

RECRUITMENT

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We invite applications for the position of

Head of the Scientific and Technical Infrastructure Division (Director, Member of the Scientific Directorate)

The Scientific and Technical Infrastructure division consists of the following units:

Information technology, electronics for experiments, detector development unit, laboratory for targets, central technical services including design office, construction and workshops, buildings and facility management, library and scientific documentation services.

The scientific and technical infrastructure division is of high importance for the operation of GSI facilities as well as for the GSI scientific programme. Additionally the division will have to contribute substantially to the future FAIR project (Facility for Antiproton and Ion Research). This will include related R+D as well as close cooperation with other GSI divisions.

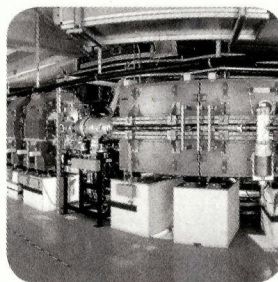
For this outstanding position we are looking for a candidate with an academic degree either in engineering or technology oriented natural sciences. The applicant should possess sound knowledge of and some years experience in the management of complex large-scale scientific-technical infrastructure projects as well as relevant leadership experience. He/She must be well experienced in working with teams of different disciplines and competencies. Furthermore, a sound understanding of financial and budgetary requirements in the management of technical and scientific infrastructure is also needed. Proficiency in the German and English languages is required; knowledge of further languages is desired as well as experience in the management of public founded institutions.

The employment contract can be concluded on an indefinite basis, whilst the function is limited to a renewable period of 5 years.

GSI is an equal opportunity employer and encourages women especially to apply. Persons with disabilities will be given preference over other applicants with comparable qualifications.

Applications should be submitted by postal mail until **November 30, 2005** to:

GSI
Darmstadt



The National Laboratory for Heavy-Ion Research, a member institute of the Helmholtz-Society of German Research Centres

Gesellschaft für
Schwerionenforschung mbH
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University of California,
Los Angeles

UCLA

Assistant Professor in Accelerator and Beam Physics

The Department of Physics and Astronomy at UCLA invites applications for an opening at the Assistant Professor level in the physics of beams and accelerators. The successful candidate will add to the present vigorous, multidisciplinary program in advanced accelerators and beam-based light source physics at UCLA. A research background with strengths in core experimental areas (microwaves, plasma physics, lasers, ultra-fast diagnostic techniques) is desirable, as is expertise in computational methods. Prospective applicants should submit a curriculum vita, statement of research interests, publications list and arrange to have at least three letters of recommendation sent to **Chair, Accelerator Search Committee, Department of Physics and Astronomy, University of California, Los Angeles, CA 90095-1547** by the deadline of January 1, 2006.

The University of California is an Equal Opportunity/Affirmative Action Employer.

SCIENTIST WITH PHD OR HIGH LEVEL ENGINEERING DIPLOMA

The "Centre de Physique des Particules" (CPPM) of IN2P3/CNRS is considering a high level experimental physics position (fixed Term contract) in 2005/2006 for the period of up to two years.

Candidates must have a PhD or a high level engineering diploma.

We welcome motivated candidates with an excellent scientific level, experienced in hardware, oriented towards team work for the production tests and system tests of the ATLAS pixel detectors.

Candidates with good experience in programming and running the real time data acquisition systems are welcome.

Applications require : • Curriculum Vitae • Personal motivation letter • List of publications and internal notes demonstrating personal contributions, with a copy of the most significant ones (3 maximum) • List of talks at conferences and workshops • 2 or 3 names of persons to be contacted as reference

Applications should be sent by E-mail to :

Helene Boyer <boyer@cppm.in2p3.fr>



CNRS
CENTRE NATIONAL
DE LA RECHERCHE
SCIENTIFIQUE

EMBL, European Molecular Biology Laboratory, an international research organisation is planning to build an integrated facility in structural biology at the future PETRA-3 ring at DESY, Hamburg, Germany. The expected optical properties of PETRA-3 will allow the operation of world-class synchrotron radiation beamlines. The initial phase of the project includes the construction of two beamlines in macromolecular X-ray crystallography and one beamline in Small Angle X-ray Scattering of biological material. These facilities will be complemented by an integrated area for biological sample preparation and characterisation, including high-throughput crystallisation. In the initial phase of the project, EMBL is searching for applications for the following leading positions:

- **PROJECT COORDINATOR FOR STRUCTURAL BIOLOGY BEAMLINES
@PETRA-3 (05/119)**
- **PROJECT LEADER FOR A SMALL ANGLE X-RAY SCATTERING BEAMLINE
@PETRA-3 (05/118)**
- **PROJECT LEADER FOR PROTEIN CRYSTALLOGRAPHY BEAMLINE-1
@PETRA-3 (05/117)**

Complete job descriptions can be found at:

www.embl.org and www.embl-hamburg.de/jobs.html

Closing date: 31.01.2006. Further information can be obtained from Dr. Matthias Wilmanns, info@embl-hamburg.de, +49 40 89902 110.

