

RECRUTEMENT

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Institute of Physics Publishing, Dirac House, Temple Back, Bristol, BS1 6BE, UK. Tel: +44 117 930 1026, Fax: +44 117 930 1178

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POSTDOCTORAL POSITION IN GAMMA-RAY ASTRONOMY

The Nuclear and Particle Astrophysics Team is seeking a postdoc in the field of high-energy gamma-ray astronomy and cosmic-ray physics to work with the Milagro gamma-ray observatory and a new, large-aperture air Cerenkov telescope (WACT) array that will operate in conjunction with Milagro.

The Milagro TeV gamma-ray observatory <http://www.lanl.gov/milagro/> is a large, water-Cerenkov air-shower detector in the Jemez mountains west of Los Alamos. Milagro continuously monitors the entire overhead sky in the energy region above 500 GeV. Ongoing projects include enhancements to lower the energy threshold of Milagro and to increase the sensitivity of the instrument through improved discrimination of the cosmic-ray background. The WACT telescope array is nearing completion at the Milagro site. WACT consists of 6 large aperture telescopes and will be used to study the cosmic-ray composition from 50 TeV to 5 PeV. The successful candidate will assume a leading role in these efforts and in the analysis of data from Milagro. For additional technical information contact Cy Hoffman at cy@lanl.gov.

A Ph.D. completed within the last three years, or soon to be completed, is required. See further details about the Postdoctoral Program at: <http://www.hr.lanl.gov/postdoc/>.

For consideration, submit a resume and publications list with a cover letter outlining current research interests to: postdoc-jobs@lanl.gov (reference job #CERN-PD016558) OR SUBMIT TWO COPIES to:

Postdoc Program Office,
CERN-PD016558, MS-P290,
Los Alamos National
Laboratory, Los Alamos, NM
87545



Los Alamos
NATIONAL LABORATORY

Operated by the University of California
for the Department of Energy, AA/EOE

www.lanl.gov/jobs

POSTDOCTORAL RESEARCH POSITION

Experimental High Energy Physics with BaBar
Université de Montréal

The experimental high energy physics group at Université de Montréal has an immediate opening for a research associate to take a leading role in our ongoing effort in BaBar. Applicants must have a recent Ph. D. in elementary particle physics, strong interest in heavy quark physics and demonstrated software experience, preferably with object-oriented C++ software. The successful candidate will be based at SLAC. He will share in the responsibility for the global alignment of the Silicon Vertex Detector to the Drift Chamber of the BaBar detector and be very involved in the physics analyses of the UdeM students. Interested candidates should send a curriculum vitae and arrange to have three letters of recommendation sent to:

Prof. Paul Taras, Laboratoire Rene J. A. Levesque, C. P. 6128,
Succ. Centre-Ville, Montreal, Quebec H3C 3J7, Canada.
E-mail enquiries can be directed to taras@lps.umontreal.ca.

Screening of candidates will begin immediately.

In accordance with Canadian immigration regulations, priority will be given to Canadian citizens or permanent residents. Nevertheless, all qualified physicists are encouraged to apply.

The Niels Bohr Institute for Astronomy, Physics and Geophysics

University of Copenhagen

Postdoctoral position in Experimental Particle Physics

A postdoctoral position is available from June 1, 2001 with the Experimental Particle Physics group at the Niels Bohr Institute, University of Copenhagen. The position is for two years with a possibility of extension, however, not exceeding five years.

The particle physics group is located at the Niels Bohr Institute, 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 analysis and the groups involvement in the GRID project. More information can be found at <http://www.nbi.dk/HEP/>. The Position also demands participation in the university teaching program. The candidate will be based in Copenhagen.

Deadline for applications is April 6, 2001, at noon.

Further information can be obtained from professors John Renner Hansen (renner@nbi.dk) and Jørn Dines Hansen (dines@nbi.dk). If you consider applying for the position, read the full text of the advertisement on the Internet address

<http://www.ku.dk/led/stillinger/>.

Applications should be sent to:

Professor Jørn Dines Hansen

The Niels Bohr Institute

Blegdamsvej 17

DK-2100 Copenhagen, Denmark.

MIT

POSTDOCTORAL ASSOCIATE

The Particle Physics Collaboration within the MIT Laboratory for Nuclear Science is seeking a Postdoctoral Associate to join an ongoing large-scale dark matter axion search experiment. The successful candidate will participate in data-taking and analysis, and in construction of a major upgrade of the experiment. Relevant skills include RF electronics, signal processing and spectral estimation, quantum-electronic device fabrication, and low temperature physics. A Ph.D. in Physics or a related field, and travel to our collaborators at Lawrence Livermore Laboratory, California, is required. The Particle Physics Collaboration also participates in the CERN LHC proton-proton and heavy-ion programs and we would consider candidates with a shared interest in dark matter and collider research.

