

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.

TENURE TRACK FACULTY POSITION Experimental High Energy Physics Carnegie Mellon University

The Department of Physics at Carnegie Mellon University invites applications for a junior tenure track faculty position in the area of experimental particle physics. The present program consists of experiment 781 at Fermilab, R&D for the BTeV detector at Fermilab, the L3 experiment at CERN, and the CLEO III experiment at Cornell. We are also engaged in work in the CMS collaboration for the LHC.

Applicants for the position should have postdoctoral experience and demonstrated ability in both instrumentation and analysis. The successful candidate is expected to assume a leadership role in his/her experimental involvement during the coming decade. Applicants should also be committed to excellence in graduate and undergraduate education.

The position is nominally available for September, 2000, but an earlier starting time might be arranged. Applications and three (3) letters of recommendation should be sent before October 15, 1999, to:

High Energy Search Committee
ATTN: Prof. James Russ
Department of Physics
Carnegie Mellon University
Pittsburgh, PA 15213, USA
(e-mail: russ@cmphys.phys.cmu.edu)

Reply may be by email, followed by paper copy.

Carnegie Mellon is an equal opportunity/affirmative action employer

The NESTOR Institute for Deep Sea Research Technology and Neutrino Astroparticle Physics

is seeking applications for three **TENURE TRACK** positions.

Qualifications for the positions include :

1. Ph.D. in Experimental Physics (Elementary Particles or Nuclear Physics or Astrophysics). 2. An Application in English or Greek. 3. Official copies of diplomas. 4. A detailed CV. 5. An official copy of the military service status (Greek male citizens only). 6. Citizenship of a European Union Country is required.

The NESTOR Institute for Deep Sea Research Technology and Neutrino Astroparticle Physics

is an Independent Research Center under the supervision of the General Secretariat for Research and Technology of the Ministry of Development of Greece. It invites candidates for three entry level **TENURE Track** Researcher positions. After an initial 3 year appointment, successful candidates will be promoted and extended for an additional 3 years following which they can apply for tenure.

Greek and English are the working languages of the Institute. E.U. citizens are encouraged to apply.

The deadline for receipt of the applications is May 31, 1999. For more information please contact :

<http://solon.cc.uoa.gr/~nestor/> or **NESTOR Institute**

GR - 24001 - Pylos, GREECE

Tel. (30 723) 23300, (30 1) 3646451, 3633413

Fax. (30 723) 23300, (30 1) 3633413

email : L.Resvanis@cern.ch or secretar@digital.ipn.uoa.gr

Tenure-Track Faculty Position Experimental Heavy-Ion Physics University of Illinois at Chicago

The Physics Department at the University of Illinois at Chicago invites applications for a tenure-track faculty position in Experimental Relativistic Heavy-Ion Physics. The candidate should have a Ph.D. and demonstrated outstanding research ability as well as a strong interest in teaching.

The successful candidate will be expected to carry out experimental research in the general area of relativistic heavy-ion collisions. Current efforts in this area include experimental work on experiment E917 at the BNL-AGS and the PHOBOS experiment at the RHIC (<http://rudipc.phy.uic.edu/hehigroup/>).

Applicants should submit a résumé and arrange for three letters of recommendation to be sent to Professor Inder P. Batra, Head, Physics Department M/C 273, University of Illinois at Chicago, 845 W. Taylor St., Chicago, IL 60607-7059.

For full consideration, applications should be received by June 1st, 1999. UIC is an AA/EOE.

TEXAS A&M UNIVERSITY

POST DOCTORAL POSITION IN EXPERIMENTAL HIGH ENERGY PHYSICS

The Experimental High Energy Physics group in the Physics Department at Texas A&M University has an opening for an assistant research scientist to work on the new long baseline neutrino experiment, MINOS (Main Injector Neutrino Oscillation Search), being planned for Fermilab.

Construction of MINOS is just beginning with the anticipation that first beam to this experiment will be available in calendar 2002. The appointee to this position will participate in our group's R&D and construction activities on the scintillator strip tracking calorimeter system. Applicants must have a Ph.D. in physics with a background in experimental high energy physics, with experience in detector design/construction, data acquisition and data analysis. Interested applicants should submit a curriculum vitae and current bibliography, along with at least three professional references to:

Professor Robert C. Webb, Physics Department, Texas A&M University, College Station, Texas 77843-4242 or by e-mail webb@heprb.physics.tamu.edu

Further information about this position and our group's activities may be found at <http://hepr5.physics.tamu.edu/home1.htm>.

