

RECRUTEMENT

Pour tous renseignements sur des publicités dans le *Courrier CERN*, les dates de publication ou les dates limites, veuillez nous contacter:
Institute of Physics Publishing, Dirac House, Temple Back, Bristol BS1 6BE, UK. Tel: +44 117 930 1026, Fax: +44 117 930 1178

Tarifs par centimètre/colonne: Monochrome £30, 2-couleur £36, 4-couleur £38.

Associate Scientist

• Beams Division •

The Beams Division of Fermi National Accelerator Laboratory (Fermilab) has an excellent opportunity for an Associate Scientist. The successful candidate will be focused on applications of accelerator physics required by the Fermilab research program but will have some opportunity for self-directed research. The beam physics applications include contributing to machine operation, improvements or diagnostics. The candidate will be expected to perform beam studies, coupled with advanced accelerator calculations aimed at improving machine performance and versatility.

The Associate Scientist position carries an initial three-year appointment with a possible extension and consideration for a regular position on the Fermilab scientific staff. A Ph.D. in Physics (or equivalent) is required and two or three years of relevant postdoctoral experience. Excellent communication skills and leadership potential are also required.

Located 40 miles west of downtown Chicago, on a campus-like setting, Fermilab provides competitive salaries and exceptional benefits, including medical/dental/life, tuition reimbursement, fitness center, on-site daycare, and access to our 6,800 acre nature preserve. Applicants are requested to forward their curriculum vitae and a list of at least three references to:



Fermilab

Dr. John Marriner
Fermi National Accelerator Laboratory
P. O. Box 500, M.S. 306
Batavia, IL 60510-0500
U.S.A.

A U.S. Department of Energy National Laboratory. Fermilab is an Equal Opportunity/Affirmative Action Employer M/F/D/V

The Faculty of Science

(mathematisch-naturwissenschaftliche Fakultät)

of the University of Zurich

invites applications for a full

Professorship in Theoretical Astrophysics

in the Institute of theoretical physics. The new professor will establish an active research program in astrophysics or cosmology. She or he will find stimulating environment with important experimental activity in solar and stellar high energy astrophysics and dark matter searches at ETH and PSI. Collaboration with these groups and other theorists is expected.

The new professor will participate in the teaching of theoretical physics at all levels and supervise diploma and PhD students.

Candidates with a recognised scientific record in theoretical astrophysics or cosmology are asked to send their curriculum vitae, list of publications, and a summary of their research interests to the Dean of the Faculty of Science (Mathematisch-naturwissenschaftliche Fakultät), Prof. Dr. K. Brassel, University of Zurich, Winterthurerstrasse 190, CH-8057 Zurich by June 30, 2000.

Please visit our website at
<http://www-theorie.physik.unizh.ch>.



The University encourages female candidates to apply with a view towards increasing the proportion of female professors

Postdoctoral Research Position The Johns Hopkins University

A postdoctoral research position is available immediately with the HEP Group at the Johns Hopkins University. It involves participation in the hardware and software of the CMS detector for the LHC, concentrating on the pixel detector system including development and testing of pixel sensors and optical links, and associated software. Faculty members involved in this project are C.Y. Chien, B. Barnett, and M. Swartz. Detector, electronics and software experience will be required. This position will be based in Baltimore in the next few years.

Applicants should send a CV, bibliography, a statement of research interests, and three letters of reference to: **Prof. Chih-Yung Chien, or Prof. Morris Swartz, Department of Physics and Astronomy, Johns Hopkins University, 3400 North Charles St., Baltimore, MD 21218, USA.**

(TEL: 1-410-516-7359, FAX: 1-410-516-8664, E-mail: chien@jhu.edu)

Review of applications will begin in April 2000, and will continue until the position is filled.

THE UNIVERSITY OF MINNESOTA

Experimental HEP Group has several open postdoctoral positions.

