

RECRUTEMENT

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Imperial College London

Department of Physics
Astrophysics Group

Lecturer/Senior Lecturer in Astroparticle Physics

As part of an expansion of the experimental programme within the Astrophysics Group of the Blackett Laboratory, a Lecturer/Senior Lecturer position has become available. We are looking for a scientist with an excellent national and international scientific reputation in an astroparticle physics field, and preferably direct dark matter searches.

You will be expected to show evidence of leadership and creativity in science. Furthermore, you will be enthusiastic about developing the dark matter programme within the overall framework of the Group, in this, a 6* Department of Physics. You will be expected to demonstrate a commitment to teaching excellence for both undergraduate and postgraduate students. Further details of the research group can be found at <http://www.imperial.ac.uk/research/astro/>

Starting date will be by negotiation, but it is hoped that the post will be filled by 1 March 2005. Salary will be in the range £35,001 - £39,094 for appointment at the Lecturer level. The starting salary at a Senior Lecturer level will be £42,498. For the first three years the post will be jointly funded by CCLRC Rutherford Appleton Laboratory.

Further particulars of this appointment and an application form are on <http://www.imperial.ac.uk/employment/academic/index.htm>. Completed applications should include (1) a curriculum vitae, (2) a list of publications, (3) a statement of research interests and (4) the names and addresses of three referees. They should be sent to Ms Diana Moore, Department of Physics, Blackett Laboratory, Imperial College London SW7 2AZ, UK. Email: diana.moore@imperial.ac.uk

Closing date: 1 December 2004.

Interviews: January 2005.

Valuing diversity and committed to equality of opportunity



Director US Particle Accelerator School

The Board of Governors of the US Particle Accelerator School seeks a new school Director to serve a four-year renewable term starting in January 2006. The Director of the USPAS is responsible for establishing the school program and executing two academic sessions per year. He/she is assisted in this task by a standing Program Committee and the USPAS Office. The Director holds responsibility for management of the USPAS Office, situated at Fermilab. While the Director is appointed by the Board of Governors, he/she institutionally reports to the Fermilab Director. To ensure the candidate's career continuity, flexible institutional arrangements are available. Salary will be commensurate with the candidate's experience and qualifications.

Interested parties should please contact:

Dr. Derek I. Lowenstein, Chair, USPAS Director Search Committee,
c/o Fermi National Accelerator Laboratory MS125,
P.O. Box 500, Batavia, IL 60510.
E-mail: lowenstein@bnl.gov

Max Planck Institute for Physics

(Werner Heisenberg Institute)



MAX-PLANCK-GESELLSCHAFT

The Max-Planck-Institut für Physik (Werner-Heisenberg-Institut) in Munich, Germany, is seeking a

Coordinating Scientist

for the

International Max Planck Research School (IMPRS)

Elementary Particle Physics:

Theoretical, Experimental and Cosmological Frontiers

This school is a joint initiative of the Max-Planck-Institut für Physik, the Technische Universität München and Ludwig-Maximilians-Universität München. It will offer graduate training opportunities with excellent theoretical and experimental research facilities in leading-edge research topics in particle and astroparticle physics. The school is approved for an initial period of six years, starting in spring 2005. It is designed for highly qualified doctoral candidates who will receive a Ph.D. upon successful completion of their work. The program will be conducted in English.

The Coordinator supports the spokesperson in organizing the operation of the IMPRS. This involves coordination with the participating institutes and the committees established for the smooth running of the school. Duties include organization of the selection procedure of the candidates, organization of lecture series and summer schools, invitation of guest lecturers, and use of the Internet as central medium for school support and advertisement. The successful candidate is encouraged to pursue his/her own research interests in parallel to the duties as coordinator of the research school.

He/she must have a Ph.D. in physics and a proven research record in theoretical or experimental particle or astroparticle physics. Since the coordinator is responsible for the general management of the IMPRS and the support of the young scientists, we seek a reliable and responsible person with excellent organizational and communication skills. The candidate should be able to work efficiently and independently in an interdisciplinary context.

We offer a position with diverse activities in a world-class research environment. The financial conditions depend on qualification with a salary according to the German public sector pay scale (BAT Ib). The position is temporary, with an initial employment for 3 years and the possibility of an extension. The Max Planck Society wishes to increase the participation of women in its research activities. Therefore, applications of women are particularly welcome. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply.