Texas A&M is an affirmative action/equal opportunity employer. Committed to excellence through diversity, Texas A&M University particularly invites applications from minorities, women, veteran and persons with disabilities.

COLLEGE DE FRANCE

Post - Doc Position

Applications are invited for a postdoctoral position in the area of experimental R&D of the solar neutrino experiment HELLAZ, starting September or October 1999 at the Collège de France, located in the heart of Paris.

The mystery of the missing solar neutrinos can only be solved by measuring their spectrum with a low threshold and a high energy resolution in a reaction with an accurately known cross-section.

HELLAZ fulfils these goals by detecting the solar neutrinos in a 2000 m³ TPC filled with Helium at 10 bar and 150°K by neutrino-electron elastic scattering. The high resolution is obtained by detecting each ionisation electron of the scattered electron track, hence, the chamber at the end of the TPC must be extremely fast and work with a high gain. Low radioactivity materials are also studied.

The successful candidate will play a major role in a 15 people team. He should be familiar with neutrino physics, gaseous detectors and data acquisition.

Interested candidates should submit an application consisting of a curriculum vitae, copies of university degrees and a publication list. They should arrange to have three letters of recommendation sent directly to:

**Philippe Gorodetzky, PCC-Collège de France,
11 place Marcelin Berthelot, 75005 Paris, France.
<gorodetzky@cdf.in2p3.fr>**

PAUL SCHERRER INSTITUT



The Paul Scherrer Institute (PSI) is a national, multi-disciplinary research center engaged in a diverse program of basic and applied sciences. As part of the Division Particles and Matter our Instrumentation Group has a position for an

Engineer

to participate in design and construction of particle detectors and associated hardware. Responsibilities include development and design (electro-) mechanical components used in particle physics experiments and evaluation of novel materials and techniques in detector construction. The applicant will also be expected to assist in setup and running of experiments at the accelerator.

We are looking for an engineer (B.Sc.) or a very experienced technician (technical school) with a strong interest in mechanics as well as in electronics, who thrives on working in a small and efficient team.

For any further information please contact Dr. J. Egger (Tel. +41 56 310 36 71, e-mail Johny.Egger@psi.ch) or Dr. W.-D. Herold (Tel. +41 56 310 42 40, e-mail Herold@psi.ch).

Please send your detailed application to:

**PAUL SCHERRER INSTITUTE, Personnel Division,
ref. code 1413-01, CH-5232 Villigen PSI, Switzerland**

POST-DOCTORAL

Resumes are invited for a post-doctoral position in Radiation Safety and Radiation Measurements at Argonne National Laboratory's Advanced Photon Source. The program consists of developing new experimental techniques to characterize the photon and neutron radiation environment, especially the high energy photoneutron environment, on the experiment floor. The appointee will participate in the data collection and analysis, and compare the results with the existing model predictions. Experience with UNIX operating systems and programming experience in C is necessary. Candidates must have a Ph.D. in Physics/Health Physics, received not more than 3 years prior to the start date of the appointment with experience in similar work proven by publications. A CV with publication list and contact information of three references should be sent to Susan Walker, Box XFDPDPK-60, Employment and Placement, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439. Fax: 630-252-9388. TDD: 630-252-7722, or for additional technical information, e-mail to: pkj@aps.anl.gov

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RESEARCH ASSOCIATE POSITIONS

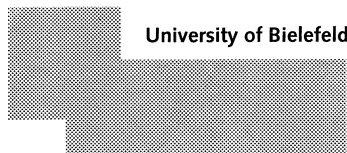
Experimental High Energy Physics Carnegie Mellon University

The Department of Physics at Carnegie Mellon University invites applications for two postdoctoral Research Associate positions in experimental high energy particle physics. The two individuals who fill these positions will work on our CLEO program at CESR, beginning in September 1999. The successful candidates will be based at the Cornell Synchrotron, in Ithaca NY, and will be expected to play a major role in the successful commissioning of the physics program for the CLEOIII detector. They will also be involved in the analysis of the existing CLEOII data, consisting of 10 million B pairs and extensive samples of charm and tau events. Interested candidates should submit a letter of application, curriculum vitae, and list of publications, and arrange to have three letters of recommendation sent to:

Professor Roy Briere
Department of Physics
Carnegie Mellon University
Pittsburgh, PA 15213, USA
(e-mail: briere@mail.lns.cornell.edu)

The application and recommendations can be sent either by normal or electronic mail. Review of applications will begin on July 1, 1999 and continue until the positions are filled.

