

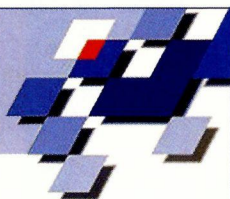
RECRUITMENT

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UNIVERSITÄT DORTMUND

FACHBEREICH PHYSIK



Im Fachbereich Physik ist zum 1.4.2004
eine Universitätsprofessur C4 für
Experimentelle Physik (Nachfolge Prof. Dr. D. Wegener)
wieder zu besetzen.

Der Forschungsschwerpunkt der Bewerber/Bewerberinnen sollte auf dem Gebiet der experimentellen Elementarteilchenphysik an Beschleunigern liegen.

Mitarbeit in Experimenten an Großforschungsanlagen wird erwartet; eine Beteiligung an Experimenten der Astro-Teilchenphysik wäre wünschenswert.

Eine Beteiligung an den Forschungsbändern der Universität Dortmund, z.B. dem Band „Modellbildung und Simulation“, ist möglich.

Ein angemessenes Mitwirken an Forschung, Lehre und Selbstverwaltung des Fachbereichs wird erwartet, ebenso Kooperationsbereitschaft mit den anderen experimentellen und theoretischen Arbeitsgruppen des Forschungsschwerpunkts Elementarteilchenphysik des Fachbereichs.

Bewerber/Bewerberinnen müssen die Einstellungs Voraussetzungen gem. § 46 des Gesetzes über die wissenschaftlichen Hochschulen des Landes NRW (Habilitation oder habilitationsadäquate Leistungen) erfüllen.

Die Universität Dortmund strebt eine Erhöhung des Anteils von Frauen in Forschung und Lehre an und bittet deshalb Wissenschaftlerinnen nachdrücklich um ihre Bewerbung.

Die Bewerbung geeigneter Schwerbehinderter ist erwünscht. Bewerbungen mit Lebenslauf, wissenschaftlichem Werdegang, Schriftenverzeichnis und Angaben über die bisherige Lehrtätigkeit sind bis zum 7.12.2002 zu richten an den
Dekan des Fachbereichs Physik der Universität Dortmund, D-44221 Dortmund.



PAUL SCHERRER INSTITUT

research for the future

**Responsible
for the section**

Accelerator Control Systems

Your tasks

- Management and technical leadership of the section with approx. 20 employees
- Support the operation needs of the synchrotron light source and the proton accelerator
- Insure that the control systems satisfy the stringent demands concerning the high availability and ease of daily accelerator operation
- Responsibility for the specification and realization of control systems for the future accelerator projects

Your profile

You have a degree in electrical engineering, physics, computer science or related fields and have had some experience with accelerator control systems. You have demonstrated your interest and success in research, development and management during your career. Hardware and software have to be maintained up to date to meet constantly increasing user requirements, and we offer you the opportunity of being the driving force in developing and modernizing of the accelerator control systems. If you are fascinated to work on innovative technical developments in a complex, department overlapping field of activity, we are looking forward to your letter of application.

For further information, please contact Dr. Leonid Rivkin, Tel. +41 56 310 32 14, e-mail: leonid.rivkin@psi.ch

Please send your application to: PAUL SCHERRER INSTITUT, Human Resources, att. Mr. Thomas Erb, Ref. code 8430, 5232 Villigen PSI, Switzerland.

Further jobs: www.psi.ch

POSTDOCTORAL CANDIDATE

The Physics Division of the Lawrence Berkeley National Laboratory is seeking a postdoctoral candidate to participate in the ATLAS Experiment at the Large Hadron Collider at CERN. The Physics Division has important roles in the silicon strip detector and silicon pixel detector for ATLAS and requires a candidate to work on assembly and testing at Berkeley Lab. The successful candidate will also have the opportunity to be involved in data analysis from one of the ongoing experiments with Berkeley Lab participation. This is a two-year term position with possibility of renewal and requires frequent travel to CERN.

To qualify, you should have a PhD in Experimental High Energy Physics or equivalent experience and demonstrated strong potential for outstanding achievement as an independent researcher. Experience with silicon detector systems or other complex electronics/detector systems is preferred.

Candidates should submit an application with CV and three letters of recommendation via e-mail to gensciemployment@lbl.gov (no attachments) or mail to Lawrence Berkeley National Laboratory, Attn: Madelyn Bello, One Cyclotron Road, MS 50A4037, Berkeley, CA 94720-8152. Applications and letters should reference Job # PH/015204/JCERN. Berkeley Lab is an EEO/AA employer.