Applications including a cover letter, CV, list of publications and teaching experience, statement of professional goals, and the names of three referees should be directed within 2 weeks after publication of this announcement to:

Max Planck Institute for Physics

Personalstelle / IMPRS

Föhringer Ring 6

80805 München, Germany

Later applications will be considered until the position is filled, e-mail applications only if complete: jobs@mppmu.mpg.de. Further information can be found on our internet homepage <http://www.mppmu.mpg.de>. For questions on the IMPRS and the advertised position, please contact Dr. Michael Altmann, phone +49 89 / 32354-466.

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Postdoctoral positions

are available at the

Department of Physics, Ben Gurion University

in the fields of
High Energy Astrophysics,
Plasma Astrophysics,
Particle Astrophysics and Cosmology.

Applications arriving by
December 31, 2004 will be considered.
Send applications to one of the following:

David Eichler

[eichler@bgumail.bgu.ac.il],

Yuri Lyubarsky

[lyub@bgumail.bgu.ac.il],

Michael Gedalin

[gedalin@bgumail.bgu.ac.il],

Ramy Brustein

[ramyb@bgumail.bgu.ac.il], or

Eduardo Guendelman

[guendel@bgumail.bgu.ac.il].

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POSTDOCTORAL RESEARCH FELLOWS



The Division of Medical Imaging Physics of the Russell H. Morgan Department of Radiology and Radiological Science at the Johns Hopkins University is seeking applicants for several new Postdoctoral Research Fellow positions.

Candidates with a Ph.D. in medical physics, other specialties of physics, engineering, mathematics and related fields are encouraged to apply. The successful applicants will join a Division currently consisting of 5 faculty members, 2 Research Associates and ~10 Research Assistants/Trainees who are actively involved in medical imaging physics and engineering research especially in the areas of quantitative radiography, interventional radiology/vascular imaging, CT, nuclear medicine imaging, SPECT and PET, and angiography and 3D imaging in the setting of interventional radiology. Active research projects include medical imaging instrumentation, Monte Carlo simulations, computer phantom design, quantitative 2D, 3D and 4D image reconstruction methods, internal dosimetry, small animal CT, SPECT and PET imaging techniques, image quality assessment, engineering analysis of human and animal bones using 2D and 3D image data, observer performance experiments and ROC analysis, and clinical trials of image reconstruction and processing methods, and 3D imaging in the setting of interventional radiology.

Experience in these and related areas is desirable but not essential. Strong computer, communication, and writing skills are desirable as is a willingness to work in a multidisciplinary collaborative environment. The projects are supported by several federal and industry research grants and contracts.

For further information, please contact Benjamin M. W. Tsui, Ph.D. (Tel: 443-287-4025, E-mail: btsui1@jhmi.edu). Johns Hopkins University is an equal opportunity employer.

GSI Darmstadt invites applications for the position of

Head of Information Technology

Ref. No.: 2300-04.50

GSI, the National German Heavy Ion Research Center, a member institute of the Helmholtz-Society of German Research Centers, operates a system of heavy ion accelerators to perform research in the areas of nuclear and hadron physics, atomic physics, physics of dense plasmas, radiation biology, and related subjects.

The IT section is embedded within the „Department of Scientific and Technical Infrastructure“ with a staff of about 35 members. Its main responsibilities are the design and operation of large LINUX clusters for scientific computing in close collaboration with the research groups, the development of new concepts for high performance computing, and the running and maintenance of distributed office PC's. Emphasis is placed on the handling and storage of large (Pbytes) data samples and the implementation of complex data bases. The applicant should be able to develop new concepts for computing and grid applications, especially also for the future FAIR project. He/she has several years of experience in IT areas based in a physics environment and is capable to lead this important section of GSI in innovative and collegiate manner. Experience in running complex projects would be an asset.

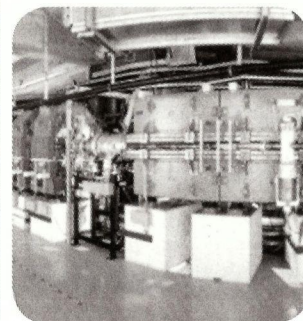
GSI is an equal opportunity employer committed to the development of a diverse workforce.