The Minnesota HEP group has major responsibilities in CMS in both the ECAL and HCAL. We are also responsible for data acquisition and physics analysis on the BNL g-2 experiment that will measure the contribution of W and Z to the anomalous magnetic moment of the muon and set stringent limits on the Standard Model.

As part of our program in precision constants, we are preparing an approved experiment to directly measure the muon neutrino mass in the g-2 ring, measuring the muon lifetime to 2 ps at PSI, and in the proposal stages of a dedicated muon electric dipole moment measurement.

Professor Priscilla Cushman (prisca@mnhep.hep.umn.edu)
Dept. of Physics and Astronomy, University of Minnesota,
116 Church St. SE, Minneapolis, MN 55455, USA

CERN COURIER SUMMER RECRUITMENT DEADLINES

Booking deadline: Friday 16 June **Artwork deadline:** Monday 19 June

Contact Andrew Hardie

Tel. +44 (0) 117 9301090 **Fax** +44 (0) 117 9301178

E-mail andrew.hardie@iopublishing.co.uk



Thomas Jefferson National Accelerator Facility

MECHANICAL PROJECT ENGINEER

(Position #AR3223)

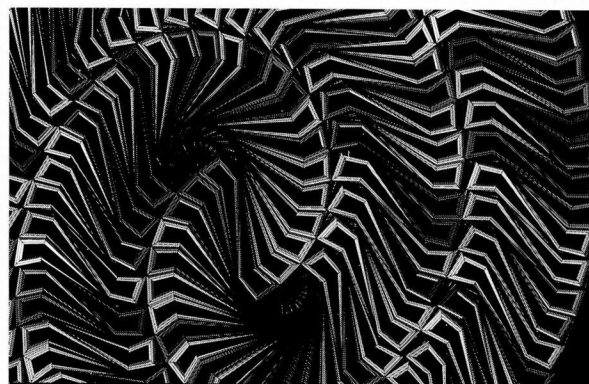
Jefferson Lab, located in Newport News, VA, is a world-class scientific laboratory centered around a high-intensity, continuous wave electron beam, which provides a unique capability for nuclear physics research. The lab is managed for the Department of Energy by the Southeastern Universities Research Association. We are located near Colonial Williamsburg, the Chesapeake Bay and the resort area of Virginia Beach.

Currently we have an excellent opportunity for a Mechanical Project Engineer. The candidate will provide mechanical engineering support for the Accelerator Division, serving as a project engineer on a variety of assigned tasks. He/she will take concepts from physicists and other engineers and turn them into working designs. The incumbent must be able to work independently on involved projects and be able to solve complex problems where there are limited precedents available. He/she may work with one or two designers on individual designs or be responsible for leading a group of several engineers and designers on larger projects. He/she will be responsible for the design, procurement, and fabrication of parts, installation, and commissioning, and all documentation needed to support and maintain said designs. Possible engineering duties may be in vacuum, pressure vessel, cryogenic, magnet, support structures, and water system designs as well as heat transfer and vibration analysis.

The minimum qualifications for this position are a BS or MS in Engineering with fifteen years of design experience related to particle accelerators. Familiarity with multiple aspects of accelerator design and theory, including injector design, ultra high vacuum, cryogenics, accelerator diagnostics, magnets, alignment, and superconducting radio frequency cavities and cryostat design is a must. The candidate must also be an expert in one or more of the following: injector design, ultra high vacuum, accelerator diagnostics, materials, welding, and superconducting radio frequency cavities and cryostat design. Supervisory and/or project management experience is also required. The incumbent must have a demonstrated ability to do independent research and proven analytical skills. Good communications skills and the ability to interact constructively with physicists, engineers, designers, technicians and procurement personnel are required.

The starting annual salary range will be \$68,600-\$108,400. For a higher classification, the salary range is \$83,100-\$131,300. For prompt consideration, please send resume and salary history to: Jefferson Lab, Attn: Employment Manager, 12000 Jefferson Ave., Newport News, VA 23606. Please specify position number and job title when applying. Further information and complete descriptions of this and other positions can be found by visiting our web site at <http://www.jlab.org/jobline.html> or by calling our jobline at 757-269-7359.