Candidates should submit their curriculum vitae, publication list, and names of three references to: **Leslie J. Rosenberg, Associate Professor of Physics, MIT, Room 24-506, 77 Massachusetts Avenue, Cambridge, MA 02139-4307; e-mail: ljr@mitlns.mit.edu.**



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NETWORK SCIENTIST

(Position #PR2024)

Plan and manage the evolution of the laboratory data and general-purpose networks. Participate in network related research projects. Ensure that the network infrastructure fulfills the needs of the general and experimental physics users. Research and develop networking capabilities to support the future needs of the laboratory, evaluate new technologies. A Bachelor's degree in Computer Science or other scientific discipline (e.g. Physics or Mathematics) and 5 years experience in networking, or equivalent in qualifications and experience, or (for more senior grade) Master's degree in Computer Science or other scientific discipline and 10 years experience in networking, or equivalent in qualifications and experience. Experience working with High Energy or Nuclear Physics institutions and laboratories or in other international scientific research environments is highly desirable. Experience developing software tools and utilities in Perl, C, or Java is desirable.

Demonstrated track record in leading groups and delivering results in development projects and mission critical tasks an advantage. Extensive knowledge of network technologies, including TCP/IP, LAN and WAN routing protocols, switched environments, quality of service. Knowledge of network management techniques including use of software packages such as HP OpenView. Working knowledge of Unix and NT platforms essential, and distributed computing technologies highly desirable. In depth knowledge of computer and network security issues. Excellent written and verbal communication skills are essential.

The starting salary range for the position is \$56,000 - \$88,600 (SCS II). For a higher classification, the salary range is \$70,200 - \$111,000 (SCS III). For prompt consideration, please submit resume specifying position number and job title to: Jefferson Lab, ATTN: Employment Administrator, 12000 Jefferson Avenue, Newport News, VA 23606, Fax: 757-269-7559, E-mail: jobline@jlab.org.

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SERVICE DE PHYSIQUE THEORIQUE DE SACLAY (SPhT) OPENING OF A PERMANENT POSITION IN THEORETICAL PHYSICS

The SPhT is opening a senior staff research position (professor level) in theoretical physics, to strengthen its activities in the fundamental aspects of string theory. Candidates should have a strong research record and significant accomplishments in this domain.

Deadline for application is March 24, 2001.

Further information may be obtained from our web page:

<http://www-spht cea.fr>

THREE POSITIONS IN EXPERIMENTAL NUCLEAR PHYSICS The George Washington University

These positions are primarily in support of our experimental program on nucleons and few-body nuclei with tagged photons at Jefferson Lab.

- Assistant Research Professor (3-year term) at GW
- Postdoctoral Research Scientist (3-year term) at GW
- Postdoctoral Research Scientist (2-year term) at JLab

Please send C.V. and statement of research goals, and have 3 letters of reference sent directly to

Professor B.L. Berman, Department of Physics, George Washington University, Washington, DC 20052 [fax: (202) 994-3001; e-mail: berman@gwu.edu].

GW is an EO/AA employer; women and minorities are encouraged to apply.



The **Deutsche Elektronen-Synchrotron DESY** in Hamburg, member of the association of national research centers Hermann von Helmholtz-Gemeinschaft Deutscher Forschungszentren, is a national center of basic research in physics with app. 1,400 employees and more than 3,000 scientific guests from Germany and foreign countries per year. The accelerators in operation are dedicated to particle physics and research with synchrotron radiation.

DESY announces several

"DESY Fellowships"

A Free-Electron-Laser for wavelengths far below the visible will be set up at DESY within the framework of an international collaboration. The project is based on the superconducting TESLA test facility, which provides the technological basis for a future linear accelerator for the collision of electron and positron beams at high energies. A crucial contribution to the success of this facility will be the development, construction and putting into operation of several demanding components of the electron accelerator.

In the first position the successful candidate (m/f) will not only participate in the operation of the existing facility (possibly also in shiftwork) but also be responsible for the coordination of work already under way and/or for the construction and putting into operation of self-developed components.

Job offer 3/2001

In the second position the successful candidate (m/f) will not only participate in the operation of the existing facility (possibly also in shiftwork) but also work responsibly on the further development of the test injector AO at Fermilab, Illinois/USA.