CORNELL

FACULTY POSITION IN THEORETICAL PARTICLE PHYSICS

The Department of Physics at Cornell University invites applications for a tenure-track Assistant Professor appointment in theoretical particle physics, to begin in Fall 2003 or later. Outstanding applications at a more senior level may be considered in exceptional cases. We are seeking highly qualified candidates committed to a career in research and teaching. We are encouraging applications from candidates with interests in any area of high-energy physics, including string theory, physics beyond the Standard Model, and Standard model physics.

Applicants should send their curriculum vitae, publication list, a brief description of their research interests, and arrange for three letters of reference to be sent to:

Prof Matthias Neubert, Search Committee Chair, Newman Laboratory of Elementary-Particle Physics, Cornell University, Ithaca, NY 14853

Applications received before November 1, 2002 will receive fullest consideration, although later applications may also be taken into account.

Cornell University is an equal opportunity, affirmative action employer.

Culham

Vacuum Systems Section Leader

Salary to £48,000



Be part of it: UKAEA Culham Division carries out research into controlled nuclear fusion as a future energy source. The research devices at Culham include JET, the largest fusion machine in the world, operated by UKAEA on behalf of the European Fusion Development Agreement (EFDA). The Vacuum System Section is responsible for many of the Torus systems, which include; vacuum vessel integrity, plasma fuelling, vessel conditioning and vacuum pumping.

The position: You will manage and lead the Vacuum Systems Section staff to ensure effective operation of existing systems and implementation of new systems. Acting as a Senior Vacuum specialist at Culham, you will provide expert advice on vacuum matters to other groups at Culham and also to European Associations providing enhancements to JET. With involvement in the conceptual design and upgrade of new systems from the development through to commissioning, you will also act as Project Manager for procurement contracts and manage staff performing installation work.

Requirements: Qualified to degree level in engineering or applied physics, you will have significant professional engineering experience gained from working in a multi-disciplinary environment. Specific experience of UHV technology is required and you should have recognised expertise in the field of vacuum science. Experience of mechanical design, cryogenics, surface science, control or software engineering would be an advantage. You must have good leadership skills and the ability to work well as part of a team.

Contact: To apply, please send your CV to Robert Pearce, Head of Vacuum Systems and Machine Operations, J20/0/41, Culham Science Centre, Abingdon, Oxfordshire OX14 3DB or by e-mail to robert.pearce@jet.uk quoting reference CD/MO/13.

Closing date: 8th November 2002.

UKAEA strives to be an equal opportunity employer



www.ukaea.org.uk



Job Opportunities on Diamond

An opportunity to join the Diamond Light Source team !

The Diamond synchrotron light source is the largest scientific facility to be built in the UK for over thirty years and will be located at Rutherford Appleton Laboratory in Oxfordshire. The Diamond facility will consist of three accelerators - a 100 MeV linac, a 3 GeV booster synchrotron and a 562 m circumference 3 GeV storage ring. Diamond should be operational towards the end of 2006 with an initial complement of 7 synchrotron radiation beamlines.

Diamond Light Source Ltd., the joint venture company responsible for the construction and operation of Diamond, has a number of openings for physicists and engineers of different grades within the Diamond Technical Division:

Group Leader Positions

DLS0003 Group Leader for accelerator physics
DLS0004 Group Leader for d.c. and pulsed magnets
DLS0005 Group Leader for vacuum
DLS0006 Group Leader for radio-frequency and linac systems
DLS0007 Group Leader for beam diagnostic and feedback systems

Other Positions

DLS0008 Accelerator physicists
DLS0009 Vacuum scientists and engineers
DLS0010 Vacuum technicians
DLS0011 Radiofrequency and linear accelerator systems physicists/engineers
DLS0012 Physicists/engineers for magnet systems

DLS0013 Physicist for insertion device systems
DLS0014 Beam diagnostic physicist/engineers
DLS0015 Control system electronics engineers
DLS0016 Control system software engineers
DLS0017 Control system relational database software engineer
DLS0018 Mechanical project engineers
DLS0019 Mechanical design engineers
DLS0020 Electrical project engineers
DLS0021 Electrical design engineers
DLS0022 CAD/CAE Systems manager
DLS0023 Power supply engineers
DLS0024 Health physicists

Salary on appointment will be made on the following scales depending on qualifications and experience: Grade 3 (Group Leader): £33,860-£46,560; Grade 4: £27,840-£38,290; Grade 5: £21,940-£30,160; Grade 6: £16,920-£23,490. See detailed job descriptions for details.