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WANTED: TECHNOLOGY ASSISTANT TO CEO

Here is your chance to get involved with the latest top of the line technology. Work directly with Stephen Wolfram—scientist, entrepreneur, and inventor—to use and develop your knowledge of diverse high-end technologies. Broad experience with computers, software and devices required, as well as interest in the latest technology trends. Systems-level experience with Linux and Windows NT desirable. Contact us by filling out a web employment application at www.wolfram.com/company/opportunities/ or by sending email to resumes@wolfram.com.

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RESEARCH ASSOCIATE POSITION

Experimental High Energy Physics Carnegie Mellon University

The Department of Physics at Carnegie Mellon University invites applications for a postdoctoral Research Associate position in experimental high energy physics. We are looking for an outstanding individual interested in hadron collider physics at the Fermilab Tevatron. For more information regarding this position please contact Professor Manfred Paulini (paulini@cmphys.phys.cmu.edu) and Professor James Russ (russ@cmphys.phys.cmu.edu). Applicants should submit a curriculum vitae and arrange to have three letters of recommendation sent directly to Professor Manfred Paulini and Professor James Russ, Department of Physics, Carnegie Mellon University, Pittsburgh, PA 15213, USA. The vitae and recommendations can be sent either by normal or electronic mail. The position is available until filled. We will begin to consider applications on June 30, 2000.

Carnegie Mellon is an equal opportunity/affirmative action employer.

Professorship (C-4) in Theoretical Physics

The Department of Physics invites applications for a professorship of Theoretical Physics (succession H. Satz) in the field of Elementary Particle Theory. The appointment will be made for September 1, 2001.

Candidates should have a record of successful research on the basic physical questions of the field. They should complement the Bielefeld research program in this field and be willing to cooperate with the existing groups (quantum field theory, lattice field theory, statistical aspects of particle physics).

The successful applicant will participate in the general teaching duties of the department, in particular in theoretical physics. It is therefore expected that candidates have the necessary interest and pedagogic skill for this.

Prerequisites are a doctorate in physics and "Habilitation" of sufficient proof of scientific achievements.

The University of Bielefeld aims to increase the fraction of women on its staff and therefore invites in particular applications from qualified women; in case of equal qualifications, they will be given preference.

Applications should be sent until August 31, 2000, to

Dekan der Fakultät für Physik,
Universität Bielefeld, Postfach 100131,
D-33501 Bielefeld, Germany.



DESY is a physics research laboratory with 1400 employees and more than 3000 guest scientists from Germany and abroad. The scientific programme includes research in particle physics and synchrotron radiation.

DESY invites applications for the position of an

Experimental Physicist

The candidate should be highly qualified to take a leading role in the research program of the ZEUS experiment at the electron-proton storage ring HERA. The person should take considerable responsibility in physics analysis, participate in the operation and upgrade of the detector and participate in shaping the future research program of the laboratory.

Applicants should have a Ph.D. in physics, several years of experience in experimental particle physics, and should be active in research in this field. They should have an established record in data analysis and in hardware and software for particle physics detectors. Excellent communication skills and the ability to lead large collaborative efforts are essential.

The appointment is to a permanent position with a salary according to federal tariffs (BAT Ib).

Applicants with a physical handicap will be given preference over other candidates when they have equal qualifications. Women especially are encouraged to apply.

Letters of application including curriculum vitae, list of publications and the names of three referees should be sent before July, 24th 2000, Code-No. 42/00, to

DESY, Personalabteilung
Notkestraße 85, D-22607 Hamburg
Tel. 040/89984488

UNIVERSITY OF COPENHAGEN NIELS BOHR INSTITUTE FOR ASTRONOMY, PHYSICS, AND GEOPHYSICS

Postdoctoral position in Experimental Particle Physics

A postdoctoral position is available from September 1, 2000 with the Experimental Particle Physics group at the Niels Bohr Institute, University of Copenhagen. The position is for two years with a possibility of prolongation, however, not exceeding five years.