Job offer 4/2001

The employment will be limited to a period of 3 years, with starting the soonest possible. Payment and social benefits correspond to those in public services (BAT II a). For both positions tasks and environment offer the candidate the best chances to continue his/her professional education.

Interested scientists (m/f) who have recently completed their Ph.D. and are not more than 32 of age are asked to apply with the usual documents and three references to the DESY personnel department until March 31, 2001 to

DESY
Personalabteilung -V 2-
Notkestraße 85, D-22607 Hamburg
Tel.: +49-(0)40/8998 3617
www.desy.de

Handicapped applicants will be given preference to other applicants with the same qualifications. DESY supports the careers of women and encourages especially women to apply.

Postdoctoral Position in Experimental Particle Physics/Particle Astrophysics

The Department of Physics at the Humboldt-University Berlin is seeking qualified candidates for a postdoctoral research fellowship.

Duties: Participation in teaching at the undergraduate and graduate level, participation in the research projects, currently heavy flavour physics (HERA-B, DESY and LHCb, CERN) and high energy gamma astronomy (H.E.S.S., Namibia)

Requirements: Good knowledge on particle detectors and online/offline data processing.

The salary will be based on the German BAT IIa pay scale. The contract will be for an initial period of three years, extendable to a maximum of five years. Please, send applications to:

Prof. Dr. T. Lohse
Humboldt-Universität zu Berlin
Institut für Physik
Invalidenstraße 110
D-10115 Berlin
e-mail: lohse@ifh.de



RHEINISCHE FRIEDRICH - WILHELMS - UNIVERSITÄT BONN

**The department of Physics and Astronomy
in the Faculty of Mathematics and Natural Sciences**

invites applications for the position of a

Professor of Experimental Physics (C3)

to begin in Fall 2001.

The post is based in

the Institut für Strahlen - und Kernphysik (ISKP).

The new professor is expected to carry out first-rate experimental research and to participate in teaching physics, especially for students of medicine, biology and pharmacy. In particular, candidates should be established physicists in the field of nuclear and particle physics with an excellent record in detector design. Close collaboration with research groups of the institute (e.g. the Crystal-Barrel group) is desired.

Conditions for engagement are according to §46 HG (NRW). Bonn University plans to increase the number of women in such positions. Qualified women are strongly encouraged to apply. Given equal qualification, candidates with disabilities will be given preference.

Please submit applications with the usual records until

March 22, 2001 to:

An den Vorsitzenden

Der Fachgruppe Physik-Astronomie

Endenicher Allee 11-13

D 53115 Bonn



**UNIVERSITY OF
OXFORD**

Mathematical and Physical Sciences Division
Department of Physics in association with Balliol College

**University Lecturership in
Experimental Particle Physics**

The University proposes to appoint a University Lecturer in the field of experimental particle physics. This is a permanent post and may be associated with a Tutorial Fellowship at Balliol College. The combined University and College salary will be according to age on a scale up to £39,564.

The successful candidate will be expected to make substantial contributions to our research programme, which covers experiments at accelerators as well as in particle astrophysics. We are currently involved in preparations for the MINOS, ATLAS and LHCb experiments, while continuing participation in ZEUS, DELPHI and CDF. Some work has been started on accelerator aspects of a future neutrino factory and linear collider. Particle astrophysics activities include the SNO solar neutrino experiment and the CRESST dark matter search. We are interested in developing major new activities that take advantage of our strengths in hardware development, both mechanical and electronic. More information on our programme can be obtained from our web page: <http://www2.physics.ox.ac.uk/pnp/> and further particulars of this post are available on <http://www2.physics.ox.ac.uk/pnp/lect01-fp.htm> or from Mrs Sue Geddes, Nuclear and Astrophysics Laboratory, Keble Road, Oxford OX1 3RH, UK, e-mail: s.geddes@physics.ox.ac.uk fax 00 44 (01865) 273417.

Applications should include a description of research and teaching experience, a statement of future research interests, a list of up to ten major publications, the names of three referees and a curriculum vitae. They should be sent to Mrs Geddes at the above address to arrive no later than 30 April 2001. No more than two of the three referees should be from the same institution; they should all be asked to consider the selection criteria in the further particulars and send letters of reference directly to the above address to arrive by the closing date (a letter by e-mail or fax is sufficient). Shortlisted candidates will be invited for interview in Oxford within 1-2 months after the closing date; applicants are asked to provide an e-mail address, fax or telephone number where they can be contacted during that time. Questions can be addressed to Prof Susan Cooper, e-mail: s.cooper@physics.ox.ac.uk

The University is an Equal Opportunities Employer.