Disabled applicants will be given preference over applicants with comparable qualifications.

Further information concerning GSI can be found under <http://www.gsi.de>.

Applications quoting the reference number should include a CV, list of publications, and the name of three references. All applications must be returned by **January 15, 2005** to:

GSI
Darmstadt



Gesellschaft für
Schwerionenforschung mbH
Personalabteilung
Kennziffer 2300-04.50
Planckstraße 1
D-64291 Darmstadt

UNIVERSITY OF TORONTO

Experimental High Energy Physics POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS



Applications are invited for postdoctoral research associate positions in the University of Toronto Experimental High Energy Physics group. The group has active participation in both the ATLAS and CDF experiments and there are three positions available. One of these positions is exclusively associated with ATLAS, and two are initially associated with CDF, with the possibility of a transfer of activities to ATLAS at a later date. Our group is a major participant in the construction, installation and commissioning of the hadronic sections of the ATLAS forward calorimeter. In the coming years the focus will be on the understanding of the performance of the calorimeter system, and preparations for the turn on of the LHC in 2007. In CDF the group has a very active physics programme covering electroweak physics, the top quark, and searches for beyond-the-standard-model physics. For more information about the group's activities please refer to our website at hep.physics.utoronto.ca. Candidates should supply a resume, a description of research interests and three letters of reference, to

**Ms. Winnie Kam, Department of Physics,
University of Toronto, 60 St. George Street,
Toronto, Ontario M5S 1A7, Canada.**

For information about the ATLAS position send email to orr@physics.utoronto.ca, and for the CDF positions to savard@physics.utoronto.ca. The review of applications will begin on 30th November, but applications will be accepted until the positions are filled.

In accordance with Canadian immigration regulations, this advertisement is directed in the first instance to Canadian citizens or permanent residents. Nonetheless, all qualified applicants are encouraged to apply. The University of Toronto strongly encourages applications by women and members of minority and aboriginal groups.

Department of Physics



Carleton
UNIVERSITY

Faculty Position in Particle Physics

Applications are invited for a tenure-track faculty position in particle physics at the rank of Assistant Professor in the Department of Physics at Carleton University, to begin on July 1, 2005. Candidates in both experimental and theoretical particle physics will be considered.

The Department has a strong particle physics research group. The experimental program includes significant roles in the Sudbury Neutrino Observatory and the SNOLAB project, the ATLAS collaboration at the LHC, and detector development for the International Linear Collider. The theory group interests are primarily in particle physics phenomenology, including electroweak and Beyond the Standard Model physics, in particle astrophysics and string theory. There is a strong and mutually beneficial interaction between the theory and experimental groups. Candidates in experimental particle physics or with expertise in particle physics phenomenology are encouraged to apply. In addition, the Department has an active medical physics research group with comprehensive links to Ottawa's medical physics community.

Applicants for this position must possess a Ph.D. and have established an excellent track record in particle physics. We invite applications from outstanding scientists who have demonstrated research creativity and have the ability to attract co-workers and students. Applicants must be committed to effective teaching at the undergraduate and graduate levels. The successful candidate will be expected to develop a strong, externally-funded research program, supervise students, and develop and teach undergraduate and graduate courses.

This position is subject to final budgetary approval.

Candidates should send a curriculum vitae and a statement of their research and teaching interests, and should arrange for letters from three referees to be sent to:

**Prof. Pat Kalyniak, Chair, Department of Physics, Carleton University,
1125 Colonel By Drive, Ottawa, Ontario K1S 5B6, Canada**

Tel: (613) 520-2600, x4376 FAX: (613) 520-4061

E-mail: kalyniak@physics.carleton.ca www.physics.carleton.ca

The deadline for applications is December 15, 2004; however applications will continue to be accepted until the position is filled. All qualified candidates are encouraged to apply; however, Canadian citizens and Permanent Residents will be given priority. Carleton University is committed to equality of employment for women, aboriginal peoples, visible minorities, and people with disabilities. Persons from these groups are encouraged to apply.

Experimental and Theoretical Research Associates

The Kavli Institute for Particle Astrophysics and Cosmology at Stanford University (KIPAC) is currently recruiting for Experimental and Theoretical Research Associates for fall 2004. The appointments are for a 3-year fixed period and are reviewed annually.