Carnegie Mellon is an equal opportunity / affirmative action employer



University of Bielefeld

Professorship (C-4) in Theoretical Physics

The Department of Physics invites applications for a professorship in Theoretical Physics (chair of D. Schildknecht), with specialisation Elementary Particle Theory. The appointment will be made for August 1, 2000.

Candidates should have a record of successful research on the important physical questions of the field. They should be willing to participate in the research group on statistical aspects of elementary particle physics maintained at the University of Bielefeld by the German National Research Foundation (DFG).

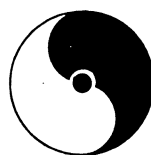
The successful applicant will participate in the general teaching duties of the department, in particular in theoretical physics. It is therefore expected that candidates have the necessary interest and pedagogic skill for this.

Prerequisites are a doctorate in physics and 'Habilitation' or 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 June 30, 1999, to

**Dekan der Fakultät für Physik
Universität Bielefeld
Postfach 10 01 31
D-33501 Bielefeld
Germany**



**RIKEN BNL
Research Center**

Brookhaven National
Laboratory

SCIENTIFIC STAFF POSITIONS

Experimental Particle and Nuclear Physics

A research center focusing on the physics program of the Relativistic Heavy Ion Collider (RHIC), hard QCD/spin physics, lattice QCD and relativistic heavy ion physics, including theory and experiment, has been established by the Institute of Physical and Chemical Research, Japan (RIKEN) at the Laboratory. RHIC will be the first polarized proton collider, beginning in 2000, and the center will play a major role in developing the RHIC spin program. RIKEN-BNL Fellow (up to five-year appointment) and Postdoctoral Research Associate (two-year appointment) positions will be offered for the fall of 1999. Members of the experimental division of the Center will have the opportunity to participate in the detector program at RHIC.

Scientists with appropriate background who are interested in applying should send a curriculum vitae and three letters of reference to Dr. T.D. Lee, Bldg. 510A, Brookhaven National Laboratory, P.O. Box 5000, Upton, NY 11973-5000 before June 30, 1999. Brookhaven is an equal opportunity employer committed to workforce diversity.

BROOKHAVEN NATIONAL LABORATORY

Visit our website at: www.bnl.gov

POSTDOCTORAL RESEARCH ASSOCIATE Boston University Muon (g-2) Experiment

The Boston University Intermediate Energy Physics Group is seeking a postdoctoral physicist in particle or nuclear physics to work on the muon (g-2) experiment at the Brookhaven AGS.

The muon (g-2) experiment recently finished its first production data run and will run again in 2000 and 2001.

The successful candidate will have the opportunity to lead in one or more of: Monte Carlo simulations, data analysis, detectors, electronics, beam dynamics and the muon kicker, as well as in the development of future experiments.

The position is open immediately. The initial appointment will be for one year, renewable for two additional years, subject to mutual agreement and the availability of funding.

Curriculum vitae and three letters of reference should be sent to Profs. J. Miller and L. Roberts, Department of Physics, Boston, MA 02215, or email roberts@bu.edu.

Boston University is an affirmative action/equal opportunity employer.

POSITIONS IN HADRON PHYSICS at Forschungszentrum Rossendorf

The FZR at Dresden has openings (for 2 years, renewable) in a research program on properties of hadron and dense hadronic matter, using GeV protons and heavy ions at the synchrotrons SIS and COSY.

From strange mesons and di-leptons as probes results are obtained with interesting consequences for the understanding of neutron stars and supernovae.

Successful applicants will participate in detector development in data taking and analysis and in the interpretation of the results; if wanted these may be used for a Ph.D.-thesis at TU Dresden.

Interested scientists should send a CV to:
Prof. B. Kaempfer, FZR, PF-510119, D-01314 Dresden;
information at www.fz-rossendorf.de/FWK/.

Are you looking for...

- Bio/Medical Physicists • Radiologists • Electrical Engineers • Software Developers
- Technical Editors • Cosmologists • Subatomic, Nuclear, Particle, Astro, High, Medium and Low Energy Physicists.

For further information and professional recruitment advice contact Chris Thomas

Tel: +44 (0)117 9301031 Fax: +44 (0)117 9301178

E-mail: chris.thomas@iopublishing.co.uk

Experimental Research Associates

The Stanford Linear Accelerator Center (SLAC) is one of the world's leading laboratories supporting research in high-energy physics. The laboratory's program includes the physics of high-energy electron-positron collisions, high-luminosity storage rings, high-energy linear colliders, and particle astrophysics.

