Austin, TX 78744. Georgetown University is an Equal Opportunity/Affirmative Action Employer.
Neurogenetic Corporation is a rapidly growing biotechnology company involved in the design of novel therapeutic agents for the treatment of neurological and psychiatric disorders.

Several staff scientist positions are now available for research scientists with 2 or more years of postdoctoral experience and the following qualifications:

**MOLECULAR MODELING:** Biophysics or chemistry Ph.D. with experience in computer aided molecular modeling and/or computational chemistry for the purpose of drug design. Areas of application will include both proteins and small organic molecules.

**MEDICINAL CHEMISTS:** Ph.D. degree with experience in synthetic organic chemistry or in the discovery and use of natural products for drug design; applications are sought at both senior (group leader) and staff scientist levels.

Neurogenetic Corporation occupies modern, well-equipped laboratories in a suburban area near New York City. We offer a stimulating multi-disciplinary research environment, competitive salaries and benefits, and opportunities for stock ownership. Applications, which will be kept confidential, should include a Curriculum Vitae and three references. Apply to:

Human Resources Department
Neurogenetic Corporation
215 College Road
Paramus, NJ 07652

An equal opportunity employer

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**MICROBIOLOGIST**

Marion Laboratories is an “uncommon company”, a leader in the rapidly expanding, high technology segment of the health care industry. We currently have a position available in our Analytical Department for an experienced Microbiologist.

The successful candidate will possess an M.S. or Ph.D. in Microbiology and have experience in developing methods for the isolation, cultivation, and characterization of microorganisms from environmental sources. The successful candidate will also have excellent written and verbal communication skills.

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 to: Marion Laboratories, Inc., Recruiting and Placement, Dept. SRKS, 10236 Marion Park Drive, Kansas City, MO 64137. Equal Opportunity Employer.

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**Scientist**

Smith Kline & French Laboratories, a world-wide leader in pharmaceutical research, is seeking a scientist to join our rapidly expanding Pharmacokinetics group.

The scientist will design and direct clinical and preclinical pharmacokinetic and drug metabolism studies and perform pharmacokinetic and statistical data analysis. The position offers substantial opportunity for collaboration with other scientists involved in the discovery and development of novel therapeutic agents. As part of multi-disciplinary project teams, the scientist will be expected to provide the drug metabolism perspective to fellow research scientists. Since the scientist will assume a high degree of project related responsibility, the position will also draw heavily upon individual scientific initiative, independence and innovation. Excellent interpersonal and communication skills are critical. Publication and presentation of research findings are strongly encouraged.

Candidates should possess a Ph.D. or Pharm.D. in Pharmacy, Pharmacology, Pharmacology or a related field. An in-depth understanding of pharmacokinetic principles and demonstrated ability to apply these principles in metabolism is required as well as strong bioanalytical skills.

Based in a state of the art research facility in suburban Philadelphia near Valley Forge, PA, SK&F provides a stimulating, collegial atmosphere with extensive scientific resources available to each scientist. We offer an attractive compensation/benefits/relocation package. For confidential review, please forward your CV to Liz McKendry, L0081, Smith Kline & French Laboratories, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an equal opportunity employer. M/F/H/V.
POSITIONS OPEN

EXERCISE PHYSIOLOGIST, PH.D.

The Miriam Hospital, an affiliate of the Brown University Program in Medicine, is seeking a Ph.D. or equivalent trained personnel to be Associate Director of the Human Performance Laboratory and to participate in independent and collaborative clinical exercise physiology research. Candidates will be considered for a position on the Brown University medical faculty as an assistant or associate professor of medicine (research). If hired at the associate level, the candidate must be a scholar who has attained national recognition through significant research contributions in peer-reviewed journals. The position requires a doctoral degree in physiology, biochemistry, exercise physiology, or exercise physiology; research experience in human exercise physiology as a related discipline; the ability to supervise a clinical research exercise laboratory, familiarity with statistical and data analysis. Preference will be given to individuals with documented research experience in lipid physiology, cardiovascular performance, physics, glucose regulation, or cardiac rehabilitation. Facilities include a GCRC-funded outpatient metabolic kitchen, full animal care facilities, and 1,800 square feet of laboratory space. Presently funded projects include studies of lipid metabolism in athletes, the effect of exercise on diabetes during pregnancy, and the effect of lipid-lowering diets in heart disease. The Miriam Hospital is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