KIPAC is a joint venture between the Stanford Department of Physics and Stanford Linear Accelerator Center (SLAC). Research is focused at the interface between physics and astronomy on experimental, computational, observational and theoretical topics and successful applicants will have the opportunity to collaborate with other research groups and projects at Stanford.

These positions are highly competitive and require a background of research in one of the fields of interest for the Institute. Applicants should have, or should be in the process of completing, a PhD and should possess a strong research background, including evidence of excellent future research potential.

Applicants should send a letter stating their research interests along with a CV and three letters of reference to J.L. Formichelli, c/o Stanford Linear Accelerator Center, 2575 Sand Hill Road, M/S 29, Menlo Park, CA 94025 or email to jlf24@slac.stanford.edu.

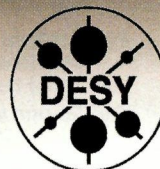
The deadline for applications is December 1, 2004.

Late applicants may still be considered.

Stanford University is an Affirmative Action/Equal Opportunity Employer.



Deutsches Elektronen-Synchrotron
HASYLAB-Research



DESY is world-wide one of the leading accelerator centres exploring the structure of matter. The main research areas range from elementary particle physics over various applications of synchrotron radiation to the construction and use of X-ray lasers.

Particle accelerators produce high intensity radiation for most diverse, innovative applications. DESY plans to upgrade its existing PETRA storage ring into a most modern synchrotron radiation source and to construct free electron lasers for the X-ray regime. With these projects and the existing facilities DESY will become a leading laboratory for experiments with photons. For a research program at the Hamburg synchrotron radiation laboratory HASYLAB we seek a

Scientist (PhD)

MTV Ib

The successful candidate will participate in a new research program with coherent X-rays dedicated to the study of dynamic phenomena in the time domain. You will cover selected areas in soft or hard condensed matter research according to your interest and expertise.

You hold a degree in physics or in a related field. Experience in novel instrumentation, data evaluation procedures and/or 2-D detectors is desirable. If you are interested in this position, please send your complete application papers to our personnel department. For further information, please contact Dr. Gröbel on +49 40/8998-2484.

The position is limited for 3 years (in the field of the Tenure Track Program). The possibility for a permanent employment exists.

Salary and benefits are commensurate with public service organizations. 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. DESY has a Betriebskindergarten.

Deutsches Elektronen-Synchrotron DESY

member of the Helmholtz Association

code: 86/2004 · Notkestraße 85 · D-22603 Hamburg · Germany

Phone 040/8998-3392 · www.desy.de

email: personal.abteilung@desy.de

Deadline for applicants: 01.12.2004

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GSI Darmstadt invites applications for the position of

Head of the detector laboratory

Ref. No.: 2400-04.48

GSI, the National German Heavy Ion Research Center, a member institute of the Helmholtz-Society of German Research Centers, operates a system of heavy ion accelerators including a linear accelerator (UNILAC), a synchrotron (SIS18), and an experimental storage ring (ESR) to perform research in the areas of nuclear and hadron physics, atomic physics, physics of dense plasmas, radiation biology, and related subjects.

The detector laboratory deals with the design and construction of complex devices for the detection of particle radiation in research and for the diagnosis of particle beams. Currently running projects include the readout chambers for the ALICE TPC and TRD at the CERN LHC as well as the development of gas detectors for ion therapy. Detector design and construction for projects in the FAIR project will shape the laboratory in the future.

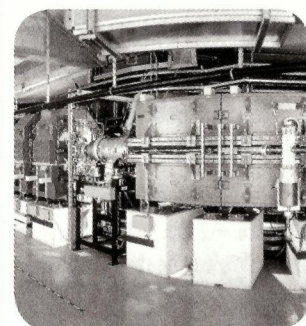
The successful candidate has a PhD in physics and significant and internationally recognized expertise in the physics and technology of particle detectors. He/she has experience in running complex projects and will lead a team of physicists, engineers and technicians in close collaboration with the research and accelerator division.

GSI is an equal opportunity employer committed to the development of a diverse workforce. Disabled applicants will be given preference over applicants with comparable qualifications.

Further information concerning GSI can be found under <http://www.gsi.de>.