To apply, please email a curriculum vitae, cover letter, a detailed description of current & planned research activities, and the names and addresses of three referees, quoting the corresponding ref. no in the subject line to: application@embl.de.



PENN STATE



Positions in Grid Computing and LIGO Gravitational Wave Data Analysis

The Penn State Center for Gravitational Wave Physics (CGWP) has funding for several positions at the postdoctoral scholar level or higher to take part in the development and support of the LIGO Virtual Organization, a charter member of the Open Science Grid, and in the use of the VO's resources for the analysis and interpretation of observations from the Laser Interferometer Gravitational Wave Observatory (LIGO).

LIGO has critical production requirements to process 300 TBytes of data per year of fundamental and pressing scientific importance. This is one of the earliest and most intensive tests to date of grid computing concepts using real-world geographically dispersed, heterogeneous, high performance data processing resources with different local management and technical histories. Working in this environment will provide invaluable experience in the realities of grid computing, extraordinary opportunity to influence the future of grids and computing in general, and participation at the birth of the exciting new field of observational gravitational wave physics.

The Penn State LIGO Scientific Collaboration (LSC) group is part of the LIGO Global Grid Virtual Organization, contributing local resources of 312 processors and 34 TB storage (approximately 1/5 of the aggregate resources of the VO). The Penn State gravitational wave group is the largest and most active in the country with seven faculty, eleven postdocs and technical staff members, and eight graduate students. It plays a leading role in the analysis and interpretation of LIGO data, including analysis in collaboration with other gravitational wave detector experiments worldwide. It is part of the larger Penn State Institute for Gravitational Physics and Geometry, which is the largest and most active relativity group in the country with over twenty faculty, sixteen postdocs, twenty graduate students, and seven undergraduate students engaged in research in all areas of gravity.

Penn State is also home to the Center for Gravitational Wave Physics (CGWP), funded by the National Science Foundation as part of its Physics Frontier Centers program. The mission of the CGWP is to foster research of a truly interdisciplinary character linking the highest caliber astrophysics, gravitational wave physics and experimental gravitational wave detection in the pursuit of the scientific understanding of gravity and the development of gravitational wave observations as a tool of observational astronomy.

Each year the CGWP hosts at Penn State several major workshops and conferences addressing all areas of gravitational wave physics and astrophysics.

Academic background in physics with Ph.D. in hand and a strong interest in computing will be preferred for these positions. Applicants with a computer science background and demonstrated experience in computing for large scale experimental physics will also be favorably considered and do not require a Ph.D. Applicants should send a CV, statement of research interests and relevant experience, and arrange for three letters of recommendation to be sent to:

**Grid Computing/LIGO VO Search
Center for Gravitational Wave Physics
104 Davey Laboratory, PMB 89
University Park, PA 16802
USA**

Applications will be considered beginning 15 January 2006 and will continue until the available positions are filled. For more information contact lsfinn+grid@psu.edu or see our websites at <http://gravity.psu.edu> and <http://ligo.asen.psu.edu>.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

WE HIGHLIGHT SCIENCE

The European Synchrotron Radiation Facility (ESRF) is Europe's most powerful light source. It is located in the unique scientific environment of Grenoble, in the heart of the French Alps.

The ESRF offers you an exciting opportunity to work with international teams on a wide range of scientific subjects using synchrotron light: Physics and Chemistry, Life Sciences and Medicine, Earth and Environmental Sciences, Surface and Materials Sciences.



Scientists
Post-doctoral fellows
PhD students
Engineers
Technicians
Administrative staff

Have a look at our vacancies at: www.esrf.fr
Contact us at: recruitment@esrf.fr

Division Director

Lawrence Berkeley National Laboratory (LBNL) has an excellent opportunity available for a Director of the Accelerator and Fusion Research Division (AFRD) who will be responsible for a broad spectrum of experimental and theoretical research in accelerator science and related technologies.