Peoples Fellowships at Fermilab

Fermilab invites outstanding accelerator and accelerator-related technology scientists and high energy physicists to apply to the Peoples Fellowship program. The Peoples Fellowship has been created to facilitate the entry of scientists into the realm of accelerator science and technology at Fermilab. The program targets scientists early in their careers with the following criteria for eligibility:

1. Recipient within the prior three years of a PhD in accelerator physics or accelerator-related technology. Post-doctoral experience not necessarily required.
2. Recipient within the prior five years of a PhD, and normally with subsequent post-doctoral experience of at least three years, in high energy physics or a related field.

Approximately one award will be made annually.

Peoples Fellows will normally be assigned to either the Beams or Technical Divisions at Fermilab. These organizations retain responsibility for operating the existing accelerator complex, featuring the highest energy particle accelerator in the world, while simultaneously engaging in accelerator R&D aimed at developing the forefront accelerator facilities of the future. The successful Peoples Fellow candidate will propose a research project directed toward assisting Fermilab in achieving success in either of these directions and will be provided with support to execute this project. Current representative areas of research include stochastic and electron cooling, muon storage rings, superconducting magnet R&D, superconducting RF R&D, linear colliders, large hadron colliders, advanced acceleration methods, accelerator controls and feedback, and computational physics and modeling. Peoples Fellows are classified as Associate Scientists—a scientific tenure track position.

Term of Appointment

The initial term of the fellowship is three years, extendible for an additional term if justified.

Applications

Fermilab invites candidates for Peoples Fellowships to forward applications to:

Dr. James Strait, Chair, Peoples Fellows Committee
Fermilab, MS 343
P.O. Box 500
Batavia, IL 60510

Applications should include a current curriculum vitae, four references, and an indication of a potential area of research interest.

Located 40 miles west of downtown Chicago on a campus-like setting, Fermilab provides its employees with opportunities for personal and professional growth, competitive salaries, and an attractive benefits package.



Fermilab

University of Massachusetts, Amherst Postdoctoral Research Position Experimental High Energy Nuclear Physics

Applications are invited for a postdoctoral position in experimental nuclear physics. The position is for one year initially, with the possibility of renewal for up to three years upon mutual agreement and availability of funds. The primary responsibility of the successful candidate will be to participate in design, testing, commissioning and data taking of the approved parity violating electron scattering experiments in Hall A at Jefferson Laboratory, in which our group plays a leadership role. These experiments will test low energy QCD by probing the strangeness content of the nucleon and the neutron distribution inside nuclei with unprecedented precision. Testing of the experimental apparatus is likely to begin in late 2001 with data taking tentatively scheduled for Fall 2002.

This is a joint Jefferson Lab. - Univ. of Mass. position. The successful candidate is expected to be resident at Jefferson Laboratory and will have the opportunity to participate in other ongoing research programs in Hall A. In addition, participation in the E158 experiment at the Stanford Linear Accelerator Center will be encouraged.

Applicants must have a Ph.D. in experimental nuclear or particle physics. Prior experience with both software and hardware in accelerator-based experiments is desirable.

Applicants should send a CV, a description of research interests, and arrange for three letters of recommendation to be sent directly to

**Prof. Krishna S. Kumar, Department of Physics,
University of Massachusetts, Amherst, MA 01003.**

Review of applications will begin April 1, 2001.

Position remains open until filled.

Women and members of minority groups are encouraged to apply. AA/EOE.

QUEEN MARY UNIVERSITY OF LONDON

opportunities in EXPERIMENTAL PARTICLE PHYSICS RESEARCH ASSOCIATE IN ATLAS

A Post doctoral Research Associate post is available now in the QM Particle Physics Group to work on the ATLAS experiment for the CERN LHC.

The QM Group has active projects with major responsibilities, in the Semiconductor Tracker (SCT), and in the Level 1 Calorimeter Trigger, and additional projects in the ATLAS beam pipe implementation and in Physics Studies. Candidates with interests and experience in any, or all, of these areas are encouraged to apply.

The research associate is expected to become knowledgeable across the programme of the QM Group, but will have personal responsibilities within one or more specific activities, and be encouraged to initiate and lead physics studies. He/she will also need to become experienced in data acquisition software and in the testing and implementation of hardware.