The particle physics group is located at the Niels Bohr Institute, University of Copenhagen, and its experiments ALEPH and ATLAS are performed at CERN and HERA-B at DESY.

It is expected that the appointed candidate will participate in the ATLAS activities. More specific she/he should contribute to the physics preparation, the second level trigger and the GRID involvement.

The candidate will be based in Copenhagen. The candidate must have documented experimental research at an international level and have documented abilities in the construction of complex experiments. The position also demands participation in the university teaching program.

Salary is set by agreement between the Ministry of Finance and AC (The Danish Confederation of Professional Associations). The annual salary depends on seniority, and the scale ends at a yearly salary of DKK 313.808 after contributions to the pension scheme and including a seniority independent yearly increment of DKK 39.746.

Deadline for applications is July 31, 2000, at noon.

Further information can be obtained from: **professors John Renner Hansen (renner@nbi.dk) and Jørn Dines Hansen (dines@nbi.dk)**

Applications should be sent to:

**Professor Jørn Dines Hansen
The Niels Bohr Institute
Blegdamsvej 17, DK-2100 Copenhagen
Denmark.**

LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

C3-PROFESSUR FÜR THEORETISCHE PHYSIK

The Faculty of Physics has an immediate vacancy for a Professor (C3) for Theoretical Physics

Candidates with a recognized research record in particle physics phenomenology (preferred fields: dynamics of electroweak interactions and mass generation, symmetries, QCD) are invited to apply for this position. The future professor will be in charge of research and teaching. Collaboration with the other research groups of the department is required, especially with the existing research group in experimental high energy physics.

The qualification requirements are: Ph.D. in physics and habilitation (or an equivalent qualification), less than 52 years of age at the moment of nomination.

Applications (with a curriculum vitae, copies of certificates and a list of publications) should be sent by 30 June 2000 to

**Dekanat der Fakultät für Physik,
Ludwig-Maximilians-Universität München,
Schellingstr. 4, 80799 München**

Opportunities in Information Technology at CERN



The Information Technology Division of CERN is responsible for providing the general computing infrastructure of the laboratory, as well as services oriented towards the needs of the physics and engineering communities. The Division currently has a number of vacancies for support and development work in the following areas:

- Database management systems, related tools and applications;
- Internet applications; the Windows environment; related tools and applications including for the physics community;
- Computing and networking infrastructure of the laboratory, including services for desktops, the provision of high throughput computing clusters for physics data analysis, and mass storage management.

Depending on the area of assignment, the activities involved will include tasks such as software development and maintenance, selection of hardware and software products, operation of services, interactions with the user community and outside laboratories, supervision of service contracts.

Qualifications Required: a university degree or equivalent in computer science, physics, or a related field and up to 5 years' experience in Information Technology. Knowledge and practical experience in one or more of the following technologies: Relational and/or Object database management systems, Internet applications and technologies, systems management using Unix, Windows NT or Windows 2000, object-oriented programming, preferably in C++ or Java, network management, large-scale data management, development of High Energy Physics applications.

For more information see 'Staff Employment' at <http://cern.ch/jobs>

SUBMIT YOUR ABSTRACT NOW!