MOLECULAR AND CELLULAR IMMUNOLOGY
UNIVERSITY OF CALIFORNIA, BERKELEY

The University of California at Berkeley is seeking an immunologist to join the Division of Immunology in the Department of Molecular and Cell Biology. The appointee may be at the level of assistant, associate, or full professor depending on the candidates' experience and achievements. Minimum qualifications include: a Ph.D. and postdoctoral training in immunology or related field, evidence of independent research in molecular and cellular immunology; and effective communication skills. Duties include participation in graduate and undergraduate instruction in immunology and maintenance of a strong research program to provide training for graduate students and postdoctoral fellows, and involvement in the administration of the newly formed Division of Immunology. Applications/nominations along with curriculum vitae, statement of research interests and representative reprints, and the names of three references should be sent by 1 September 1989 to:

Dr. Marian E. Koshland
Chairperson, Search Committee
Life Sciences Annex, Box 439
University of California
Berkeley, CA 94720

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

THE HEBREW UNIVERSITY—HADASSAH MEDICAL SCHOOL

JERUSALEM

FACULTY POSITIONS

The Faculty of Medicine invites applications for two tenure-track faculty positions and for Allen Fellowship candidates leading to tenure-track positions in basic medical sciences. Preference will be given to candidates who utilize modern molecular approaches in the following areas: Medical and general microbiology, human genetics, parasitology, biotechnology, cell biology and physiology. Ph.D. and/or M.D. degree and postdoctoral training are required. Excellence in research and teaching will be of prime importance in the decisions of the Search Committee. Candidates are expected to develop independent research careers, list of publications, research plans, and three letters of recommendation addressed to the Dean should reach: Mrs. D. Abramson, Oﬃce of the Dean, POB 1172, 91010 Jerusalem, not later than 31 October 1989.

PROTEIN BIOCHEMIST

Merck Sharp & Dohme Research Laboratories is currently offering an excellent career opportunity for a Protein Biochemist/Molecular biologist to join the expanding Department of Cellular and Molecular Biology. Research in this area is applied to the analysis and expression of genes of potential pharmaceutical interest.

Responsibilities for this position will include recombinant protein purification and characterization, employing techniques such as HPLC, FPLC, radio-immunoprecipitation, ELISA, gel electrophoresis and immunoblotting.

An M.S. or B.S. degree in Biochemistry, Molecular Biology or the equivalent, with at least 2 years of broad and significant experience in protein biochemistry is required. Experience in recombinant DNA technology and general molecular biological procedures is desired.

Merck Sharp & Dohme Research Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent.

Interested candidates should submit resume and three recommendations to Susan R. Jenkins, Merck & Co., Inc., P.O. Box 2000, Rahway, New Jersey, 07065.

Merck & Co., Inc.

DIRECTOR

RESEARCH & DEVELOPMENT

Progressive and innovative research lab in the Midwest invites applications for a Director of Research and Development. Qualified candidates will possess Ph.D. degree in biological/chemical sciences, immunology or molecular genetics. Previous PCR, gene probes and/or polystyrene latex particle experience is helpful. This full-time position will direct and supervise lab technologist's activities to develop new assays and tests for high volume production lab. Post-doctoral experience not required. Competitive salary commensurate with experience and education. Send resume to: Osborn Laboratories, Inc., c/o Personnel Solutions, Inc., 4501 College Blvd. Ste. 210, Leawood, KS 66211. EOE

Agricultural Biotechnology Research

Postdoctoral Associate

CIBA-GEIGY's Agricultural Division has an excellent opportunity for a Postdoctoral Associate in our genetic engineering and crop improvement program. Long recognized as one of the world's foremost producers of crop protection chemicals, we have made a major commitment to biotechnology research at our facility in Research Triangle Park, NC.

Candidates will have the opportunity to propose their own research projects in either basic research or technical areas. Topics of particular interest in the basic research area include the studies of genes involved in stress and pathogen responses, nitrogen metabolism and membrane transport. In the technical area, topics include the isolation of Arabidopsis genes by chromosome walking, T-DNA or transposon gene-tagging.

Individuals with plant molecular biology training or experience in Arabidopsis genetics, cell biology or tissue culture are encouraged to apply. You will find that CIBA-GEIGY offers exceptional career support and advancement opportunities, as well as a competitive salary and generous company-paid benefits. Please forward your resume, including three letters of professional reference, to: Dr. Mary-Dell Chilton, CIBA-GEIGY Corporation, Agricultural Division, P.O. Box 12237, Research Triangle Park, NC 27717. We Are An Equal Opportunity Employer M/F/H/V.
Vaccine Immunologist

ImmuLogic is a growing company with laboratories in Cambridge, Massachusetts and Palo Alto, California. We are dedicated to the creation of novel therapeutic and diagnostic products which modulate and monitor the human immune system. We employ state-of-the-art techniques and proprietary knowledge in immunology, biochemistry and molecular biology to develop products in the vaccine, allergy and autoimmune disease areas.