Successful candidates for all posts are likely to have self motivation, ability to work effectively in a team and good interpersonal and communication skills as well as academic qualifications appropriate to the specific post. Group leaders will also be expected to have good project and people management skills. Relevant experience, preferably in an accelerator environment, is highly desirable but not essential in all cases as appropriate training will be given.

Appointments will be made by Diamond Light Source Ltd. Posts will be based at CLRC's Rutherford Appleton Laboratory. It may be necessary for some time to be spent initially at CLRC's Daresbury Laboratory near Warrington, Cheshire.

For an informal discussion about any of these posts please contact in the first instance Emma Medlock, PA to the Technical Director, Tel: +44 (0)1235 446992 or E.mail: emma.medlock@diamond.ac.uk

Further information about these and future posts, and how to apply, is available from our web site at: <http://www.diamond.ac.uk> or can be obtained from: HR Operations, Human Resources Division, Rutherford Appleton Laboratory, Chilton, Didcot, Oxfordshire, OX11 0QX. Telephone +44 (0)1235 445435 (answerphone) or E.mail recruitment@diamond.ac.uk quoting the appropriate vacancy number. This information will be available from Friday 18th October.

Applications must be received by 12:00 midday on Monday 11th November 2002.





UNIVERSITY OF
WISCONSIN
MADISON

MATHEMATICAL PHYSICS/STRING THEORY CLUSTER HIRING

The Department of Mathematics and Physics anticipate an opening for one or two positions to begin August 25, 2003, at either the tenure track (assistant professor) or tenured (associate/full professor) level. This cluster hiring is a part of the Madison Initiative and is intended to establish a prominent research group connecting the existing groups in particle physics phenomenology in the Physics Department and topology/geometry in the Mathematics Department. Applications are especially encouraged from theorists pursuing innovative research in string theory quantum gravity, physics with extra dimensions, quantum field theory, supersymmetry, and unification theories; as well as from mathematicians working on aspects of string theory or related topics. Successful candidates will be encouraged to participate in interdisciplinary research which will strengthen ties between the two departments. Joint appointments in the Mathematics and Physics Departments are contemplated.

Candidates should exhibit evidence of outstanding research records, normally including achievements significantly beyond the doctoral dissertation. A strong commitment to excellence in instruction at both undergraduate and graduate levels is also expected. Applicants should send a curriculum vitae which includes a publication list, and brief descriptions of research and teaching accomplishments and goals to:

**Math/Physics Cluster Hiring Committee Dept. of Mathematics,
Van Vleck Hall University of Wisconsin Madison
480 Lincoln Drive Madison, WI 53706-1388**

Applicants should also arrange to send to the above address, three letters of recommendation, which should address the applicant's research potential and teaching experiences. Review of applications will begin on November 1, 2002. Applications will be accepted until the positions are filled. Additional letters will be solicited by the hiring committee for senior appointments.

The Departments of Mathematics and Physics are committed to increasing the number of women and minority faculty. The University of Wisconsin is an Affirmative Action, Equal Opportunity Employer and encourages applications from women and minorities. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

Additional departmental information is available on the websites
<http://www.math.wisc.edu>; <http://www.physics.wisc.edu>
Information about the cluster hiring initiative is available at
<http://wiscinfo.doit.wisc.edu/cluster/>

MIT

POSTDOCTORAL ASSOCIATE

The MIT/Bates Linear Accelerator Center in Middleton, Massachusetts is a user laboratory providing polarized electron beams of up to 1 GeV for Nuclear and Hadron Physics research. A storage ring provides CW currents above 100 mA on polarized internal targets and a new large-acceptance spectrometer, BLAST.

We are searching for a postdoctoral candidate in accelerator physics to participate in the operation, upgrade, and optimization of the Bates beam delivery system with emphasis on new lattices and energy ranges of the storage ring. There are also opportunities to work on a self-polarizing 10 GeV electron storage ring design for a high-luminosity electron-ion collider (EIC) envisaged to be built at the Brookhaven RHIC facility.

The successful candidate is expected to have a PhD in accelerator physics or equivalent expertise in electron storage ring design. Experience in electron self-polarization is desirable. Should be comfortable working in a small accelerator physics group participating in the operational needs of the laboratory.

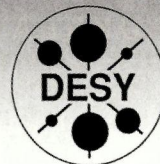
Interested candidates may apply online at: web.mit.edu/personnel/www/resume.htm. If you do not have access to the web, a cover letter and resume may be submitted to: MIT Human Resources, Job No. 02-0776, PO Box 391229, Cambridge, MA 02139-0013. EOE.



MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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Deutsches Elektronen-Synchrotron
Research at HASYLAB



DESY is one of the leading accelerator centers worldwide. The research spectrum ranges from elementary particle physics and solid state physics to molecular biology.

Particle accelerators produce most brilliant electromagnetic radiation for a variety of innovative applications. For a research position at the Hamburger Synchrotronstrahlungslabor HASYLAB we are seeking a

Beamline scientist for synchrotron radiation research – PETRA III project

for a permanent position.

HASYLAB is operating 40 beamlines with more than 80 different instruments at the storage rings DORIS and PETRA. To satisfy the growing need for high brilliance undulator radiation in future DESY plans to convert PETRA to a dedicated third generation synchrotron radiation source starting in 2007.

To compile the proposal for the new undulator beamlines and to establish a new field of research at PETRA III we are seeking a recognised scientist capable of designing and building beamlines and experimental stations. The successful applicant may use 1/3 of his/her time for own research projects. The applicant is expected to hold a degree in physics or a comparable qualification. Long-standing experience in operation and development of synchrotron radiation beamlines is required.

Salary and benefits are commensurate with public service organisations (BAT 1b). DESY operates flexible work schemes, such as flexitime or part-time work.

DESY is an equal opportunity, affirmative action employer and encourages applications from women.

Deutsches Elektronen-Synchrotron DESY
member of the Helmholtz Association

code: 133/2002 • Notkestraße 85 • D-22603 Hamburg • Germany
Phone +49 (0) 40 8998-4534 • www.desy.de
email: personal.abteilung@desy.de

Deadline for applicants: 15.12.2002

U+H



**University of Hamburg
Institute for Experimental Physics**

ZEUS Experiment and Detector Development

The Group ZEUS Detector and Detector Development at the Institute of Experimental Physics invites applications for a

Wissenschaftlicher Assistent (C1)

The position is open for three years, starting 1st January 2002 with the possibility of an extension by another three years.

The candidate is expected to play an important role in the running and analysis of data from the ZEUS experiment. Active participation in the development programme on solid state detectors for future accelerators is welcome. The teaching requirement is 4 hours/week during the semester which includes tutoring, labs, seminars and the supervision of diploma and PhD students.

Candidates should have an excellent PhD in experimental particle physics.

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

Applications including a CV, academic records and list of publications should be sent by 1st December 2002 to:

**Prof. Dr. B. Sonntag, Inst. für Experimentalphysik,
Luruper Chaussee 149, D-22761 Hamburg**

Further information can be obtained from Robert.Klanner@desy.de or under +49 40 8998 2558

Computer Center Director (Position #PR2031)

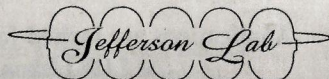
Thomas Jefferson National Accelerator Facility is a DOE-sponsored laboratory operated by the Southeastern Universities Research Association. Jefferson Lab's primary mission is to study strongly interacting matter with multi-GeV electromagnetic probes. The experimental program includes both high energy nuclear physics and low energy particle physics. The Laboratory routinely operates up to 5.7 GeV beam energy.

Jefferson Lab is seeking a qualified individual to head the lab-wide Computer Center. The successful applicant will be responsible for the management and operation of the Center whose key functions include design, implementation and operation of the petabyte scale off-line data reduction facilities, general scientific computational and networking environment, and business and scientific desktop environments. In addition, the Center includes helpdesk, telecommunications and cyber security functions. The successful applicant will also be responsible for leadership and management of the Computer Center staff, interactions regarding computing with the divisions and departments across the Lab, and with the Lab's user community and collaborating institutions.

Minimum qualifications include a Ph.D. in Nuclear or High Energy Physics plus 7 years experience, or the equivalent combination of education and relevant experience. Two to three years of management experience and three to five years experience programming and performing systems work in a scientific research, engineering or similar environment are desired. Excellent written and verbal communication skills are essential.

For prompt consideration, please send resume and salary history to: Jefferson Lab, ATTN: Human Resources Administrator, 12000 Jefferson Avenue, Newport News, VA 23606, Fax: 757-269-7559, E-mail: jobline@jlab.org. Please specify position number and job title when applying. **For more information on this position, contact Dr. Roy Whitney (whitney@jlab.org).**

*Proud to be an Equal Opportunity,
Affirmative Action Employer*



The Institute of Particle Physics of Canada – Research Scientist

Applications are invited for a position as a Research Scientist with the Institute of Particle Physics of Canada (IPP). Candidates should preferably have three years of postdoctoral experience and a demonstrated record of accomplishment in experimental high energy particle physics. The Research Scientist appointment is associated with an academic research position at a Canadian University and includes the right to hold research grants and to supervise graduate students. This position can become permanent after three years of employment.