The post is based at Queen Mary, London, but travel to CERN and to other collaborating laboratories will be required. More extensive periods will also be necessary at CERN, in connection with test beam studies, and in later years long-term attachment, for installation and commissioning within ATLAS.

The initial contract will be for a period of three years, with the expectation of an extension that would allow the successful candidate to participate in projects through to their full implementation in ATLAS and into data taking and physics analysis.

Further information and application forms can be obtained from Prof. Tony Carter <a.a.carter@qmw.ac.uk>, or at CERN by phone: 0041 22 767 6361.

Candidates should have, or be about to gain, a PhD in experimental particle physics, and should be familiar with current particle physics software techniques. Relevant experimental hardware experience would also be an advantage. The initial salary, including London allowance, will be in the RA1A range £18,909 to £23,569 depending on age and experience.

For an application form and further details, please e-mail coll-recruit@qmw.ac.uk or telephone the 24-hour Recruitment Line on 0044 (0) 20 7882 5171, quoting reference 00097. Completed applications should be returned, as soon as possible, to the Personnel Office, Queen Mary, University of London, Mile End Road, London E1 4NS.

POSTGRADUATE RESEARCH STUDENTSHIPS

The Experimental Particle Physics Group at Queen Mary, University of London, is inviting applications for Postgraduate Studentships that are available from October 1st 2001. Successful candidates who wish to have a period of one to two months, in the Summer of 2001, resident at one of the Group's International Collider Facilities will have the opportunity of working as members of the Queen Mary team, together with their collaborators, before taking up the official award.

Accepted students will become registered for a PhD in the University of London, after an initial probationary period, and the detailed topics of the doctorate project will be decided between the Supervisor and the Student after a period of post graduate training in London. The central topics for the PhD thesis are expected to be one or more of the following:

1. Studying physics interaction processes of fundamental particles and developing the appropriate software programs for analysing simulated and real data.
2. Development and testing of experimental instrumentation.
3. Taking and analysing experimental data within active experiments or test beams.
4. Developments of software and hardware within data-acquisition systems for experiments.
5. Implementation and evaluation of components of the Particle Physics distributed computing and data Grid system.

To carry out their research the students will join one of the following international experiments: BaBar: studying electron-positron interactions at SLAC, California, with particular emphasis in b-quark physics and in quantitative measurements of CP-violation processes.

H1: studying electron-proton interactions at the highest energies at DESY, Hamburg, with particular emphasis on hadronic fragmentation in deep inelastic processes.

ATLAS: preparing detector and trigger instrumentation, and physics simulation and analysis software, for the future studies of proton-proton interactions in the TeV energy domain at CERN, Geneva.

These activities cover a wide range of topics, from fundamental particle physics, through hardware/software design and implementation to data analysis and state-of-the-art computing technology within the UK e-Science programme.

The details of financial arrangements for the studentship will be provided to all interested applicants. For further details of the Post Graduate programme please contact Dr Alex Martin (a.j.martin@qmw.ac.uk) and for general information or application forms contact Mrs Denise Paige (d.paige@qmw.ac.uk). General information about research opportunities in the Physics Department can be found in the Queen Mary Research Handbook.

C O N F E R E N C E

CERN Accelerator School
Academy of Sciences of the
Czech Republic Nuclear Physics Institute, Řež
will hold a course on

Particle Accelerators for Medicine and Industry.

Congress and Educational Centre Průhonice, Czech Republic 9 -17 May.

This course will be of interest to staff from laboratories, hospitals, universities and manufacturing companies associated with medical and industrial applications of particle accelerators.

<http://cern.web.cern.ch/Schools/CAS/>

For further information and application forms contact

Suzanne.von.Wartburg@cern.ch



The **Deutsche Elektronen-Synchrotron DESY** in Hamburg, member of the association of national research centers Hermann von Helmholtz-Gemeinschaft Deutscher Forschungszentren, is a national center of basic research in physics with app. 1,400 employees and more than 3,000 scientific guests from Germany and foreign countries per year. The accelerators in operation are dedicated to particle physics and research with synchrotron radiation.

DESY offers two positions for

Scientists (m/f) with Ph.D.

The candidates are expected to take part in the operation and in the research programme of the H1 experiment on the ep storage ring HERA.

For the first position the candidate should be willing to take a leading role in the development of the online event filters of the H1 experiment. He or she should take part in the preparation and the refinement of the overall H1 computing environment for the time after the HERA upgrade. The applicants should have an established record in interpreting physics data.