AFRD is funded primarily by the U.S. Department of Energy's (DOE) Office of Science to advance accelerator-based research in high energy and nuclear physics, in development and operation of intense photon sources, in heavy-ion-driven inertial fusion, and in ion beam technologies. AFRD with an annual budget of ~\$30 M has a staff of ~ 100 scientists, engineers, technical, and administrative personnel, as well as participating faculty and students from the nearby U.C. Berkeley campus and other world-renowned universities and research institutions. For more information about AFRD's scientific programs, visit: <http://www-afrd.lbl.gov>.

Reporting to the Laboratory Director, the Director of AFRD will be responsible to provide scientific leadership and advocacy for the Division's research programs, develop new directions that address the national needs of accelerator-based science and will be the chief spokesperson for the Division. The Director will be responsible for all areas of management within the Division including safe operations, administration, budget, staffing and human resources.

The ideal candidate will have a distinguished record of scientific accomplishments and leadership in multiple disciplines relevant to the research of AFRD; experience with program management and program development; and a demonstrated ability to interact effectively with funding agencies such as DOE. Strong management and administrative skills are necessary. Must also have creativity in decision-making and problem solving along with experience in human resources and financial management. Ph.D. in a scientific discipline relevant to AFRD is strongly preferred.

Applicants are requested to submit their curriculum vitae, a list of publications, a statement of research accomplishments and interest (including management experience), and the names and contact information of at least five references to afrd-director@lbl.gov or via mail to:

Dr. James Siegrist, Chair, AFRD Director Search Committee
Lawrence Berkeley National Laboratory
One Cyclotron Road, MS: 50-4049
Berkeley, CA 94720-8204

Also apply online at: <http://jobs.lbl.gov>. Please reference Job Number 018386 and note it on all documents.

Berkeley Lab is an Affirmative Action/Equal Opportunity Employer committed to the development of a diverse workforce. For more information about Berkeley Lab and its programs, visit: <http://www.lbl.gov>.

NOTE: This position is also subject to the financial disclosure requirements of the California Political Reform Act of 1974.



PEOPLES FELLOWSHIP

The Peoples Fellows program targets entry-level accelerator physicists, specialists in accelerator technologies, and high energy physics post-doctoral researchers who wish to embark on a new career in accelerator physics or technology. The Peoples Fellowship attracts outstanding accelerator scientists early in their careers, both to enhance Fermilab's capabilities in accelerator science and related technologies, and to train and develop the accelerator scientists and technologists who will carry our field forward in the future.

Peoples Fellows have extraordinary latitude in choosing their research activities and are provided with significant research support. Current areas of research that are of interest at FNAL include (but are not limited to): stochastic and electron cooling, high intensity proton beams, high intensity neutrino sources, muon storage rings, superconducting magnets, superconducting RF, linear colliders, high luminosity hadron colliders, beam-beam effects and their compensation, accelerator controls and feedback, and computational physics and modeling.

Fermilab seeks Peoples Fellows candidates with outstanding credentials who have the potential to be leaders of the field.

Term of Appointment

The initial term of the fellowship is three years. Peoples Fellows are eligible to be considered for a second three-year term. The Peoples Fellowship is a tenure-track position, which may lead to an appointment to a regular position on the Fermilab scientific staff.

Applications

Application deadlines are February 1 and August 1. A decision on the applications will be made within a few months of the deadline. Exceptional candidates in extraordinary circumstances may request early consideration of their applications.

Additional information may be found on the web site <http://www.fnal.gov/pub/forphysicists/fellowships/peoples.html>.

Communications may be sent to: Peoples Fellows Committee, Fermi National Accelerator Laboratory, MS341, Attn: Eva Clark, PO Box 500, Batavia, IL 60510-0500, peoples_fellowship@fnal.gov.

Fermilab is an Equal Opportunity Employer. M/F/D/V



University of Cambridge Department of Physics (Cavendish Laboratory)

Research Engineer or Physicist for Instrumentation in Experimental Particle Physics (Senior Technical Officer/Technical Officer)

Applications are invited from electronic engineers or detector physicists for a research position that will provide expertise and leadership in the design, development and implementation of state-of-the-art electronics and particle detectors for the experimental programme of the Cambridge particle physics group. This currently encompasses the ATLAS and LHCb experiments at the CERN Large Hadron Collider, and their future upgrades, R&D for the International Linear Collider through the CALICE and LC-ABD collaborations, and the MINOS experiment at Fermilab.