Applications quoting the reference number should include a CV, list of publications, and the name of three references. All applications must be returned by **Dec. 10, 2004** to:

GSI
Darmstadt



Gesellschaft für
Schwerionenforschung mbH
Personalabteilung
Kennziffer 2400-04.48
Planckstraße 1
D-64291 Darmstadt

CERN
COURIER

December deadline: 12.11.04

This is your last chance in 2004 to attract qualified candidates via *CERN Courier's* recruitment pages.

Your vacancy will benefit from a combined print and online recruitment campaign.

You will directly target eligible candidates reading *CERN Courier* and active jobseekers browsing JobsWatch, the international recruitment directory on www.cerncourier.com.

Early bookings before 4 November will benefit from a 10% discount on all advertisement sizes and extended Web coverage on www.cerncourier.com and www.physicsweb.org.

For bookings and enquiries, please contact Yasmin on +44 117 930 1196 or yasmin.agilah@iop.org

to discuss suitable advertising options, including magazine advertising and online exposure.



TENURE-TRACK ASSISTANT or ASSOCIATE PROFESSOR OF PHYSICS in Accelerator Physics Cornell University

We are seeking an outstanding individual for a tenure-track assistant or associate professor position in accelerator physics. In addition to teaching undergraduate and graduate courses, responsibilities will include supervision of graduate students and participation in the research program of the Lab for Elementary-Particle Physics. Currently based largely on the CESR storage ring, the research program has expanded to include the International Linear Collider and an Energy Recovery Linac for the production of synchrotron radiation. A PhD in physics with experience in accelerators or in elementary-particle physics is required. The position will be available in September 2005, or earlier by negotiation, with an initial appointment of three years. Please send an application and at least three letters of reference to

Search Committee Chair, Newman Laboratory,
Cornell University, Ithaca, NY 14853.

Applications should include a curriculum vitae, a publication list and a short summary of teaching and research experience.

Electronic mail inquiries may be addressed to SEARCH@LEPP.CORNELL.EDU. Cornell is an equal opportunity/affirmative action employer.

神岡宇宙素粒子 研究施設

Research Associate Position (faculty position) at Kamioka Observatory, Institute for Cosmic Ray Research(ICRR), University of Tokyo

ICRR of the University of Tokyo invites applications for a university research associate position (faculty position) at the Kamioka Observatory. The candidate for research associate is expected to work on physics research at the Super-Kamiokande facility and for the future projects of the Observatory, including the T2K (Tokai to Kamioka) long baseline neutrino experiment, the XMASS project searching for dark matter using the liquid xenon technique, and a future large volume detector project for neutrino physics and the search for nucleon decay. The candidate is expected to commence the work on or before April 1, 2005.

Interested applicants should send

- (1) curriculum vitae (including a description of his/her experienced research),
- (2) a list of publications and reprints (or copies) of his/her major papers (less than 5 papers),
- (3) a statement of research interests (less than or equal to two pages),
- (4) the possible date of taking the position, and
- (5) letters of recommendation from two physicists.

The documents should be sent to : **Yoichiro Suzuki, Director of Institute for Cosmic Ray Research, University of Tokyo, 5-1-5 Kashiwa-no-ha, Kashiwa City, Chiba 277-8582, Japan** before January 11, 2005.

An interview will be expected on 29th of January, 2005 at the Kashiwa campus of ICRR (Travel expenses will not be provided).

For inquiries please contact Y.Suzuki (suzuki@icrr.u-tokyo.ac.jp).

UNIVERSITY OF TORONTO Faculty of Arts and Science Chair, Department of Physics



The Faculty of Arts and Science of the University of Toronto seeks a highly qualified candidate to serve as Chair of the Department of Physics.

With a complement of approximately 50 faculty across three campuses, the Department of Physics is one of the leading research departments in North America. Excellent facilities support research across a wide spectrum, from exploration geophysics to theoretical cosmology, from condensed matter to particle physics. Opportunities for interdisciplinary research are abundant, as many of the graduate faculty in Physics are cross-appointed to other Departments and Institutes of the University, such as the Departments of Chemistry, Astronomy and Astrophysics and Geology and the prestigious Canadian Institute for Theoretical Astrophysics (CITA).

We seek an individual with a reputation as an outstanding scientist with a vigorous research program, demonstrated leadership and administrative abilities and a commitment to excellence in research and teaching as measured by the highest standards of the discipline. The successful candidate will be a strong leader and advocate for the Department within the University and on the national and international scenes.