Research Scientists are expected to participate in the IPP Program. The current core experiments of the program are:

- **p-p collisions at the LHC (ATLAS)**
- **neutrino physics with the SNO detector**
- **e-p collisions at HERA (ZEUS)**
- **p-p collisions at the TEVATRON (CDF)**
- **B physics at the SLAC B-factory (BABAR)**
- **rare kaon decays at Brookhaven (E949)**

For further information see the website <http://www.ipp.ca>.

The choice of experiment and university affiliation will be determined by mutual agreement between the candidate and the IPP.

Send a curriculum vitae and a statement of research interests, and arrange to have at least three letters of reference sent, for receipt before January 15, 2003, to:

Prof. R.K. Keeler, Director
Institute of Particle Physics
Department of Physics and Astronomy
University of Victoria
P.O. Box 3055 Stn Csc
Victoria, BC V8W 3P6 Canada
fax: 250-721-7752
email: rkeeler@uvic.ca



In accordance with immigration regulations, preference will be given to citizens or permanent residents of Canada.

EUROPEAN SYNCHROTRON RADIATION FACILITY



Opportunities at Europe's 3rd generation synchrotron

Scientist and Post-doctoral positions at the ESRF in Grenoble, France

Take advantage of pursuing research in a unique international environment in France at the ESRF. Our facility operates one of the brightest X-ray sources in the world and it is used by several thousand scientists for both fundamental and applied research, in a wide range of disciplines:

Physics, Chemistry, Crystallography, Earth Science, Structural Biology and Medicine, Surface and Materials Science...

You will be provided with the means to develop your own research and to operate your team's beamline. You will work in close contact with, and advise, external users, which will give you the possibility to form useful collaborations.

We also offer PhD positions.

Have a look at our website for a full description of our vacancies and activities: <http://www.esrf.fr>, and contact us at recruitm@esrf.fr or fax #: +33 (0)4 76 88 24 60

ESRF, Personnel Service, BP220, F-38043,
Grenoble cedex 9, FRANCE.



PAUL SCHERRER INSTITUT

research for the future

Physicist or Engineer ETH

Your Tasks

- Participation in the design, fabrication, testing and commissioning of components for RF-systems of the PSI accelerators
- Cooperation in the continuing development, performance optimization and maintenance of RF equipment and subsystems, with emphasis on the Synchrotron Light Source (SLS) RF systems.
- Taking full responsibility for a subsystem of an accelerator RF system, after suitable introduction and training.

Your Profile

You have a degree in physics or engineering (preferably RF or telecommunication). A solid experience in the field of RF systems for particle accelerators, as well as a background in the utilization of numerical tools used for RF system design (components and structures) would be an advantage. Emphasis is placed on your ability to work in a team efficiently. We would also like you to contribute to the overall performance of the RF section with creative and new ideas.

Dr. M. Pedrozzi will be pleased to answer any questions concerning this position. His phone number is: +41 056 310 32 42, e-mail: marco.pedrozzi@psi.ch

We are looking forward to your application: PAUL SCHERRER INSTITUTE, Human Resources, Mr. Thomas Erb, ref. code 851, 5232 Villigen PSI, Switzerland

Further jobs: www.psi.ch

Faculty Position High Energy Theoretical Physicist Department of Physics University of California, Davis

The Department of Physics at the University of California at Davis invites applications for a faculty position in theoretical high energy physics. Appointment at any level is possible depending upon qualifications and experience. The successful candidate will be the first of three planned new appointments directed toward pursuit of exciting new ideas and challenges associated with the interface between formal theory and phenomenology. Priority will be given to candidates with recognized leadership in this area and the ability to help plan and implement the High Energy Frontier Theory Initiative (HEFTI). The successful candidate should also have a strong interest in interpreting new phenomena as the relevant experimental data becomes available. Interaction and overlap with the particle cosmology group is anticipated. A formal High Energy Frontier Theory Institute is a strong possibility.

The existing high energy group consists of five theoretical and six experimental faculty. The theorists have a broad spectrum of interests including supercollider physics and phenomenology, supersymmetric modeling and superstring phenomenology, Higgs physics, brane models, lattice QCD, weak-interaction and heavy quark physics, solvable models, and quantum gravity. The experimentalists have major efforts at Fermilab and are active members of the LHC CMS collaboration.

The successful candidate will have a Ph.D. in physics or the equivalent and be expected to teach at the undergraduate and graduate levels.