The successful candidate will have a degree or higher qualification either in electronic engineering, with experience in designing and building fast electronics, or in physics, with a track record in instrumentation. In either case, previous experience in particle physics instrumentation would be advantageous. The post is permanent to the retiring age, subject to satisfactory completion of a probationary period. The stipend will be that of a Senior Technical Officer (£24,820 - £35,883) or Technical Officer (£21,640 - £29,127) according to the qualifications and experience.

Applications, consisting of a supporting statement, a full CV, the names and contact details of three referees, and a completed form PD18 obtainable from www.admin.cam.ac.uk/offices/personnel/forms/pd18, should be sent by mail or email to The Registrar, Cavendish Laboratory, Madingley Road, Cambridge, CB3 0HE, UK, (email: cll30@phy.cam.ac.uk) from whom further details can be obtained. Informal enquiries should be directed to Professor Janet Carter by email, jrc1@hep.phy.cam.ac.uk. The closing date for the receipt of applications is 18th November 2005.

The University is committed to equality of opportunity.



THE UNIVERSITY OF CHICAGO

ENRICO FERMI INSTITUTE

ENRICO FERMI POSTDOCTORAL RESEARCH FELLOWSHIP AND THE ROBERT R. MCCORMICK POSTDOCTORAL RESEARCH FELLOWSHIP

These postdoctoral research fellowships are intended to attract outstanding young scientists to the University of Chicago at an early stage in their career. We expect to award two fellowships each year at the rank of Research Associate from a pool of international candidates. To date, there have been 93 such fellows, many of whom have gone on to careers as influential scientists.

The initial appointment is for one year, renewable annually, for up to three years. The appointment carries a salary of \$52,500 per annum with an additional allocation of up to \$6,000 per annum for independent research support. Appointees are given the freedom of either working independently or associating with EFI faculty in a research area of common interest.

The Enrico Fermi Institute is an interdisciplinary research unit within the Division of Physical Sciences of the University of Chicago. The Institute's activities include the following: string theory and theoretical high energy physics, experimental high energy physics, theoretical astrophysics and cosmology, experimental astrophysics and space physics, infrared and optical astronomy, cosmic microwave background observations, general relativity, cosmochemistry, scanning electron & ion microscopy, secondary ion mass spectrometry.

Applying for the Enrico Fermi and/or the Robert R. McCormick Postdoctoral Research Fellowship at the rank of Research Associate:

One application is sufficient to be considered for both research fellowships.

Candidates should apply on line at <https://jobopportunities.uchicago.edu>, using requisition number: 070992.

They will be asked to supply the following documents:

- Curriculum Vitae
- Bibliography of publications and preprints
- Description of research interests to be pursued at the University

In addition, candidates should ensure that three letters of recommendation are sent to: **Director, Enrico Fermi Institute, 5640 S. Ellis Avenue, RI-183, Chicago, Illinois 60637** or by fax to: (773) 702-8038. Letters should be from faculty members or senior research scientists who are active in the field of study in question.

Material provided on-line need not be sent to the Fermi Institute, however, it is the candidate's responsibility to see that the letters of support are sent to the Enrico Fermi Institute *no later than November 11, 2005*. Review of applications will begin at that time. Candidates will be notified of the results by late December. **Contact Nanci Carrothers at: n-carrothers@uchicago.edu in case of questions.**

The University of Chicago is an Affirmative Action/Equal Opportunity employer. It also participates in the Exchange Visitor Program and will facilitate the granting of visas to foreign applicants.



McGill

Postdoctoral Research Position in Ground-based Gamma-ray Astronomy with VERITAS

The high energy astrophysics group at McGill University is seeking applications for a research associate position in ground-based gamma-ray astronomy. We are members of the VERITAS collaboration, which is constructing an array of four 12 metre air-Cherenkov telescopes near Tucson, Arizona. This will be used to carry out observations of astrophysical sources in the energy range above 100 GeV.

The McGill team comprises two faculty members, a post-doctoral research associate and several graduate students.

We seek individuals with a recent PhD in particle astrophysics, experimental particle physics, or a related discipline. The position is initially for two years with an opportunity for extension. The successful candidate will be based in Montreal and will be expected to travel to Arizona periodically. Salary will be commensurate with experience.