We are presently seeking a vaccine immunologist to add to the research staff in our Cambridge headquarters. This individual will play a key role in the development of vaccines for infectious diseases and conduct independent and collaborative research studies of in vivo and in vitro models of the immune response. Extensive experience in immunology with a background in animal models of antibody production, vaccine development, monoclonal antibody technology and cytotoxic T cell activation is desired. A Ph.D. with postdoctoral experience is required.

ImmuLogic provides an outstanding working environment and modern laboratory facilities. We have a first rate support network of academic advisors and collaborators, an active postdoctoral program, and we support and encourage the publication of important research findings. ImmuLogic offers competitive salary and benefits as well as equity participation through an incentive stock option program.

Please send curriculum vitae and list of publications to:
ImmuLogic Pharmaceutical Corporation
One Kendall Square, Building 600
Cambridge, MA 02139
Attn: Human Resources Department

An Equal Opportunity Employer

POSTDOCTORAL POSITION

Retinoid Molecular
& Developmental Biology

Hoffmann-La Roche, an international leader in pharmaceutical and medical research and development, is seeking a Postdoctoral Fellow to study the molecular mechanisms underlying retinoid-induced alterations in mammalian embryonic development. The successful candidate will apply recombinant DNA technology to isolate and characterize developmentally important, retinoid-responsive genes in mouse embryos, and will participate in ongoing research projects investigating the role of the nuclear retinoid-receptors in the process of cell differentiation. A background in molecular biology is required; experience in developmental biology is desirable.

For immediate consideration, please send your curriculum vitae including a list of publications, and the names of three references, to: Dr. Joseph F. Grippi, Roche Research Center, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

PEPTIDE CHEMISTS

MAGAININ SCIENCES INC. is a rapidly developing Pharmaceutical company. We are seeking scientists at all levels to expand our drug research and development efforts in one of our core technologies:

PEPTIDE CHEMISTRY

Opportunities are at the B.S., M.S., postdoctoral training and Ph.D. staff levels. Candidates should have interest in drug discovery and host defense peptides, good communication skills and training and research experience in:

(*) structure activity studies
(*) isolation, characterizations and synthesis of peptides.

Applicants should submit a curriculum vitae, description of research interests and salary requirements to: Dr. W. Lee Maloy, Director of Peptide Chemistry, Magainin Sciences Inc., 550 Pinetown Road, Fort Washington, PA 19034.

Magainin Sciences Inc. is located in new state-of-the-art facilities in suburban Philadelphia. We offer excellent salaries, benefits and the opportunity to change the future of therapeutics.
Postdoctoral Fellow & Senior Scientist Positions

The National Center for Biotechnology Information was recently established by Public Law 100-607 with responsibility to:

- Create automated systems for knowledge about molecular biology, biochemistry, and genetics;
- Perform basic research into advanced methods of analyzing and interpreting molecular biology information;
- Enable biotechnology researchers and medical care personnel to use the systems and methods developed; and
- Coordinate efforts to gather biotechnology information worldwide.

Researchers studying biosequence analysis, protein structure & function, and molecular evolution, as well as scientists with experience in database technology, software development, and algorithm design will be considered.

Staff Fellow and Senior Scientist positions are available for U.S. Citizens, Fogarty Visiting Fellow, Associate & Scientist positions for foreign nationals.

Salary ranges from $20,000 - $74,303.

CV and names of 3 references should be sent to:

Dr. David J. Lipman, M.D.
Director, NCBI
National Library of Medicine, NIH
Building 38A, 8N-803
8600 Rockville Pike
Bethesda, MD 20894

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

BIOLOGY RESEARCH SCIENTISTS

Drug Discovery

Fisons Pharmaceuticals, an international pharmaceutical research and development organization, announces 2 openings for Senior Research Scientists in the Biology Department at its U.S. research facility in Rochester, NY. Both positions offer challenging opportunities for highly motivated scientists wishing to join experienced multidisciplinary research teams dedicated to the discovery of innovative drugs.