This position is open until filled; but to assure full consideration, applications should be received no later than January 2, 2003. The targeted starting date for appointment is July 1, 2003. To initiate the application process, please mail your curriculum vitae, publication list, research statement, and the names (including address, e-mail, fax, and phone number) of three or more references to:

**Professor Winston Ko, Chair
Department of Physics
University of California, Davis
One Shields Avenue
Davis, CA 95616-8677**

Further information about the department may be found on our website at <http://www.physics.ucdavis.edu>.

The University of California is an affirmative action/equal opportunity employer. The University undertakes affirmative action to assure equal employment opportunity for minorities and women, for persons with disabilities, and for special disabled veterans, Vietnam era veterans, and any other veterans who served on active duty during a war or in a campaign or expedition for which a campaign badge has been authorized.



**University
of Durham**

**Institute for Particle
Physics Phenomenology**

Postdoctoral Research Associates in Phenomenology

The Institute for Particle Physics Phenomenology (IPPP), a joint venture of the University of Durham and the UK Particle Physics and Astronomy Research Council (PPARC) was established in October 2000. A number of Postdoctoral Research Positions will be available from next year.

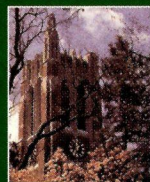
The successful candidates will have excellent research records in any area of particle physics phenomenology, and will have an important role to play in the establishment of the Institute as a world-class centre of phenomenology research and a key facility for the UK particle physics community.

The positions are tenable from 1 October 2003, or from an earlier or later date by agreement. Applications should be sent to:

**Professor W J Stirling, Director, IPPP, Department of Physics,
University of Durham, Durham DH1 3LE, United Kingdom**

to arrive no later than 10 January 2003. Applications should include a Curriculum Vita, a list of publications, and a brief description of research achievements and goals. Candidates should arrange to have 3 letters of recommendation sent to the above address.

For further information see www.ippp.dur.ac.uk



MECHANICAL ENGINEER NATIONAL SUPERCONDUCTING CYCLOTRON LABORATORY MICHIGAN STATE UNIVERSITY

The National Superconducting Cyclotron Laboratory of Michigan State University has a staff of approximately 130 people and is funded by the National Science Foundation for research in nuclear/accelerator physics and related instrumentation. We seek a mechanical engineer with experience in scientific research instrumentation and/or accelerator design.

Required: A minimum of a Bachelor's degree in mechanical engineering and 10 years experience in design and production of physics research instrumentation and/or accelerator equipment, or equivalent work in a related field.

Candidates must be capable of producing innovative design solutions to accomplish the conceptual requirements of the NSCL scientific program, be self-motivated to maintain schedules, have the capacity to participate in several projects simultaneously and be able to supervise/direct the work of support personnel.

Appointment level and salary will be commensurate with experience, demonstrated capability and the overall NSCL salary structure.

To Apply: Send resume plus names/contact points of three professional references to

Ms. M. Chris Townsend, Laboratory Administrator,
National Superconducting Cyclotron Laboratory,
Michigan State University,
East Lansing, MI 48824-1321
or e-mail mechanicalengineer@nscl.msu.edu.

For information about our Lab, see <http://www.nscl.msu.edu>.

Michigan State University is an affirmative action/equal opportunity institution.



Applications are invited for a post-doctoral position at LIP-Lisbon (www.lip.pt).

The position is funded by the European Research Training Network 'Physics Reconstruction and Selection at the Large Hadron Collider' (<http://cern.ch/spicas/PRSATLHC>).

The main purpose of the proposed network is to study, design and implement the physics event selection of the CMS experiment in the LHC environment.

The position will be given for 2 to 3 years with a highly competitive salary determined according to qualification. Qualifications required include a PhD or equivalent in High Energy Physics, and a clear demonstration of the ability to carry out a research program. Knowledge of modern programming techniques, Object-Oriented software and C++ will be an asset.

Applicants must satisfy the EU RTN eligibility criteria (<http://www.cordis.lu/improving/networks/faq.htm#q5>).

The position will remain open until suitable candidates are found.

Applications, including CV and reference letters, should be sent to:
**Laboratory for Instrumentation and Experimental Particle Physics
Research Training Network-PRSATLHC
Av. Elias Garcia, n° 14 -1°, 1000-149 LISBON, PORTUGAL
e-mail: natalia@lip.pt**



Department of Physics

Postdoctoral Position - Search Extended

The Particle astrophysics group has an opening for a postdoctoral scholar. The successful candidate will join the group's research effort in the Pierre Auger Cosmic Ray Observatory. Prior experience with cosmic ray data analysis, electronics, atmospheric monitoring, or stellar photometry is desirable. A Ph.D. in Physics or Astronomy is required. Applicants should send their curriculum vitae, publication list, and statement of research interests, and should have 3 letters of reference sent to Prof. David Nitz (dfnitz@mtu.edu), Department of Physics, Michigan Technological University, 1400 Townsend Drive, Houghton, MI 49931-1295. Applications will be accepted until the position is filled.

Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.



POSTDOCTORAL RESEARCH FELLOW EXPERIMENTAL HIGH ENERGY PHYSICS

The High Energy Physics Laboratory at Harvard University has three openings for Postdoctoral Research Fellows. Our research program is funded by the U.S. Department of Energy and includes the ATLAS Experiment at the Large Hadron Collider, studies of proton-antiproton interactions using the Fermilab CDF detector, of neutrino interactions in the MINOS experiment at Fermilab/Soudan, and of e^+e^- collisions with the SLAC Babar detector.

The first opening is with the ATLAS experiment. The successful candidate will be expected to develop software tools and their integration into a grid-based environment for LHC Computing (and other applications). This position also has flexibility to explore interesting new physics signatures expected at the electro-weak symmetry breaking scale. For questions regarding this opening please contact **Prof. John Huth** huth@physics.harvard.edu.

The second opening is with the CDF experiment. The successful candidate will work on physics analyses and Run2b upgrade electronics. For questions regarding this opening please contact **Prof. Andy Foland** foland@physics.harvard.edu or **Prof. Melissa Franklin** franklin@physics.harvard.edu.

The third opening is with the MINOS experiment. The successful candidate will work on reconstruction and analysis software and other activities depending on the candidate's interests and abilities. For questions regarding this opening please contact **Prof. Gary Feldman** feldman@physics.harvard.edu.

For these positions experience with state-of-the-art detector systems and with the analysis software of a particle physics experiment are appreciated. Interested applicants should send their CV, a statement of interest, and arrange to have three (3) letters of reference sent to:



Dr. George W. Brandenburg, Director
brandenburg@huhepl.harvard.edu
High Energy Physics Laboratory,
Harvard University
42 Oxford Street, Cambridge, MA 02138.

Harvard is an equal opportunity, affirmative action employer.

POSTDOCTORAL FELLOW CENTER FOR COSMOLOGICAL PHYSICS

The NSF established the Center for Cosmological Physics (CfCP) at the University of Chicago in August 2001. Research at the Center focuses on interdisciplinary topics in cosmological physics: characterizing the Dark Energy, studying the inflationary era, and understanding the highest energy cosmic rays. Studies of the CMB (polarization anisotropies and the Sunyaev-Zeldovich effect) and Cosmic Infrared Background; analysis of Sloan Digital Sky Survey and other large-scale structure data; high energy astrophysics with photons and cosmic rays, direct detection of DM particles and numerous topics in theoretical cosmology constitute the current slate of activities. The CfCP has active visitors, symposia, and education/ outreach programs.

Up to three Fellow positions are now open. Center Fellows have the freedom to work on any of the efforts in our Center.

We seek candidates with a recent Ph.D. in physics, astrophysics, or related fields, with an interest in pursuing experimental or theoretical interdisciplinary research in cosmology. Prior experience in Cosmological Physics is not a requirement. Positions are for two years, with possible renewal for a third.

A CV, statement of research interests, and at least three letters of recommendation should be sent to centerfellow@cfcp.uchicago.edu or to **Bruce Winstein, Director, Center for Cosmological Physics, Enrico Fermi Institute, 5640 S. Ellis Avenue, Chicago, IL 60637.**

Information about the CfCP can be found at <http://cfcp.uchicago.edu/>.

Women and minorities are encouraged to apply.

The deadline is December 1, 2002 for positions that will begin in the Summer or Fall of 2003.

THE UNIVERSITY OF CHICAGO

TENURE RESEARCHER POSITION FOR RHIC PHENIX

RIKEN (The Institute of Physical and Chemical Research) invites applications for a tenure researcher position at the laboratory for experimental nuclear/hadron physics. The successful applicant is supposed to be resident at Brookhaven National Laboratory and play a leading role to carry out our experimental activities using polarized proton collisions and heavy ion collisions at Relativistic Heavy Ion Collider RHIC.

In this program we are involved in the PHENIX experiment, and other activities related to the polarized proton acceleration. He/she is also expected to develop and lead future activities of our laboratory which consists of about 20 physicists. Applicants must have Ph.D. and excellent background in experimental nuclear/particle physics.