* EOS/SPIE European Biomedical
Optics Week - EBiOS 2000

The Free University of Amsterdam
The Netherlands
4-8 July 2000

- Clinical Technologies
- Tissue Science, Structure & Diagnostics
- Microscopic & Spectral Imaging
- Biomolecular Engineering

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website at <http://www.europto.org>

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EOS - The European Optics Society
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RESEARCH ASSOCIATE

Rutherford Appleton Laboratory, Oxfordshire

The Particle Physics Department of CLRC (Rutherford Appleton Laboratory) has two vacancies for real-time programmers. Both of these posts are in technically challenging projects and demand a high degree of initiative and innovation. The new posts offer the opportunity to be involved in a major particle physics experiment currently under construction, and would be suitable either for a real-time programmer or for a particle physicist with a strong interest in real-time computing. Both posts will be based at RAL, but working closely with physicists, programmers and engineers from RAL and UK universities, in collaboration with staff from overseas institutes. A willingness to travel and an ability to communicate effectively and to operate in a large multinational collaboration are essential.

Post 1 (VN1929) is to develop trigger software for the ATLAS experiment being built for the Large Hadron Collider in CERN. ATLAS plans a three-level trigger system, and the RAL group is contributing to the first two levels. Level-1 requires fast purpose-built processors, while Level-2 mainly uses commodity processors and networks but with some custom hardware and software to meet the challenging real-time requirements. The person appointed will work on software associated with these two trigger levels.

Post 2 (VN1928) is to develop data acquisition software for the MINOS long-baseline neutrino oscillation experiment. The experiment consists of massive calorimeters at Fermilab and the Soudan mine. The RAL Particle Physics group, in collaboration with the RAL electronics division, has responsibility for production of the data acquisition system. The person appointed will join the team designing and implementing the real-time system programmes that gather and manipulate the data.

Further information on the ATLAS post is available from Dr F. Wickens Tel +44 1235 445737 f.j.wickens@rl.ac.uk or Dr C.N.P. Gee Tel +44 1235 446244 c.n.p.gee@rl.ac.uk, and on the MINOS post from Dr. Peter Litchfield (+44) 01235 446265, e-mail p.litchfield@rl.ac.uk. Information on the experiments and RAL Particle Physics department is available on the World Wide Web at <http://hepweb.rl.ac.uk>

Both posts are for fixed term periods (Post 1 - 3 Years and Post 2 - 4 Years). The salary range is between £18620 and £26600. Progression within the salary range is dependent upon performance. A non-contributory pension scheme and a generous leave allowance are also offered. Application forms can be obtained from: Recruitment Office, Human Resources Division, Rutherford Appleton Laboratory, Chilton, Didcot, Oxfordshire, OX11 0QX. Telephone (01235) 445435 (answephone) or email recruit@rl.ac.uk quoting reference VN1929 or VN1928. More information about CLRC is available from CLRC's World Wide Web pages at <http://www.cclrc.ac.uk>

All applications must be returned by 22 June 2000. The CCLRC is committed to Equal Opportunities and to achieving the Investors In People standard. A no smoking policy is in operation.



COUNCIL FOR THE CENTRAL LABORATORY
OF THE RESEARCH COUNCILS

INGENIEUR ELECTRONICIEN CONCEPTION/DEVELOPPEMENT REGION PARISIENNE

Institut de recherche en physique nucléaire et accélérateurs de particules.

Au sein du groupe (16 personnes) d'électronique de la division Accélérateur, vous assurerez la conception, le développement de diagnostics de faisceaux et de système HF.

Vous utiliserez des langages de modélisation et de simulation ainsi que des langages de programmation. Connaissances approfondies en électronique analogique, physique, mathématiques, traitement du signal (numériques et analogiques). Une connaissance des accélérateurs serait appréciée. Formation ingénieur grande école, doctorat, maîtrisez l'anglais (nombreuses collaborations internationales).

Rigoureux(se) sens du contact et du travail en équipe.

Envoyer lettre et CV à

Mme GALIN Service recrutement.IPN 91406 ORSAY CEDEX

RESEARCH ASSOCIATE POSITION HIGH ENERGY PHYSICS THE OHIO STATE UNIVERSITY

The experimental high energy physics group at The Ohio State University invites applications for two postdoctoral research associate positions, one with our CLEO program, the other with ATLAS. In the CLEO program, we are involved in both the ongoing data analysis effort in heavy flavor physics and the CLEO III upgrade program where we have major responsibilities for the silicon vertex detector and the data acquisition system. For the ATLAS program, we are involved in the design and prototyping of the optical electronics and packaging for the pixel detector.