Job offer 11/2001

For the second position the candidate should be willing to take over considerable responsibilities in the introduction of object-oriented software analysis methods for the H1 experiment. The applicants should have an established record in handling large software packages.

Job offer 12/2001

Applicants should have a Ph.D. in physics and several years of experience in experimental particle physics. They should have an established record in physics analysis.

The positions are unlimited, payment and social benefits correspond to those in public services.

Handicapped applicants will be given preference to other applicants with the same qualifications. DESY supports the careers of women and encourages especially women to apply.

Please send your application documents until March 31 to:

DESY
Personalabteilung
Notkestraße 85, D-22607 Hamburg
Tel.: +49-(0)40/8998 2565
www.desy.de

University of Wisconsin-Madison

Postdoctoral Position in Experimental Particle Physics

A University of Wisconsin-Madison research group on the BaBar experiment at SLAC seeks outstanding applicants for one or more positions of postdoctoral Research Associate. Applicants should have a Ph.D. in high energy physics with significant research experience in the area of analysis, preferably on a colliding beam experiment.

The successful candidate will be based at SLAC and participate in the measurement of the CP asymmetry in B decays.

Please send a full CV and three letters of recommendation to the following address (preferably by e-mail or by fax):

Prof. Sau Lan Wu, CERN, PPE Division, Bldg. 32,
R-A05, CH-1217 Geneva 23
Switzerland

wu@wisconsin.cern.ch
Tel: (4122) 767-7171 Fax: (4122) 782-8395

University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

University of Hamburg
Institute for Experimental Physics
Faculty Position in Experimental
Particle Physics

The Institute for Experimental Physics invites applications for

**C3-Professor (tenure) for
Experimental Particle Physics**

The candidate is expected to play a leading role in the Institute's group participating in the ZEUS experiment at the HERA e-p collider at DESY and to participate actively in shaping the future research program of the Institute including physics with TESLA. The teaching requirement of 8 hours/week during the semesters includes lectures, tutoring, labs, seminars and the supervision of diploma-students.

Candidates should have a PhD in physics, a demonstrated excellence in research in experimental particle physics and experience in teaching and working with students.

The University of Hamburg is an equal opportunity/affirmative action employer and welcomes the applications from qualified women. Handicapped applicants will be given preference in case of equal qualifications.

The expected starting date is September 2001. Applications including a CV, academic records, teaching experience and the list of publications should be sent by May 2, 2001 to:

Präsident der Universität Hamburg
Referat Personal & Organisation - 332.11/12
Kennziffer 1732/3
Moorweidenstr. 18
D-20148 Hamburg

E-mail information: Robert.Klanner@desy.de

***The vital link between
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The world looks to the Stanford Linear Accelerator Center (SLAC) for world-class research in high-energy physics and synchrotron radiation programs. On behalf of the Department of Energy, the SLAC performs experimental and theoretical research that has the potential to alter the way we interact with the basic forces of the universe. To make certain all aspects of our story see the light of day, we are seeking a:

Director of Communications

Leading a staff of 10-15, will organize and lead the communications effort at the Laboratory. Reporting to the Head of the Laboratory, this individual will develop and implement policies and strategic directions for internal and external communications in support of the Laboratory's scientific and educational mission. This position will require you to have vision and experience with the management of all aspects of SLAC's internal and external communications. You will also develop and manage community and media relations to employee communications.

Requires 5+ years' management experience in a complex and diverse environment, preferably a scientific research environment; advanced knowledge of communications principles/methods; experience in media relations and conducting press conferences; excellent interpersonal and written/verbal communications skills; and a Master's in Communications, PR, Journalism or the equivalent.

SLAC offers competitive compensation and excellent benefits. Please send resumes to: **SLAC, Attn: Employment, 2575 Sand Hill Rd., Menlo Park, CA 94025, M/S 11, Fax: 650-926-4999.**

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SLAC

MIT

The MIT-Bates Linear Accelerator Center, operated by the Massachusetts Institute of Technology, is a high energy particle accelerator, performing world-class research in fundamental aspects of nuclear physics. It comprises a linear accelerator/recirculator system, a pulse stretcher/ storage ring, and experimental halls. The facility operates 24 hours a day, 7 days a week, for roughly 8 out of 12 months each year.

ACCELERATOR OPERATIONS GROUP LEADER

A motivated individual is sought to lead the Accelerator Operations Group. Responsibilities include coordinating daily control room activities; arranging shift schedules of the operations crews to guarantee 24/7 coverage; becoming qualified (through on-the-job training) to cover both Crew Chief and Operator Technician shifts and covering shifts as needed; training new Operators; writing and updating standard operating procedures; documenting operational efficiency; and working with accelerator Physicists, controls and instrumentation engineers, and laboratory management to improve accelerator operations.