Please send a CV and arrange to have three letters of reference sent to:

Professor D. Hanna, Physics Department, McGill University, 3600 University Street, Montreal, QC H3A 2T8, Canada

hanna@physics.mcgill.ca

Applications will be considered until the position is filled.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. However all qualified individuals are encouraged to apply.

McGill University is committed to equity in employment.

CANFRANC UNDERGROUND LABORATORY (LSC)

SENIOR PHYSICIST FOR DIRECTOR OF THE LABORATORY

The **Canfranc Underground Laboratory (LSC)** is a new facility for Underground Science. It is conceived as a Consortium of the **Spanish Ministry of Education and Science, the Aragon Regional Government and the University of Zaragoza**. Located under the Pyrenees' mountain "El Tobazo", the overburden at the site provides 2500 Meters Water Equivalent (MWE) of shielding from cosmic rays and offers a low background environment for the next generation of experiments exploring the frontiers of astroparticle physics.

Construction of the new facility will be finished in September 2005 and the Laboratory is expected to be available for installation of experiments during the first half of 2006.

Fields of research being considered for **LSC** include (but are not limited to): dark matter searches, neutrinoless double beta decay, low-energy solar neutrinos, nuclear reactions of astrophysical interest, low counting facility, geophysics, biophysics and other topics. A first Call for Expressions of Interest was announced in July 05. Details may be found in the web page <http://www.unizar.es/lsc>

The CANFRANC UNDERGROUND LABORATORY (LSC) seeks a DIRECTOR

The Director reports to the Governing Council and is responsible for managing laboratory operations and maximizing its readiness and effectiveness for scientific research. The Director will have the advice of a Scientific Advisory Committee. The Director is responsible for recruiting and maintaining high quality scientific, technical and administrative staff, developing an annual budget for review and approval, and proposing the short- and long-range plans for the Laboratory.

The Director oversees the scheduling for science and engineering associated with the different experiments and acts as the primary interface with the user community. The Director maintains effective liaison with the Council and its Executive Committee, and the Scientific Advisory Committee. The Director is also responsible for the general maintenance of the Laboratory, for maintaining a public outreach office and for pursuing and managing public and private fund-raising activities, with guidance from Council.

Salary range and starting date are to be negotiated. Review of applications will begin on **January 15th, 2005**, and the recruitment will remain open until the position is filled.

Applications together with names of two referees should be submitted by e-mail to the Chair of the interim Scientific Advisory Committee, Prof. J. Bernabeu (Jose.Bernabeu@uv.es) with copy to the coordinator of the Spanish National Programme on Particle Physics Prof. D. Espriu (espriu@ecm.ub.es).

Post Doctoral Fellow

Experimental Cosmology

The Physics Division of the Lawrence Berkeley National Laboratory has an opening for a postdoctoral fellow in experimental cosmology. This is a two-year position with the possibility of renewal. Our program includes high red-shift supernova studies using ground-based telescopes and the Hubble Space telescope, simulation and optimization of a next generation satellite experiment to study dark energy using supernovae and weak lensing, and R&D on advanced instrumentation for next generation telescopes.

This position requires a PhD or equivalent experience in Astronomy or Physics. Experience in astronomical data analysis, simulation techniques, solid-state detectors or electronics is highly desirable. More information is available at <http://supernova.lbl.gov> and <http://snap.lbl.gov>. Contact Natalie Roe, naroe@lbl.gov, for more information. Please send all applications, including CV, list of publications, description of research interests and skills, and three letters of recommendation, to supernova_postdoc@lbl.gov and apply on line at <http://jobs.lbl.gov>. Please reference Job # 018377 in the subject line. LBNL is an equal opportunity employer committed to developing a diverse workforce.



Research Fellow(s)

Ref: DCL0221-1

Brunel University has an established record of excellent research achievement with '5' ratings in both General Engineering and in Applied Mathematics in the most recent UK Research Assessment Exercise.

The SIRE Group is heavily involved in the preparation of parts of the CMS detector, which will operate at the Large Hadron Collider from 2007 onwards. One post is to support our commitment to the electromagnetic endcap calorimeter and to prepare for analysis of the first data.

Posts: The role of the appointed person is to contribute within a sizable collaborative team based in the UK and at CERN, Switzerland to the commissioning and operation of the endcap electromagnetic calorimeter of the CMS detector at the LHC.