Interested candidates should send a letter of application, vitae, list of publications, and three letters of recommendation to:

Professor R. Kass, The Ohio State University, Department of Physics, 174 W. 18th Ave, Columbus, Ohio 43210-1106, or e-mail: kass@ohstpy.mps.ohio-state.edu.

The Ohio State University is an equal opportunity employer and we actively encourage applications from women and minority candidates.

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Reach a global audience immediately with *CERN Courier's* Internet options.

Recruitment advertisements are on the Web within 24 hours of booking and are then sent to e-mail subscribers.

Call +44 (0)117 9301090 for more details

California Institute of Technology Faculty Position in Experimental High Energy Physics

The Division of Physics, Mathematics and Astronomy at Caltech invites applications from physicists doing experimental high energy physics for a possible tenure-track position at the assistant professor level, although candidates seeking tenured professorial positions will also be considered.

The initial term of appointment for a non-tenured position is normally four years and appointment is contingent upon completion of the Ph.D. degree. We are seeking outstanding experimentalists who have the potential to become leaders in the field.

The current experimental high energy physics program at Caltech incorporates several efforts. Accelerator-based research includes B physics at CLEO and BaBar, electroweak and new particle searches with L3, and substantial participation in the new MINOS and CMS experiments under construction. Non-accelerator research is currently centered on the MACRO experiment.

Applications should include a curriculum vitae, a list of papers published and submitted (with refereed papers indicated), and a brief essay describing the applicant's current research interests. Applicants are also requested to have at least three letters of reference sent to the address below.

Applications should be sent to Professor G. Neugebauer, c/o Staffing Secretary, MC 200-36, California Institute of Technology, Pasadena, CA 91125, USA.

Deadline for applications is July 1, 2000.

Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans and Disabled Persons are encouraged to apply.



Exhibit:

November 28-30

**Materials Development
Characterization Methods
Process Technology**

For additional meeting information, visit the MRS Web site at www.mrs.org or contact:



Member Services
Materials Research Society
506 Keystone Drive
Warrendale, PA 15086-7573
Tel 724-779-3003
Fax 724-779-8313
E-mail: info@mrs.org

Abstract Deadlines — In fairness to all potential authors, late abstracts will not be accepted.

June 5, 2000: for abstracts sent via fax or mail • June 19, 2000: for abstracts sent via the MRS Web site

2000 MRS FALL MEETING SYMPOSIA

Cluster 1: Nano/Microstructured Materials

- A: Nanotubes and Related Materials
- B: Structure and Mechanical Properties of Nanophase Materials—Theory and Computer Simulations vs Experiment
- C: Anisotropic Nanoparticles—Synthesis, Characterization, and Applications
- D: Nanolithographic and Lithographic Methods for Nanofabrication—From Ultralarge-Scale Integration to Photonics to Molecular Electronics
- E: Microphotonics—Materials, Physics, and Applications
- F: Nano- and Microcrystalline Semiconductor Materials and Structures

Cluster 2: Semiconductors

- G: GaN and Related Alloys
- H: Silicon Carbide—Materials, Processing, and Devices
- I: Semiconductor Spintronics—Physics, Materials, and Applications
- J: Semiconductor Quantum Dots

Cluster 3: Metals

- K: Quasicrystals
- L: Supercooled Liquid, Bulk Glassy, and Nanocrystalline States of Alloys
- M: Thermal Barrier Coatings
- N: High-Temperature Ordered Intermetallic Alloys IX