Biochemical Pharmacologist

The successful candidate for this position will develop in vitro isolated tissue systems to characterize drug actions on receptor-effector coupling mechanisms. Primary responsibility includes evaluation of drugs potentially useful to treat neurological diseases. Qualified applicants must have a Ph.D. degree in Pharmacology or Biochemistry with at least 2 years of post-doctoral training and experience in using in vitro tissue assays.

Neurocardiologist/Behavioralist

Specific responsibilities include development of innovative procedures to evaluate drug effects on animal behavior and performance, as well as supervision of cardiovascular and neurological assessments of new drug candidates. The successful candidate will also contribute to interdisciplinary research into stroke and epilepsy. Competitive candidates will have a Ph.D. degree in Physiology, Pharmacology or Neuroscience and at least 5-10 years of relevant experience, as well as a record of research excellence. Other essential attributes include strong communication skills, supervisory expertise, and an ability to coordinate and expedite research documentation.

Research Scientist

Cystic Fibrosis Research Development Program

An independent staff position is available for an individual currently working in the area of protein structure or possibly a related area of molecular science. The position provides the opportunity to interact with members of a Research group working on a major children’s disease in which significant advances are currently being made at the molecular level.

New lab space and start up assistance are available. The HSC Research Institute is affiliated with the University of Toronto and academic cross appointments are possible. Our aim is to fill this position by the beginning of 1990. Please submit a resume and 3 letters of reference, quoting file #D071, to: Dr. Jack Riordan, Director, Cystic Fibrosis Research Development Program, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, Canada M5G 1X8.

Research Scientist

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**Research Scientist Bioseparation Applications**

At Millipore, we’ve brought the world valuable innovations for use in scientific and medical applications. Our continued efforts are sure to produce even more breakthroughs in the field of analysis and purification.

In this position, you will conduct product characterizations, competitive evaluation and application development studies on membrane-based chromatography products. Your specific responsibilities will include preparing experimental plans, performing laboratory analysis and experiments as well as compiling, analyzing and reporting experimental results. This position involves frequent contact with customers and Marketing in developing product applications.

Successful candidates will possess a PhD in Biochemistry, or closely related discipline and 2 or more years’ relevant experience including a high-level of expertise in HPLC and FPLC equipment, affinity and ion exchange chromatography, protein electrophoresis, quantitative protein assays and immunosassays. Excellent communications, organizational and written skills are necessary as is the ability to work independently.

Interested candidates should forward a resume, including salary requirements, to: Employment Department, Millipore Corporation, 80 Ashby Road, Bedford, MA 01730. An equal opportunity employer.

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**PROTEIN CHEMISTRY**

**RepliGen Corporation** is a leader in the application of Biotechnology to the health care market. We are currently developing an AIDS vaccine, AIDS therapeutic and diagnostic products, cancer therapies, and novel bioprocess reagents. 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 effort has created the following opportunity:

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**The Science Of Success**

**Krug International**

**Supervisor, Biotechnology Laboratories**

Ph.D. in cell biology with an engineering background or Ph.D. in biomedical engineering with extensive knowledge of cell biology required.

**Endocrinologist/Physiologist**

Ph.D. with research experience in fluid and electrolytes required. Research will focus on hormonal and/or biochemical mechanisms of acute and chronic volume changes, correlating these changes with physiological parameters.

**Pharmacokinetics Research Scientist**

Ph.D. or M.S. with significant experience in pharmacokinetics or related field. Experience in pharmacokinetic data analysis required; familiarity with statistical/mathematical methods of data evaluation helpful.

**Cell Biologist**

Ph.D. in cell biology with extensive knowledge of cell biology, familiarity with state-of-the-art tissue culture techniques, and knowledge of cell physiology and/or molecular biology required.

**Analytical Chemist**

Ph.D. in analytical chemistry and at least 2 years experience with GC/MS (preferably analysis of organics in air) required. Familiarity with LC/MS desirable.

All applicants must possess excellent written and verbal communication skills. Please submit letter of application, curriculum vitae, 3 letters of recommendation, and statement of salary history to: M. Fleming, Recruiter, RepliGen Corporation, One Kendall Square, Bldg. 700, Cambridge, MA 02139. An Equal Opportunity Employer.

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**Krug International**, the support contractor for the NASA Biomedical Laboratories at the Johnson Space Center, seeks outstanding applicants for the following positions to perform and/or direct space-flight-related research.

**Supervisor, Biotechnology Laboratories**

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**MOLECULAR IMMUNOLOGIST**

A tenure-acquiring faculty position at the assistant/associate professor level is available for an individual with M.D. and/or M.D./Ph.D. degrees. Applicants are encouraged to apply for this position. The research environment is multidisciplinary and focuses on molecular and cellular biology as well as on the molecular mechanisms underlying immune responses.