Applicants should be prepared to make a significant contribution to the analysis of early data from the CMS detector in an area in which the UK has a strong involvement (Higgs physics, triple gauge couplings and the gluon structure of the proton).

Applicants should be experienced in using Object Oriented programming in C++ or Java languages, and be familiar with large-scale computing for data analysis and Monte Carlo simulation.

A further post to work on novel data analysis techniques may be funded when candidates are interviewed. In this case, a further appointment may be made.

Applicants will have, or be about to receive, a PhD in particle physics or a closely related subject. Previous experience of data analysis or Monte Carlo simulation is desirable.

The salary will be within the RA1A (£19,640 to £29,128) scale for a minimum of one and maximum of three years. The salary and initial contract period will be dependent on qualifications and experience.



Committed to equal opportunities and representing the diversity of the community we serve

Brunel
UNIVERSITY
WEST LONDON

For a downloadable application form and further details of the post, please visit Brunel web Pages on www.brunel.ac.uk/about/job Alternatively for an application form email to the address below. Closing date for receipt of applications: 28 October 2005.

RecruitDEA, Human Resources, Brunel University, Uxbridge, Middlesex UB8 3PH or email: recruitdea@brunel.ac.uk

Informal enquiries may be made to: Professor Peter Hobson or Professor Steve Watts, School of Engineering and Design, Brunel University, Uxbridge, Middlesex UB8 3PH, UK. Tel: +44 (0)1895 274000.

Email: peter.hobson@brunel.ac.uk, Stephen.Watts@brunel.ac.uk

<http://www.brunel.ac.uk/about/job/>

CERN COURIER

Classified advertising

CERN Courier and cerncourier.com offer the only print and online recruitment service that has a direct route to highly skilled job seekers in high-energy physics and related areas.

"CERN Courier is one of the best media to reach and attract the cutting-edge scientific profiles we're looking for at the ESRF. Advertising in CERN Courier adds value to our recruitment."

Cécile Davan, Recruitment advisor, ESRF

"DESY has chosen CERN Courier to advertise in because of the popularity of the magazine – it is read all over the world. It is a great opportunity to advertise in such a prestigious publication and to reach outstanding scientists and fellows."

Christina Grimm, Human Resources, DESY

For further information please contact

Adam Hylands

Tel: +44 (0)1179 301 027

Fax: +44 (0)1179 200 726

E-mail: adam.hylands@iop.org



Faculty Position in Experimental Particle Physics

Drexel University

The Department of Physics at Drexel University invites applications for a tenure-track faculty position in Experimental Particle Physics starting in the Fall of 2006. We seek a candidate who will establish an active research program while participating in our ongoing neutrino physics program in KamLAND or Double Chooz. The successful candidate must also be committed to excellence in education at both undergraduate and graduate levels. The appointment is expected to be made at the level of Assistant Professor, but an appointment at a more senior level may be considered.

Applicants should send a Curriculum Vitae, a Plan of Research, a Statement of Teaching Philosophy, and arrange for 3 letters of reference to be sent to:

Particle Physics Search Committee, Department of Physics, Drexel University, 3141 Chestnut St., Philadelphia PA 19104, USA

Applications received by January 15, 2006 will receive full consideration.

For more information, see <http://www.physics.drexel.edu/hiring>

Drexel University is an Affirmative Action/Equal Opportunity Employer.



An der Fakultät Mathematik und Naturwissenschaften ist an der Fachrichtung Physik zum nächstmöglichen Zeitpunkt die

Professur (W2) für Experimentelle Hadronenphysik

zu besetzen. Die Stelle ist im Institut für Kern- u. Teilchenphysik angesiedelt. Der/Die Bewerber/in soll das Forschungsspektrum des Instituts in optimaler Weise ergänzen u. Erfahrungen in der Planung, Organisation, Durchführung u. Auswertung von Experimenten der Kern-, Hadronen- oder Teilchenphysik, insb. auch im Detektorbau, vorweisen. Die Bereitschaft zu einer Kooperation mit Forschungseinrichtungen im weiteren Umfeld ist wünschenswert. Der/Die Stelleninhaber/in soll in der Lehre im Grundstudium Experimentalphysik – auch für Studierende mit Physik im Nebenfach – u. im Hauptstudium Kern- u. Teilchenphysik vertreten. Der/Die Bewerber/in muss die Einstellungsvoraussetzungen gemäß § 40 Sächsisches Hochschulgesetz vom 11. Juni 1999 erfüllen.