The Faculty welcomes applications and nominations. Nominations should include the reasons for the nomination and a list of appropriate referees. Applicants should include a letter describing a vision for a large and diverse department, a current curriculum vitae and the names of four referees (or arrange for four letters of reference to be sent to the address below). Applications and nominations should be addressed to

**Professor Pekka K. Sinervo F.R.S.C., Dean,
Faculty of Arts and Science, University of Toronto, Room 2005,
100 St. George Street, Toronto, Ontario, Canada M5S 3G3.**

Review of applications and nominations will begin in December and will continue until the position is filled. Those received by December 15, 2004 will be given first consideration. For more information about the Department, the Faculty and the University, we invite you to access the following web sites: www.physics.utoronto.ca/; www.artsandscience.utoronto.ca/; and www.utoronto.ca

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Faculty Position in High Energy Theoretical Physics

The Department of Physics at the University of California at Davis invites applications for a faculty position in theoretical high energy physics. The targeted starting date for appointment is July 1, 2005.

The appointment will be at the tenure-track Assistant or tenured Associate Professor level as determined by qualifications and experience.

The successful candidate will be the second (the first being John Terning) of three appointments in the High Energy Frontier Theory Initiative (HEFTI), which focuses on the 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 HEFTI. The successful candidate should also have a strong interest in interpreting new phenomena as the relevant experimental data become available. Interaction and overlap with the particle cosmology group is anticipated.

The existing high energy group consists of five theoretical and eight 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 3, 2005. 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 Shirley Chiang, Chair
Department of Physics
University of California, Davis
One Shields Avenue
Davis, CA 95616-8677**

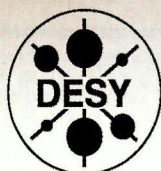


Further information about the department may be found on our website at <http://www.physics.ucdavis.edu>.

The University of California is an affirmative action/equal opportunity employer.

Department of Physics University of California, Davis

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physicsweb.org



DESY is world-wide one of the leading accelerator centres exploring the structure of matter. The main research areas range from elementary particle physics over various applications of synchrotron radiation to the construction and use of X-ray lasers.

For the running of Free-Electron Lasers like the VUV-FEL and the XFEL electron sources with excellent beam quality are needed. For the development of such electron guns a test facility for rf photo injectors is running and will be substantially upgraded at Zeuthen (near Berlin). The development of photo injectors is based on detailed measurements, corresponding simulations and further development of theoretical models. We are looking for a

Postdoc

for participating in the photo injector project. You should have a Ph.D. in physics or engineering and be under 33 years of age. You have substantial knowledge and professional experience in one or more of the following fields: accelerator physics, beam dynamics, laser, software development for data acquisition systems, hardware development of accelerator subsystems or beam diagnostics. You are ready to take responsibility for sub-projects and will contribute significantly to the experiments, the upgrade and optimization of the electron source. You like to work in a motivated team of physicists and engineers and have a good knowledge of the English language. In the framework of the position shift work may be necessary at times.

Contact the project group: Dr. F. Stephan,
phone: +49-(0)33762/77338, e-mail: frank.stephan@desy.de

The position is limited to 2 years at the beginning.

Salary and benefits are commensurate with public service organisations. DESY operates flexible work schemes, such as flexitime or part-time work. DESY is an equal opportunity, affirmative action employer.

Deutsches Elektronen-Synchrotron DESY
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Code: 85/2004 · Platanenallee 6 · D-15738 Zeuthen · Germany
Phone +49-(0)33762/77240 · www-zeuthen.desy.de
E-Mail: personal.abteilung-zeuthen@desy.de

Deadline for applicants: 30.11.2004

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Experimental Research Associates

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 research opportunities in the following areas:

- B physics with the BaBar detector at the PEP II Asymmetric B factory, analysis of 250 fb⁻¹ data set and preparations for detector improvements.
- Particle astrophysics program especially the construction and preparation for launch in 2007 of the gamma ray telescope GLAST which will map out gamma sources to probe active galactic nuclei and pulsars, and other topics.
- R&D toward a future linear collider detector.