Applications are invited from qualified individuals with an established record of excellence in research and a strong commitment to teaching. Applicants should have a Ph.D. in immunology, molecular biology, or a related discipline. The application process includes a letter of application, curriculum vitae, a statement of research interests, and three letters of recommendation.

Applications are due by December 1, 1990.

**MOLECULAR PHARMACOLOGY**

Mayo Medical School invites applications for a tenure-track faculty position at the assistant professor level in the field of molecular pharmacology. The successful candidate will be expected to develop a competitive research program, teach at the undergraduate and graduate levels, and engage in outreach activities.

Applications are invited from qualified individuals with a strong record of research in molecular pharmacology. The application process includes a letter of application, curriculum vitae, a statement of research interests, and three letters of recommendation.

Applications are due by December 1, 1990.

**POSTDOCTORAL FELLOWSHIP**

Postdoctoral fellowships are available immediately in the Biological and Biomedical Sciences Division of the Biologic Cancer Research Center under the direction of Dr. J. G. Gore. Applicants should have a Ph.D. in molecular biology, cell biology, or related fields. The research environment is multidisciplinary and focuses on the molecular mechanisms underlying immune responses.

Applications are invited from qualified individuals with a strong record of research in molecular biology, or a related discipline. The application process includes a letter of application, curriculum vitae, a statement of research interests, and three letters of recommendation.

Applications are due by December 1, 1990.
**BIOCHEMIST/ENZYMOLIGIST**  
*Careers In A World Class R&D Community.*

Unilever Research U.S., Inc., the American research facility of Unilever, a leading worldwide consumer products company, has an immediate opening for a Biochemist in our Enzyme Technology Group located in Edgewater, New Jersey.

The selected candidate will contribute actively to our R&D programs directed toward the role of enzymes in household products. Qualified applicants should have a Ph.D. in Biochemistry or a related area of chemistry with experience in the analysis/characterization of enzymes and modern methods of protein purification. Additional experience in either protein stabilization or molecular modeling/x-ray crystallography would be beneficial.

As a member of the Unilever team, you will work with state-of-the-art instrumentation in an exciting, growth-oriented organization, and will also have the opportunity to interact with scientists associated with Unilever's European Research Laboratories. If you wish to be considered for this position, please send your resume to:

Mr. Jim Conti, Manager, Employee Relations.

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**DIRECTOR, IMMUNOASSAY RESEARCH**

Put your immunoassay research expertise to work in our challenging environment

IGEN, Inc., a dynamic and innovative leader in the field of biotechnology, continues to grow while developing new products from basic research. We currently seek a Director, Immunoassay Research to lead our progressive team of scientists.

Responsibilities include directing a multidisciplinary team of organic chemists, electrochemists and immunochemists in researching new, proprietary chemistries and formats using IGEN's Electrochemiluminescent technology.

Qualified candidates will have a Ph.D. in Immunochemistry or a related field and greater than five years experience beyond post-doctoral Immunoassay research on non-isotopic technology. Experience with chemiluminescence is a plus.

IGEN, Inc. offers a challenging work environment which fosters career growth and development, an excellent salary and a full benefits package. Send resume with salary history, in confidence to: IGEN, Inc., 1330 East Jefferson Street, Rockville, MD 20852, Attn: Human Resources Dept.

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**RESEARCH SCIENTISTS AND ASSOCIATES**

**PHARMACOLOGY**

Amgen is an innovative leader in the application of biotechnology for the discovery and development of human therapeutic products. Our continued progress in a number of research programs has resulted in a need for creative scientists at the Ph.D. and BS/MS levels in our Pharmacology Group.

**RESEARCH SCIENTISTS**  
Dept. #410

Candidates for Research Scientists positions must have a Ph.D. in Pharmacology or Biopharmaceutics and a minimum of two years' post-doctoral experience in the absorption, distribution, metabolism and excretion of drugs (preferably polypeptides and proteins). Previous experience in computerized pharmacokinetics modeling programs and knowledge of protein and peptide separation techniques are essential. Previous industrial experience is highly desirable.

**RESEARCH ASSOCIATES**  
Dept. #411

Candidates for Research Associates positions should have a BS or MS in Pharmacology or a related discipline and in vivo research experience including small animal surgery and blood and tissue sampling. Experience in radiotracer and immunoassay techniques, statistical analysis of data and familiarity with the use of computers in recording and analyzing data are desirable.