Frauen sind ausdrücklich zur Bewerbung aufgefordert. Bewerbung Schwerbehinderter werden bei gleicher Eignung bevorzugt berücksichtigt. Ihre Bewerbung mit tabellarischem Lebenslauf u. wiss. Werdegang, Lichtbild, Liste der wiss. Arbeiten, Kopie der Urkunde über den erworbenen höchsten akademischen Grad u. Sonderdrucken von 5 jüngeren Publikationen richten Sie bitte bis zum 30.11.2005 an: TU Dresden, Dekan der Fakultät Mathematik und Naturwissenschaften, Herrn Prof. Dr. rer. nat. J. Weber, 01062 Dresden.

JobsWatch@cerncourier.com



The Cockcroft Institute

An International Centre for Research in
Accelerator Science and Technology

Two Faculty Positions and Two Research Positions

The Cockcroft Institute (<http://www.lancs.ac.uk/cockcroft-institute/>) is a newly created centre for Accelerator Science and Technology in the UK. It is a joint venture of Lancaster, Liverpool and Manchester Universities, the Daresbury and Rutherford Appleton Laboratories (CCLRC), the Particle Physics and Astronomy Research Council (PPARC), and the North West Development Agency (NWDA). It will soon be situated in a purpose-built building on the Daresbury Laboratory campus. The Institute's aim is to provide the intellectual focus, the educational infrastructure, and the essential scientific and technological facilities for scientists and engineers to take a leading role in global projects concerned with accelerator design, construction and operation for the foreseeable future. New, research-led, positions are now available. They all provide an exciting and unique opportunity to take a major role in the realisation of the Institute's vision.

Lecturer in Accelerator Physics

Quote ref: A550

Salary: £23,643 – £35,883 p.a. Closing date: 5th December 2005

The University of Lancaster intends to make an appointment to a position of Lecturer in the Physics Department. The successful candidate will join the new multi-disciplinary Accelerator Science and Technology (AST) group in the Departments of Physics (<http://www.physics.lancs.ac.uk/home/index.asp>) and of Engineering (<http://www.engineering.lancs.ac.uk/home/index.asp>), and will initiate and pursue R&D concerned with particle acceleration and beam handling as part of the programme of the Cockcroft Institute and of the High Energy Physics and Mathematical Physics groups of the Department of Physics. AST work in Lancaster presently includes experimental design and evaluation work concerned with the International Linear Collider (ILC) within the framework of the LC-ABD and EuroTeV initiatives both in the experimental High Energy physics group (<http://www.lancs.ac.uk/depts/physics/research/particle/epgroup.html>) and in the Microwave Engineering group (<http://www.comp.lancs.ac.uk/engineering/>), and theoretical work concerned with relativistic spin and particle beam dynamics and with the relativistic electro-hydrodynamics of charged plasmas in the Mathematical Physics group (<http://www.lancs.ac.uk/depts/imgg/>). There are strong links with accelerator projects worldwide through collaboration with CLIC at CERN, with 4GLS at Daresbury, with the ILC, and with European industry. Innovative contributions to undergraduate and postgraduate teaching in the Department of Physics and in the Cockcroft Institute will be part

of the Lecturer's duties.

The position is available immediately from appointment.

Candidates are encouraged to contact **Professors Peter Ratoff** (p.ratoff@lancaster.ac.uk, phone +44 1524 593086) and **Robin Tucker** (r.tucker@lancaster.ac.uk, phone +44 1524 593610) for informal discussions.

Research Position in Accelerator Engineering

Quote ref: A538

Starting salary up to £29,128 pa

Closing date: 5th December 2005

Applications are invited from highly motivated scientists and engineers for a new position in the Accelerator Science R&D programme of the Institute. The successful applicant will work at the Institute with the Microwave Research Group in the Department of Engineering (<http://www.comp.lancs.ac.uk/engineering/>) of Lancaster University.

The successful candidate will focus on the continuation of the development of techniques for the suppression of multipactor discharge in accelerator components. The work addresses this phenomenon using theoretical, numerical and experimental methods to develop generic techniques for suppressing multipactor discharge in situations where traditional techniques fail or are prohibited by cost or operation. The successful applicant will be expected to devote a portion of her/his time contributing to related work in the growing research programme of the Cockcroft Institute.