These positions are highly competitive and require a background of research in high-energy physics and a recent PhD 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:

Jan Louisell, janl@slac.stanford.edu,
Research Division, SLAC 2575 Sand Hill Road
M/S 75 Menlo Park, CA 94025
Equal opportunity through affirmative action.



STANFORD LINEAR ACCELERATOR CENTER

MARIE CURIE FELLOWSHIPS IN DATA-GRID DEVELOPMENT

2 x TEMPORARY 2 YEAR POSTS

Ref No: 001775

Two fellowships, funded by the Marie Curie Transfer of Knowledge Programme, are offered to develop and test an application independent Data-Grid computing framework that will be prototyped on key test-bed activities in the areas of particle physics, astrophysics and bio-informatics. The successful candidates will work as part of an inter-disciplinary team of computer scientists, physicists and biologists.

We are looking for both software engineers and users/developers with at least four years post-graduate experience in one or more of the following areas: distributed systems, large-scale computing environments, software engineering, Grid computing, and real world Grid applications. Knowledge or experience of the research environments of particle physics, astrophysics or bio-informatics would be beneficial.

The closing date for applications is 6th January, 2005.

Applications are invited from all suitably qualified people who are citizens of an EU or associated country and people who have resided in the EU for 4 out of the last 5 years. Residents of Ireland are not eligible.

Further particulars and application procedures for these posts are available at www.ucd.ie/vacancies or from the:



**The Personnel Department,
University College Dublin,
Belfield, Dublin 4, Ireland.
Tel: 00-353-1-716 1412; Fax: 00-353-1-2692472**

Experimental Particle Physics Indiana University

The Department of Physics invites applications for a tenure-track faculty position in collider-based high-energy particle physics to start Fall 2005. The Department has a strong experimental particle physics program at the energy frontier with faculty members playing leading roles in experiments currently taking data and preparing for the future: the D0 experiment at Fermilab, the ATLAS experiment at CERN, and R&D for a future e+e- linear collider. More information is available at <http://physics.indiana.edu/xxx>. We seek candidates with a Ph.D. in physics, outstanding leadership qualities, and proven or potential excellence in both research and teaching. Applicants should submit a curriculum vitae, list of publications, statement of research interests and proposed activities, and arrange for at least three letters of reference to be sent to:

HEP Search Committee

Attn: Prof. Rick Van Kooten

Physics Department, Swain West 117

Indiana University

Bloomington, IN 47405 USA

Applications will be reviewed beginning December 15, 2004 until the position is filled. E-mail inquiries and questions may be addressed to:

search_hep@hep.physics.indiana.edu

*Indiana University is an Affirmative Action/Equal Opportunity Employer.
Applications from women and minorities are particularly encouraged.*



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Department of Physics

LHCb Vertex Detector Software Developer

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You will join the Liverpool activity on the LHCb experiment, contributing to the development of the reconstruction software for the Vertex Detector being constructed at Liverpool. You will develop the software to reconstruct the trajectories of the particles through the detector and to determine the position of each of the sensors. The code will be written in C++ in a framework developed for LHCb. Details of the LHCb vertex detector can be found at <http://hep.ph.liv.ac.uk/lhcb/>. You should possess a PhD in Experimental Particle Physics or equivalent. One or more posts are supported by PPARC for three years.

Informal enquiries to Professor T Bowcock, on +44 151 794 3360, email: tjvb@hep.ph.liv.ac.uk or Dr D E Hutchcroft, on +44 151 794 3416, email: hutchcroft@hep.ph.liv.ac.uk

Quote ref: B/359/C

Closing Date: 29 November 2004

Further particulars and details of the application procedure should be requested from the Director of Personnel, The University of Liverpool, Liverpool L69 3BX on 0151 794 2210 (24 hr answerphone), via email: jobs@liv.ac.uk or are available online at <http://www.liv.ac.uk/university/jobs.html>

COMMITTED TO EQUAL OPPORTUNITIES

SURVEY AND ALIGNMENT ENGINEER

Berkeley Lab seeks a strong mechanical engineer to lead the survey and alignment section that supports the accelerators and beamlines at the Advanced Light Source (ALS). Reporting to the Mechanical Engineering Deputy for Beamlines and Experimental Systems, you will ensure maximum efficiency and accuracy in data acquisition and analysis, minimize operational down time and exercise independent judgment to select methods, techniques and evaluation criteria for optimizing the alignment of the storage ring and related components. You will also coordinate and conduct facility surveys, including operation of a Leica LTD500 laser tracker system, theodolites and optical tooling, adjust accelerator and beamline components for ideal location, and collaborate with ALS engineering staff, accelerator physicists and external users to ensure a close coupling with survey and alignment requirements. As leader of the section, you will be expected to assign work, review quality, provide training and evaluate performance.