Amgen offers an excellent compensation and benefits package as well as the unique opportunity to contribute to stimulating and challenging research programs on the leading edge of biotechnology. If you have the necessary qualifications and would like to be a part of a company that places a high priority on its human resources, please send a C.V., in confidence, to:

AMGEN, INC.  
Recruitment, (please specify Dept. #)  
1900 Oak Terrace Lane  
Thousand Oaks  
CA 91320

Equal Opportunity Employer
POSTDOCTORAL FELLOW POSITION available immediately to study the immunobiology and transformed phenotype of oncogene-induced macrophage tumor cell lines. A Ph.D. in immunology and experience with tissue culture techniques is required. The individual is expected to be trained in classical immunology and is motivated to learn modern molecular genetics techniques. Send curriculum vitae, a statement of career goals, and three letters of recommendation to: Dr. Michael Cole, Department of Biology, Princeton University, Princeton, NJ 08544.

POSTDOCTORAL FELLOW RESEARCH POSITION AVAILABLE IMMEDIATELY TO STUDY EPITHELIAL BIOLOGY. The laboratory has several projects in progress investigating (i) development and maintenance of the kidney and its regulatory mechanisms, and (ii) genetics of human disease. Send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. William J. Detrick, LSUMC, 1901 Perdido Street, Galveston, TX 77550.

POSTDOCTORAL POSITION in MOLECULAR BIOLOGY AVAILABLE IMMEDIATELY TO STUDY THE IMMUNOBIOLOGY AND TRANSFORMED PHENOTYPE OF ONCOGENE-INDUCED MACROPHAGE TUMOR CELL LINES. A PH.D. IN IMMUNOLOGY AND EXPERIENCE WITH TISSUE CULTURE TECHNIQUES IS REQUIRED. THE INDIVIDUAL IS EXPECTED TO BE TRAINED IN CLASSICAL IMMUNOLOGY AND IS MOTIVATED TO LEARN MODERN MOLECULAR GENETICS TECHNIQUES. SEND CURRICULUM VITAE, A STATEMENT OF CAREER GOALS, AND THREE LETTERS OF RECOMMENDATION TO: DR. MICHAEL COLE, DEPARTMENT OF BIOLOGY, PRINCETON UNIVERSITY, PRINCETON, NJ 08544.
DNA Synthesis Chemist

The Chemical Sciences Department of Monsanto's Central Research Laboratories has an immediate opening for a Biochemist or Chemist at the B.S./M.S. level.

The position involves synthesis of oligonucleotides by solid-phase methods and purification of the resulting products by HPLC. Experience with HPLC methods-development and troubleshooting is essential. Experience in DNA synthesis is preferred, but peptide synthesis would also provide a good background.

The successful candidate will have responsibility for the operation of a Pharmacia Gene Assembler and two Waters HPLC units, one for an ion exchange, the other for reverse phase. The HPLC units are controlled by an IBM personal computer. Large-scale DNA synthesis (10 micromoles) will be common, as will modifications to standard protocols to incorporate unusual DNA bases. DNA prepared must be of the highest purity for further chemical and physical studies.

Qualified applicants should submit resumes and the names of references to: Dr. Jim Bashkin; MONSENT COMPANY: 800 N. Lindbergh Blvd.; Mail Zone 38; St. Louis, MO 63167. Monsanto company is an Equal Opportunity Employer M/F/H/V.

Careers for people with ideas
Monsanto

ASSISTANT RESEARCH INVESTIGATOR
Radiopharmaceuticals

Squibb Corporation, a Fortune 200 company, is an internationally recognized leader in the research, marketing and manufacturing of innovative pharmaceuticals.

Currently, we have a position available at our New Brunswick, NJ facility for an individual to supervise the acquisition and management of radiopharmaceutical data. You will also supervise two biological technicians and be responsible for laboratory administration.

Our successful candidate will have an MS in Biology and 1 to 3 years experience or a BS in Biology with 3 to 5 years experience. Exposure to small animal surgery, computers and radioisotopes is preferred. Familiarity with computer spread sheets and regulations for biological and radioactive materials would be a plus.

We offer a competitive compensation package and participation in our comprehensive benefits program. Interested candidates should submit their resume including salary history to: Squibb Technical Operations, Dept. LH/04189, P.O. Box 191, New Brunswick, NJ 08903. An equal opportunity employer.