The position is available immediately from appointment for an initial period of 2 years with a possible extension of 1 year, and the successful candidate will be eligible to join the USS pension scheme.

Informal enquiries can be addressed to **Professor Richard Carter** (r.carter@lancaster.ac.uk, tel: +44 1524 593086) and to **Dr Rebecca Seviour** (seviour@unix.lancs.ac.uk, tel: +44 1524 593824) Engineering Department, Lancaster University, Lancaster LA14YR, UK.

Further particulars and details of the application procedure for both positions are available from the **Director of Personnel, Lancaster University, Lancaster LA14YW**. Applications should be made on the form available at <http://www.lancs.ac.uk/users/personnel/apply.htm> and should reach the Director of Personnel, from whom further information may be obtained, not later than 5th December 2005.

Lecturer in Accelerator Physics

Quote ref: B577

Salary: £23,643 – £35,883 p.a. Closing date: 5th December 2005

An appointment is to be made to a position of Lecturer in the Department of Physics (<http://www.ph.liv.ac.uk/>). The successful candidate will initiate and lead innovative R&D in the science and technology of particle acceleration and beam handling as part of the programme of the Cockcroft Institute. The successful applicant will also be a member of the new Accelerator Science group in the Physics Department, consisting of five academic staff members, including the Director of the Institute.

The Department has strong, established, and internationally recognized, research profile in High Energy Physics, in Nuclear Physics, and in Condensed Matter Physics. Close collaboration is already well

established with the 4GLS and ERLP projects at Daresbury Laboratory (<http://www.4gls.ac.uk/index.htm>). The High Energy Physics group has a growing involvement in the design and construction of the positron source for the International Linear Collider in collaboration with CCLRC ASTeC (<http://www.astec.ac.uk/>) and with partners in Germany, Russia and the US. The infrastructure available locally both in the Liverpool Physics Department and at CCLRC Daresbury Laboratory constitutes a uniquely comprehensive resource in support of this position.

Innovative contributions to undergraduate and postgraduate teaching in the Department of Physics and in the Cockcroft Institute will be part of the Lecturer's duties.

The position is available immediately from appointment.

Informal enquiries can be made to **Prof. John Dainton** (jbd@hep.ph.liv.ac.uk, tel: +44 151 794 7769, fax: +44 151 794 3444), and to the Head of Department **Prof. Paul Nolan**, (pjn@ns.ph.liv.ac.uk, tel: +44 151 794 3377, fax: +44 151 794 3362) Oliver Lodge Laboratory, University of Liverpool, Liverpool L69 7ZE, GB.

Further particulars and details of the application procedure are available from the **Director of Personnel, The University of Liverpool, Liverpool L69 3BX** on +44 151 794 2210 (24 hr answer-phone), via email: jobs@liv.ac.uk, or at <http://www.liv.ac.uk/university/jobs.html>

Research Position in Accelerator Physics

Quote ref: EPS/257/05

Starting salary to £29,128 p.a. Closing date: 5th December 2005

Applications from highly motivated scientists and engineers are invited for a new position in the Accelerator Science R&D programme of the Cockcroft Institute. The successful applicant will work at the Institute on the production, transport and disposal of disrupted beams (ref: EPS/257/05). The work is centred in the research interests of the Manchester University group working in the Institute on the beam delivery system for the ILC in the LC-ABD and EuroTeV initiatives.

The successful applicants will have, or will be about to obtain, a PhD in physics, electrical engineering or computational science. A demonstrated ability to program in either Fortran, C++ or C is essential.

Familiarity with Python and Mathematica will be considered an asset. The successful applicants will be expected to devote a portion of her/his time contributing to related work in the growing research programme of the Institute.

The position is available immediately following appointment and for a fixed term of initially 2 years with a possible extension of 1 year, and the successful candidate will be eligible to join the USS pension scheme.

Informal enquiries may be made to **Dr Rob Appleby** (email: r.b.appleby@dl.ac.uk) or **Prof Roger Barlow** (roger.barlow@manchester.ac.uk). An application form is available at: <http://www.man.ac.uk/news/vacancies/research.html#EPS203>. Applications, marked 'Confidential – Staff Application', including a full curriculum vitae, a list of publications, a brief description of research interests and the names of three referees should be addressed to **Professor Roger Barlow, School of Physics and Astronomy, The University of Manchester, Oxford Road, Manchester M13 9PL** or by fax to +44 (0)161-2735867.



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