Interested candidates should send a vitae (photo attached), list of publication, copies of the important publications (less than 5), two letters of recommendation, abstract of the research history and description of research interest to

Dr. H. En'yo, Radiation Laboratory, RIKEN, Hirosawa 2-1, Wako, Saitama 351-0198 Japan, before 30th of November 2002.

Email submission in PDF format is also accepted for applicants outside Japan.

For further information contact **Hideto En'yo: Fax: +81-48-462-4641, E-mail: enyo@riken.go.jp, or refer <http://www.riken.go.jp/> and <http://www.rarf.riken.go.jp/lab/radiation/>.**



UNIVERSITY OF FLORIDA

FACULTY POSITION EXPERIMENTAL PARTICLE ASTROPHYSICS

The Department of Physics, University of Florida, invites applications for a tenure-track Assistant or Associate Professor in the field of Experimental Particle Astrophysics. More senior candidates may be considered in exceptional circumstances. The successful candidate will have a PhD degree, or equivalent, and postdoctoral experience, will be able to teach physics effectively at all levels, and will play a leadership role in a new experimental research effort. Specific examples of research programs of interest include high-energy cosmic rays, cosmic microwave background observations, non-accelerator based neutrino studies, gamma ray astronomy, dark matter searches and gravitational wave detection. Further faculty hires in the field are anticipated. The successful candidate will join an active faculty housed in a new physics building with extensive laboratory space and computer facilities.

Applicants should submit a CV, publication list, and a statement of research interests and plans, and should arrange to have at least three letters of recommendation sent. All correspondence should be sent to:

**Chair, EPA Search Committee, Department of Physics,
PO Box 118440, University of Florida, Gainesville, FL 32611-8440.**

To ensure full consideration, all application materials should be received by January 15, 2003.

Women and underrepresented minorities are strongly encouraged to apply. *The University of Florida is an Affirmative Action/Equal Opportunity Employer.*

For further details on this position, please see:
<http://www.phys.ufl.edu/departments/jobs/epasearch.html>



**Postdoctoral Research Associate
Experimental High Energy Physics
Florida State University**



We have an immediate opening for a postdoctoral research associate to work on the Fermilab D0 experiment. The successful candidate will contribute to the silicon track trigger (displaced vertex trigger) and the Run IIb trigger upgrade, as well as to a physics project of her/his choice, take data-collection shifts, and be resident at Fermilab.

Further information and application instructions are available from

Professor Susan Blessing (blessing@hep.fsu.edu)
or www.hep.fsu.edu/~blessing/postdoc.html.

Review of applications will begin immediately and continue until the position is filled.

Florida State University is an affirmative action/equal opportunity employer.



Duke University

Faculty Position in Experiment High Energy Physics

Duke University is seeking to fill a faculty position at the Junior (tenure-track assistant professor) or Senior (tenured associate or full professor) level in the area of experimental high energy physics.

The Duke High Energy Physics group currently has a major research program in hadron collider physics through participation in the CDF and ATLAS experiments.

We are seeking candidates with outstanding records and exceptional promise for future growth in a new area such as neutrino physics. A strong commitment to excellence in teaching at both the undergraduate and graduate level is also expected. The position is available starting September 2003.

Applications received by January 15, 2003 will be guaranteed consideration.

Please send a resume and research statement to

High Energy Physics Search Committee, c/o Prof. Seog Oh,
Department of Physics, Box 90305, Duke University,
Durham, NC 27708, USA
(email: seog@phy.duke.edu).

Junior candidates should arrange to have three reference letters sent to the same address. Senior candidates should supply the names of up to three references.

Duke University is an affirmative action/equal opportunity educator and employer.

Computational Science Fellow

The Fermilab scientific program relies on advanced computational techniques and methods as an enabling technology towards achieving its scientific goals: for the simulation of accelerators, detectors and physics processes; for the development of the experiment data acquisition, data handling and processing frameworks; for the algorithms and methodologies to extract the physics results from the raw and processed data. The Fermilab Computational Science Fellows Program is designed to attract outstanding computational and computer scientists and provide an opportunity for mutually beneficial collaboration with Fermilab staff members and users. The goal is to provide direct benefit to the laboratory's current and future programs. Each Fellowship will have a duration of up to two years. Candidates must submit proposals describing their joint project with their Fermilab collaborator(s), a curriculum vitae, and a list of four references. Applications and requests for information should be sent to: Ruth Pordes, Chair, Computational Science Fellows Committee. (ruth@fnal.gov), Fermi National Accelerator Laboratory, MS 369, P.O. Box 500, Batavia, IL 60510-0500. EOE/M/F/D/V



Fermilab

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