POST-DOCTORATE EXPERIMENTAL PSYCHOLOGISTS / BEHAVIORAL PHARMACOLOGISTS

Two Industrial Post-Doctoral Fellowships for research in drug discovery program in cognition function and anti-psychotics. This will combine behavioral testing and central nervous system pharmacology. This multidisciplinary research program is directed towards identifying drugs to enhance learning and memory processes for Alzheimer’s Disease and other types of cognitive deficiencies as well as drugs to treat psychotic behavior. Candidates should have a Ph.D and appropriate behavioral pharmacology or experimental psychology training in learning and memory processes.

Du Pont provides competitive compensation and relocation benefits. Our mid-Atlantic location offers a wide range of academic, cultural, and recreational activities. Interested candidates should send their resumes and references to: Professional Staffing, Employee Relations Dept., Room X-51718, Du Pont Company, Wilmington, DE 19898

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U.S.Citizenship or Permanent Visa Required and meet other appropriate IRCA requirements
RESEARCH SPECIALIST

Ph.D. in basic science with emphasis on geriatrics, prefer 3 years of experience in recombinant DNA methodology and mRNA isolation plus experience with in situ hybridization and mammalian cell culture techniques. Responsibilities include investigation of oncogene expression and other hormone-induced cancers. Initial studies will include expression and possible rearrangements of various oncogenes in tumors and tumor cell lines. Applicants should be focused on work in aging endocrine glands. Apply to: Ernest L. Mazzaferril, M.D., Professor and Chairman, Department of Internal Medicine, University of California, 1650 Upham Drive, Columbus, OH 43210. Affirmative Action/Equal Opportunity Employer.

SENIOR RESEARCH ASSOCIATE for university in central Ohio to develop and coordinate laboratory research in isolation, structural elucidation and synthesis of antitumor natural products; supervise staff consisting of postdoctoral and graduate researchers and technicians; design experiments; analyze and evaluate data; author scientific publications and present research papers at scientific meetings. No experience required in the above-described job but applicants will qualify with Ph.D. in medicinal chemistry and 4 years of research experience in medicinal chemistry (at least three of the four years in structural determination and stereocontrolled synthesis of antitumor natural products and in operating superconducting NMR (nuclear magnetic resonance) spectrometer; at least one of the four years of research experience should be in medicinal chemistry at the postdoctoral level with boiogenic chemistry emphasis and using radioisotope techniques). Forty hours per week; 8:00 a.m. to 5:00 p.m. 52-week period. Qualified applicants should reply by resume (no calls) to: C. Bussard, J0#1197616, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

U.S. ARMY CHEMICAL RESEARCH, DEVELOPMENT AND ENGINEERING CENTER (CRDEC)

TECHNICAL DIRECTOR

SENIOR EXECUTIVE SERVICE

SALARY RANGE: $68,700 to $80,700

The chemical research, development, and engineering center is seeking a senior-level executive with the demonstrated ability to plan and direct the activities of a complex technical and scientific organization involved in chemical-biological defense, and chemical retaliatory capability programs. As the senior civilian at the CRDEC, the Technical Director exercises technical authority over the execution of center missions and shares responsibility for the planning, direction, integration, and evaluation of contracts and programs. Applicants must hold the Degree of Doctor of Science from a University of comparable standing and, in any of the following fields: chemistry, chemical biology, or biochemistry; molecular biology, biophysics, or biochemistry; or a related field. Applicants should have extensive experience in the development and evaluation of advanced technology and in the management of large technical projects. Full information can be obtained by writing to: M. Jamar, The New Research Associate Position, Army Research Institute for the Behavioral and Social Sciences, Suite 750, 2001 K Street, N.W., Washington, D.C. 20006. Applicants are encouraged to attend the Symposium on the Status of the Behavioral and Social Sciences in National Security. The Symposium will be held on October 16, 17, and 18, 1989, at the Woodrow Wilson Center, Washington, D.C. Further information may be obtained by calling (202) 638-1266.
Pfizer Central Research seeks an experienced Scientist/Manager for the Directorship of the Experimental Medicine group within Clinical Research. This newly created position will provide a critical interface between the Drug Discovery Laboratory and the Clinical Research arena.

Responsibilities include participation in scientific decision making, management and development of a group consisting currently of five MDs, accompanying CRAs and support staff, and the development of research liaisons with various specialized academic medical centers. The Director will work closely with the Director of Clinical Pharmacology and report to a Group Director.

Qualifications:
Candidates should hold an MD and preferably a PhD as well, plus an additional five to ten years of experience. Both clinical and laboratory research experience are highly desirable.