Postdoctoral Research Associate positions are currently available with opportunities to participate in the laboratory's research program, with particular emphasis on:

- Preparing for B physics with the BABAR detector at the PEP II Asymmetric B Factory, helping to tune up the BABAR Detector hardware and software for operations and to get ready for physics analysis
- Participating in a Particle Astrophysics program studying time-dependent x-ray sources with the USA, and R&D for a high-energy gamma-ray astronomy experiment in space (GLAST)

These positions are highly competitive and require a background of research in high-energy physics and a recent Ph.D. or equivalent. The term for these positions is two years and may be renewed.

Applicants should send a letter stating their physics research interests, along with a CV and three references, to: Tanya Boysen, tkb@slac.stanford.edu, Research Division, M/S 80, SLAC, P.O. Box 4349, Stanford, CA 94309. Equal opportunity through affirmative action. Visit our Web site at: www.slac.stanford.edu.

*Stanford Linear
Accelerator Center*
SLAC

SOUTHERN METHODIST UNIVERSITY FACULTY POSITION

The Department of Physics at Southern Methodist University in Dallas invites applications for a tenure track assistant professorship in the area of experimental high energy physics beginning August, 2000.

Applicants should have had postdoctoral experience in one or more frontier experiments and should have high potential for playing a leadership role in future experiments. The successful candidate will be expected to teach at the undergraduate and graduate levels and to conduct an active research program.

Currently, the SMU group is involved in the CLEO and ATLAS experiments. Applicants should submit a detailed curriculum vitae, list of publications, statement describing their research and teaching interests and should arrange for at least three letters of reference to be sent to:

Faculty Search, c/o Ms. Carol Carroll, Department of Physics,
Southern Methodist University, Dallas TX 75275-0175

The committee will begin its review of the applications on or about September 1, 1999. To ensure full consideration, applications should be postmarked by September 1, 1999, but the committee will continue to accept applications until the position is filled.

*SMU will not discriminate on the basis of race, color, religion,
national origin, sex, age, disability, or veteran status.*

RESEARCH ASSOCIATE POSITION HIGH ENERGY PHYSICS THE OHIO STATE UNIVERSITY

The experimental high energy physics group at The Ohio State University invites application for a postdoctoral research associate position with our CLEO/ATLAS program. 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 design and implementation of 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. K. K. Gan, The Ohio State University, Department of Physics, 174 West 18th Avenue, Columbus, Ohio 43210-1106, or email: GAN@ohstpy.mps.ohio-state.edu.**

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

UNIVERSITY OF PITTSBURGH

The High Energy Group invites applications for a postdoctoral research position. The position offers opportunities for participation in three experiments; ATLAS, MINOS, and NuTeV.

For more information see <http://ariel.phyast.pitt.edu/-naples/job.html>
Curriculum vitae and three letters of recommendation should be sent to:

Professor W. E. Cleland, Department of Physics, University of Pittsburgh,
Pittsburgh, PA 15260. email: cleland@vms.cis.pitt.edu
Phone: 412-624-9059 Fax: 412-624-9163

Review of applications will begin on May 1, 1999 and continue until the position is filled. University of Pittsburgh is an affirmative action/equal opportunity institution.

NORTHWESTERN UNIVERSITY

POST-DOCTORAL POSITION

We have an opening for a postdoctoral research associate to participate in the D0 experiment at Fermilab.

We have recently completed a run (Run I) of over 100 pb⁻¹ of proton-antiproton collisions at a center-of-mass energy of 1.8 TeV. Both the Tevatron and the D0 detector are currently being upgraded for a run (Run II) to start in 2000.

Northwestern University is located just north of Chicago, 45 miles from Fermilab. It is possible to enjoy the advantages of living in a college town (or Chicago) and still participate fully in the activities at Fermilab.

Candidates should send a CV and arrange for three letters of reference to be sent to either David Buchholz or Heidi Schellman at Northwestern University, Department of Physics and Astronomy, 2145 Sheridan Road, Evanston, IL 60208-3112 or via e-mail to: dbuchholz@nwu.edu or to: schellman@fnal.gov

Applications should be sent by June 1, 1999.

Northwestern University is an equal opportunity employer.

Don't Lose Your Technical Edge ...

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American Vacuum Society 46th International Symposium October 25-29, 1999, Seattle, WA

Eight technical division programs will be held on issues related to films, microelectronics, nanostructures, processing, surfaces, and vacuum, including:

- ◆ Applied Surface Science.
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- ◆ Surface Science.
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In addition, the week-long annual symposium will feature:

Three Technical Group Programs

- ◆ Biomaterial Interfaces.
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- ◆ Emerging Opportunities and Issues in Nanotubes and Nanoelectronics.
- ◆ Flat Panel Display.
- ◆ Science of Micro-electromechanical Systems.
- ◆ Organic Electronic Materials.