Requirements: a BS degree or higher in Physics or a relevant engineering discipline or comparable experience. The capability to manage a group of professionals in a highly technical setting and excellent communications and interpersonal skills are essential. Additional desirable qualifications include experience supervising shift personnel and/or working shifts and familiarity with Unix and Windows operating systems, high voltage electronics, vacuum systems, and RF systems. In special situations, this appointment may be made at the Assistant Group Leader level.

MIT offers excellent benefits. This position is located in Middleton, MA. For more information about the MIT-Bates Linear Accelerator Center, visit: <http://mitbates.mit.edu>.

Interested candidates should submit a resume and cover letter referencing Job No. 01-0063 to: **Etaine Smith, MIT Human Resources, PO Box 391229, Cambridge, MA 02139-0013.** To apply on-line: web.mit.edu/personnel/www/resume.htm.



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Post Doctoral Position in Experimental Particle Astrophysics

The Fermi National Accelerator Laboratory (Fermilab) has an opening for a post doctoral research associate on the Cryogenic Dark Matter Search (CDMS). Data taking is currently underway at the Stanford Underground Facility (SUF) and will continue during 2001. Results from early running have already yielded the most competitive limits published for dark matter searches. Concurrently, a new installation is being prepared for CDMS II at a deep site located in the Soudan Laboratory in Northern Minnesota. Cryogenic detectors are expected to begin arriving at Soudan in 2001 for commissioning. Data taking will begin in 2002 and the full complement of 42 detectors is expected to be in place by 2004. Substantial coverage of the allowed SUSY parameter space will be possible in CDMS II due to a factor of 30 increase in sensitivity over the CDMS I. Opportunities are available for participating in the development of the data acquisition system, the experimental installation operations at Soudan, and in the data analysis for both SUF and Soudan data sets.

The appointment will be for 3 years with one year renewals possible thereafter. Every effort is made to keep Fermilab Research Associates until they have had the opportunity to obtain physics results from their experiments.

Applications should include a curriculum vitae, publication list and the names of three references. Applications and requests for information should be directed to Dr. Michael Albrow, Head-Experimental Physics Projects Department, Particle Physics Division [Albrow@fnal.gov], Fermi National Accelerator Laboratory, M.S. 122, P.O. Box 500, Batavia, IL 60510-0500. EOE M/F/D/V



Fermilab

POSTDOCTORAL POSITION IN EXPERIMENTAL PARTICLE PHYSICS

LAWRENCE BERKELEY NATIONAL LABORATORY

The Physics Division at LBNL has an opening for a postdoctoral physicist in the D-Zero Group. We seek an exceptionally talented individual who can play a strong role in the physics analysis of the data from Run 2 with the D-Zero Experiment at the Fermilab Tevatron Collider. This is a timely opportunity for a motivated researcher to explore fundamental physics at the world's highest energy collider.

Applicants should have a PhD in Experimental Particle Physics and demonstrate strong potential for outstanding achievement as an independent researcher. This is a two-year term appointment with the possibility of renewal.

Interested candidates should send a letter of application (refer to Job #PH/013194/JCERN), *curriculum vitae*, publication list, and three letters of recommendation to: Dr. Ronald J. Madaras, c/o Physics Division HR Administrator, MS 50-4037, Lawrence Berkeley National Laboratory, University of California, 1 Cyclotron Road, Berkeley, CA 94720. Berkeley Lab is an AA/EEO employer committed to a diverse workforce.



At the Instituut voor Kern- en Stralingsfysica of the University of Leuven

A POSTDOCTORAL POSITION IN EXPERIMENTAL NUCLEAR PHYSICS

is available.

This position is for two years with a possible extension and will be in connection with the WITCH experiment that is currently being set up at ISOLDE, CERN. The aim of this experiment is to search for physics beyond the standard electroweak model by performing high precision beta decay experiments. The position covers all areas of the experiment from setting it up at CERN and tuning to operation and data analysis. The experiment is in the context of a European collaboration and will make use of the beams of ISOLDE, CERN, Geneva.

Interested applicants should have a PhD in experimental nuclear physics and send their C.V. to Prof. N. Severijns, Instituut voor Kern- en Stralingsfysica, K.U. Leuven, Celestijnenlaan 200 D, B-3001 Leuven, Belgium, or e-mail it to nathal.severijns@fys.kuleuven.ac.be, no later than 30th April 2001.