Ideal candidates will have training in the evaluation of drugs for psychiatric or metabolism/endocrine disorders, although other specialities will be considered. Management experience with research teams and excellent interpersonal skills are essential.

Perquisites:
Pfizer Central Research offers a state-of-the-art research environment on the coast of southeastern Connecticut. Compensation for the directorship is commensurate with a senior level management position and includes a generous benefits/relocation package. Please reply in confidence to: David G. Burnett, PhD, Pfizer Central Research, Eastern Point Road, Groton, Connecticut 06340. An equal opportunity employer.

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MATRIX BIOSYSTEMS OPPORTUNITIES

MATRIX BIOSYSTEMS is a rapidly expanding San Francisco Bay area biotechnology company focused on the development of diagnostic assays and therapeutics for connective tissue disorders. We take pride in the high caliber of our scientific staff, and our collaboration with major research institutions in Europe and the United States. Matrix Biosystems has created the following opportunities:

- **Director of Research**
  We are looking for a candidate with an outstanding record of scientific accomplishment as well as several years of experience supervising a research team in an industrial environment. This individual must have an extensive research background in the matrix biochemistry of cartilage and bone. Qualified applicants should have a Ph.D. in biochemistry or a related field, and five plus years relevant experience.

- **Director of Development**
  We are seeking an individual with a proven track record of success in building and leading monoclonal based assay development teams. Qualified candidates should have a Ph.D. and have held a similar level position in the industry. A background in connective tissue research is preferred.

- **Protein Chemists**
  Opportunities exist for those with experience in the field of connective tissue research. These positions require experience with isolation, purification, and characterization of cartilage/bone specific macromolecules. We have openings at the B.S., M.S., and Ph.D. levels.

- **Monoclonal Antibody Specialists**
  We are looking for individuals with experience in developing and testing monoclonal antibodies. Familiarity with an up-to-date hybridoma development techniques, antigen presentation, immunoassay creation, and immunochemistry is required. Positions are available for scientists with B.S., M.S., and Ph.D. degrees.

MATRIX BIOSYSTEMS offers competitive salaries and equity compensation, as well as opportunities for personal and professional growth. For confidential consideration, please send your curriculum vitae to MATRIX BIOSYSTEMS, Dr. Saeid Seyedin, c/o Avalon Ventures, 1020 Prospect Street, Suite 405, LaJolla, CA 92037.
Gilson fraction collectors have always been reliable. Our newest offers 98% problem-free performance.

Whether you need simple or sophisticated collection techniques, the one thing you need is a collector that performs day-in and day-out. Without jamming. Without breaking down. That's the kind of reliability built into every Gilson fraction collector... from the very first in 1957 to the very latest introduced in 1986.

**Stationary rack system is one of our secrets to problem-free performance.**

Many collectors have rotating carousel racks. Some of our earliest models did, too. But we soon recognized the advantages of a stationary rack. With fewer moving parts, the chance of mechanical problems is greatly reduced. The FC 203, since its introduction three years ago, has achieved a problem-free performance record of 98%. The stationary rack system is just one of the reasons why.

**Built for long-term use... inside and out.**

To assure optimal performance over time, internal drive components are designed for long-term use—even in the cold room. Critical components are metal, rather than plastic, for long-lasting operation.

And, the exteriors of Gilson fraction collectors are durable, too. For example, the FC 203 features a chemically-resistant molded case and keypad to protect the unit inside and out from spills.

Day-in and day-out convenience, too.

We also build Gilson fraction collectors for easy installation and use. It starts with compact design. The 202 has the largest capacity of any collector—540 tubes. Yet, it measures only 20 inches wide by 17 inches deep. And the FC 203 takes up only about a square foot of bench space.

Gilson fraction collectors can be used with any HPLC or LC system—ours or other manufacturers'. And three of the collectors can control peripherals such as pumps and chart recorders.

**Choose from five different models:**

- **FC 80 and FC 100 microfractionators:** Proven performers for simple time and drop collection. Many of these units have been in use for more than 15 years. Racks hold 80 or 100 tubes.
- **FC 203:** Collects fractions by time or drop for simple analyses; peak and time windows enable more sophisticated applications. An affordable multi-mode unit capable of collecting up to 128 fractions.
- **201 and 202:** With 15 operating modes, 15 rack options and capacities up to 540 tubes, no other fraction collector does more or handles more.

**Contact us for free literature today.**

To learn more about Gilson fraction collectors and how they outperform others, simply mark the reader service number below. Or call us toll-free in the U.S. at 800-445-7667.

(In Wisconsin, call 608-836-1551.)