50 Short Courses

- ◆ Applied Vacuum Technology.
- ◆ Surface Analysis and Materials Characterization.
- ◆ Materials, Thin Films, and Coatings: Processing and Properties.

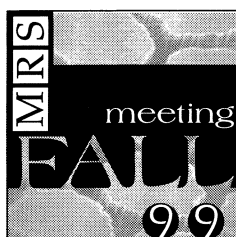
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For more information on the symposium, visit the AVS Web site at <http://www.vacuum.org> or contact the AVS, 212-248-0200, fax 212-248-0245, e-mail avsny@vacuum.org.



New Developments ■ New Characterization Methods ■ New Process Technology



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Exhibit:
November 30-
December 2

The MRS 1999 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.

1999 MRS FALL MEETING SYMPOSIA

- | | |
|---|--|
| A: Multiscale Phenomena in Materials—Experiments and Modeling | T: Structure and Electronic Properties of Ultrathin Dielectric Films on Silicon and Related Structures |
| B: Computational Approaches to Predicting the Optical Properties of Materials | U: Amorphous and Nanostructured Carbon |
| C: Microstructural Modeling for Industrial Metals Processing | V: Thin Films—Stresses and Mechanical Properties VIII |
| D: New Advances in Materials Prediction | W: GaN and Related Alloys |
| E: Nucleation and Growth Processes in Materials | X: Frontiers of Materials Research |
| F: Nanophase and Nanocomposite Materials III | Y: Ferroelectric Thin Films VIII |
| G: Nanolithographic Approaches to Micro- and Nanoscale Organization | Z: Thin Films for Optical Waveguide Devices |
| H: Molecular Electronics | AA: Materials Science of Food—Processing-Structure-Property Relationships |
| I: Self-Organized Processes in Semiconductor Alloys—Spontaneous Ordering, Composition Modulation, and 3-D Islanding | BB: Electrical, Optical, and Magnetic Properties of Organic Solid-State Materials V |
| J: Advanced Materials and Techniques for Nanolithography | CC: Complex Fluids and Polymers |
| K: Thermal Spray—Materials Synthesis by Thermal Spraying | DD: Mineralization in Natural and Synthetic Biomaterials |
| L: Fundamental Mechanisms of Low-Energy-Beam-Modified Surface Growth and Processing | EE: Materials Science of Phospholipid Assemblies |
| M: Interfacial Engineering for Optimized Properties II | FF: Electroactive Polymers |
| N: Atomic Scale Measurements and Atomistic Models of Epitaxial Growth and Lithography | GG: Transport Properties and Microstructure of Cement-Based Systems |
| O: Substrate Engineering—Paving the Way to Epitaxy | HH: Superplasticity—Current Status and Future Potential |
| P: Optical Microstructural Characterization of Semiconductors | II: Superconducting Materials—Properties, Crystal Chemistry, and Processing |
| Q: Advances in Materials Problem Solving with the Electron Microscope | JJ: Magnetoresistive Oxides and Related Materials |
| R: Applications of Synchrotron Radiation Techniques to Materials Science | KK: Materials Issues for Tunable RF and Microwave Devices |
| S: Nondestructive Methods for Materials Characterization | LL: Smart Materials |
| | MM: Materials Science of Microelectromechanical System (MEMS) Devices II |
| | NN: Chemical Processing of Dielectrics, Insulators, and Electronic Ceramics |
| | OO: Infrared Applications of Semiconductors III |
| | PP: Materials for Optical Limiting III |
| | QQ: Scientific Basis for Nuclear Waste Management XXIII |

1999 MRS FALL MEETING ACTIVITIES

SYMPOSIUM TUTORIAL PROGRAM

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

EXHIBIT

Over 275 international exhibitors will display a full spectrum of equipment, instrumentation, products, software, publications, and services.

PUBLICATIONS DESKS

A full display of over 600 books, plus videotapes and electronic databases, will be available at the MRS Publications Desks.

SYMPOSIUM ASSISTANT OPPORTUNITIES

Graduate students planning to attend the 1999 MRS Fall Meeting may apply for a Symposium Assistant (audio-visual aide) position.

JOB CENTER

A Job Center for MRS members and meeting attendees will be open Tuesday through Thursday.

For additional meeting information...

...or to request a detailed 1999 MRS Fall Meeting Program, contact:



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