Cluster 4: Materials Processing and Analysis

- O: Ion Beam Synthesis and Processing of Advanced Materials
- P: Growth, Evolution, and Properties of Surfaces, Thin Films, and Self-Organized Structures
- Q: Fundamentals of Nanoindentation and Nanotribology II
- R: Microstructural Processes in Irradiated Materials
- S: Applied Magnetic Field Effects on Materials Behavior
- T: Dynamics in Small Confining Systems VI
- U: Ultrafast Nonlinear Optical Phenomena
- V: Low-Vacuum SEM/ESEM in Materials Science: Wet SEM—The Liquid Frontier of Microscopy

Cluster 5: Defects, Mechanics, and Length Scales

- W: The Limits of Strength in Theory and Practice
- Y: Influences of Interface and Dislocation Behavior on Microstructure Evolution
- Z: Multiscale Materials Modeling
- AA: Structure-Property Relationships of Oxide Surfaces and Interfaces

Cluster 6: Device and Functional Materials

- BB: Characterization and Modeling of Domain Microstructures in Materials
- CC: Ferroelectric Thin Films IX
- DD: Materials Issues for Tunable RF and Microwave Devices II
- EE: Materials Science of Microelectromechanical System (MEMS) Devices III

Cluster 7: Inorganic Materials

- FF: Materials Science of High-Performance Concrete
- GG: Solid-State Chemistry of Inorganic Materials
- HH: Advanced Catalytic Materials - 2000
- II: High-Temperature Superconductors—Crystal Chemistry, Processing, and Properties

Cluster 8: Organic and Biomaterials

- JJ: Organic Electronic and Photonic Materials and Devices
- KK: Filled and Nanocomposite Polymer Materials
- LL: Orthopaedic/Dental Biomaterials
- MM: Cardiovascular Biomaterials
- NN: Biomaterials for Drug Delivery
- OO: Neurologic Biomaterials

Cluster 9: General

- X: Frontiers of Materials Research

2000 MRS FALL MEETING ACTIVITIES

SYMPOSIUM TUTORIAL PROGRAM

Available only to meeting registrants, the tutorials will concentrate on new, rapidly breaking areas of research.

EXHIBIT

Over 225 international exhibitors will display a full spectrum of equipment, instrumentation, products, software, publications, and services.

PUBLICATIONS DESK

A full display of over 630 books, plus videotapes and electronic databases, will be available at the MRS Publications Desk.

SYMPOSIUM ASSISTANT OPPORTUNITIES

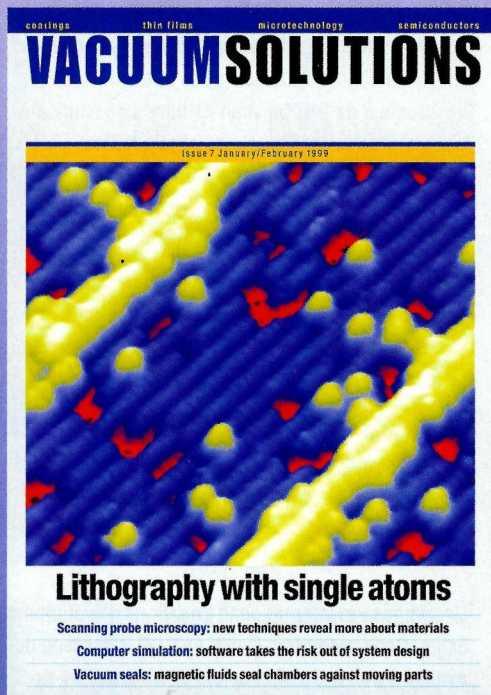
Graduate students planning to attend the 2000 MRS Fall Meeting may apply for a Symposium Assistant (audio-visual aide) position.

EMPLOYMENT CENTER

An Employment Center for MRS members and meeting attendees will be open Tuesday through Thursday.

The 2000 MRS Fall Meeting will serve as a key forum for discussion of interdisciplinary leading-edge materials research from around the world. Various meeting formats—oral, poster, round-table, forum and workshop sessions—are offered to maximize participation.

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