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Further information can be obtained on our web page
<http://www.fys.kuleuven.ac.be/iks/ko>.

UNIVERSITY OF WÜRZBURG

PHD STUDENT

DEPARTMENT OF CARDIOLOGY, GERMAN CANCER RESEARCH CENTER HEIDELBERG

The interdisciplinary cardiac nuclear magnetic resonance group located at the Department of Cardiology (PD Wolfgang R. Bauer (MD, PhD), University of Würzburg) and at the German Cancer Research Center Heidelberg (Prof. Lothar Schad (PhD)) looks for a PhD (doctorand) student (physics) for a project funded by the Deutsche Forschungsgemeinschaft. The payment is BAT IIa/2.

The research is focused on the development of oxygenation (T2*, T2) and perfusion (T1) sensitive NMR imaging techniques of the heart. This is of special interest since these parameters reflect the state of myocardial microcirculation which is involved in many pathological processes of the heart (information on the web sites: <http://ernst.physik.uni-wuerzburg.de/~kh/AG.html> and <http://www.dkfz-heidelberg.de/mrphys/>). Applicants should hold a Masters or Diploma in Physics. Experience in NMR techniques is of advantage but not necessary.

Please remember to note that you refer to this advertisement in your application.

Applications should be sent to

PD Dr. Wolfgang R. Bauer

Medizinische Universitätsklinik Würzburg

Josef Schneider Str. 2, 97080 Würzburg, Germany

Tel.: +49-931-201-5327, Fax: +49-931-201-2291

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E-mail: andrew.hardie@iop.org

UNIVERSITY OF VICTORIA

POSTDOCTORAL RESEARCH ASSOCIATE POSITION IN EXPERIMENTAL HIGH ENERGY PHYSICS

The University of Victoria high energy physics group has a vacancy for a Research Associate position in experimental physics to work on software development for the ATLAS experiment. The group is developing object-oriented software for the analysis of test beam data for the hadronic endcap (liquid argon) calorimeter and contributing to the database development for the entire ATLAS liquid argon calorimeter. The group is very active in the calorimeter test beam R&D program and the analysis of the test beam data. The Victoria group is also exploring the use of LINUX farms and Grid software for the ATLAS physics analysis in Canada.

The position has a two-year term with a possible one-year extension and is available immediately. The successful candidate is expected to take a leading role in developing object oriented software for the calorimeter and take an active interest in the test beam program. Candidates should have a recent Ph.D. in particle physics and experience with UNIX and LINUX operating systems. Familiarity with the C++ programming language would be an asset. Further inquiries can be made to Prof. M. Lefebvre (lefebvre@uvic.ca), or Dr R. Sobie (rsobie@uvic.ca).

Applications will be accepted until the position is filled, and will be assured of full consideration if received by 30 April 2001. Interested candidates should send their curriculum vitae and arrange for two letters of recommendation to be sent to:

Dr Randall Sobie
Department of Physics and Astronomy
University of Victoria
P.O. Box 3055 Stn CSC
Victoria, BC CANADA V8W 3P6
e-mail: rsobie@uvic.ca
Telephone: (250) 721-7733
Fax (250) 721-7752

Applications will be accepted until the position is filled. In accordance with Canadian immigration regulations, priority will be given to Canadian citizens and permanent residents. All qualified individuals are encouraged to reply.

University of Pennsylvania

The ATLAS group at the University of Pennsylvania has a position open for a postdoctoral fellow to work on electronics for the Transition Radiation Tracker. While our responsibilities also include development of custom integrated circuits and printed circuit boards for those chips, the present activities focus increasingly on system tests of large size, as well as beam tests at very high particle rates. The successful candidate will have a strong interest in detector and/or electronic systems.

Interested candidates who possess a PhD. may contact Prof H. H. Williams (williams@williams.hep.upenn.edu, 215 898 6284) and/or the Web site <http://www.hep.upenn.edu/atlas> for additional details. They should send a CV and arrange for three letters of recommendation to be sent to

Prof. H. H. Williams,
Department of Physics,
University of Pennsylvania,
209 S. 33rd St, Philadelphia,
PA 19104.

The University of Pennsylvania is an equal opportunity employer and especially encourages applications from women and minorities.

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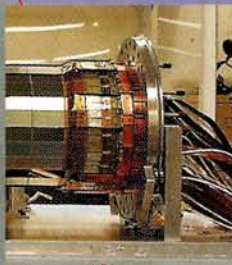
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