This opportunity requires a proven leader with 6-8 years of professional technical survey and alignment experience and a strong working knowledge of mechanical engineering principles and practices. The ability to interpret technical job requirements and translate them into operational instructions, a thorough understanding of coordinate systems and the ability to transform survey data into different systems, and knowledge/understanding of computer-based survey data acquisition systems and instruments are essential. To qualify, you should be a team player who is also able to work independently with good judgment and effective communication skills. A Bachelor's degree in Engineering or equivalent is preferred. This is a two-year term position with a possibility for renewal or the possibility of conversion to a career position.

For consideration, send your resume to sdjobs@lbl.gov, fax to 510-486-5066 or apply online at <http://jobs.lbl.gov>, referencing Job # EG/017313/JCERN. Berkeley Lab is an AA/EEO Employer, committed to a diverse workforce.



LEDERMAN FELLOWSHIP

Experimental Particle or Accelerator Physics

The Fermi National Accelerator Laboratory (Fermilab) has an opening for a postdoctoral Lederman Fellow in experimental particle physics or accelerator physics. The successful candidate must have demonstrated outstanding ability in research. In recognition of Leon Lederman's commitment to the teaching of physics at all levels, he or she will be expected to participate, for a small fraction of the time, in physics outreach. The successful candidate will have a choice among experiments, which include Tevatron and LHC collider experiments, neutrino experiments, other fixed target experiments and astroparticle physics experiments, or research on accelerators. See <http://www.fnal.gov/> for more information.

Candidates should have obtained a Ph.D. in experimental particle or accelerator physics after August 31st 2003. The appointment is normally for three years with an extension possible. To apply write to Dr. Michael Albrow (Chair of Lederman Fellowship Committee), Fermi National Accelerator Laboratory, MS 122, P.O.Box 500, Batavia, IL 60510-0500. Applicants should send a letter including their research experience and noting any experience or interest in teaching and outreach, a curriculum vita, publication list and the names of at least four references. The deadline for applications is December 10, 2004.



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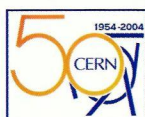
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Max Planck Institute for Physics

(Werner Heisenberg Institute)



MAX-PLANCK-GESELLSCHAFT

The Max-Planck-Institute of Physics invites applications for a

Postdoctoral position

for the GERDA project, a new experiment to be located at the Gran Sasso National Laboratory.

The GERDA experiment is designed to investigate the nature of the neutrino and its absolute mass-scale by searching for the neutrinoless double-beta decay of ^{76}Ge . The goal is to either establish the Majorana nature of the neutrino or push the relevant exclusion limits to the mass-scale indicated by neutrino oscillations. The experiment uses the novel approach of shielding crystals with a cryogenic liquid.

The Max-Planck-Institute is one of the leading institutes in the project. The institute is responsible for the design and construction of new germanium detectors, the detector suspension and insertion system and the corresponding infrastructure. It is also involved in the software to support simulation and analysis. The successful candidate is expected to contribute in both sectors.

Salary and benefits are commensurate with public service organizations (BAT IIa). The contract is initially limited to 2 years with the possibility of an extension. Candidates should have good knowledge and working experience in experimental particle, astroparticle or low background physics. The Max Planck Society wishes to increase the participation of women in its research activities. Therefore, applications from women are particularly welcome. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply.

Interested applicants should submit an application letter, a statement of research interests, a curriculum vitae, a list of publications, and arrange for three letters of support to be sent to

Max Planck Institute for Physics

Frau U. Grenzemann
Föhringer Ring 6
D-80805 München

Further information can be obtained from Prof. Allen Caldwell (EMail: caldwell@mppmu.mpg.de) or Dr. Iris Abt (EMail: isa@mppmu.mpg.de). Applications should be sent as soon as possible, at the latest 6 weeks after publication.

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