

RECRUITMENT

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Mathematical, Physical and Life Sciences Division

Department of Physics

Director of John Adams Institute for Accelerator Science University of Oxford & Royal Holloway, University of London in association with Wolfson College Oxford and a University Lectureship in Accelerator Science University of Oxford & STFC Rutherford Appleton Laboratory in association with Wolfson College Oxford

The John Adams Institute for Accelerator Science, based in the Sub-department of Particle Physics at the University of Oxford and in the Department of Physics at Royal Holloway University of London (RHUL), was established in October 2004 as a joint venture between the two universities as part of a major initiative in accelerator science, and is supported by the Science and Technology Facilities Council and Diamond Light Source Limited. There are currently 15 academic staff, 9 research staff, more than 20 research students and a large number of technical staff associated with the Institute. The current portfolio of projects includes the R&D for a future high-energy linear electron-positron collider and a neutrino factory, the Muon Ionisation Cooling Experiment (MICE), the development of non-scaling Fixed-Field Alternating Gradient accelerators for a variety of applications including Charged Particle Cancer Therapy using protons and light ions, novel light sources and ultra-short x-ray pulses, plasma wave accelerator diagnostics, and upgrades to ISIS and the LHC. The Institute also has a vigorous outreach programme. More details about the John Adams Institute can be found at <http://www.adams-institute.ac.uk>.

The Director of the John Adams Institute for Accelerator Science Grade RSIV: Salary to be negotiated.

The Institute is seeking to appoint a Director at professorial level, replacing Professor Ken Peach, who will retire next year. The successful candidate will have an outstanding international reputation in accelerator science. The Director will be responsible for the academic leadership and strategic goals of the Institute, for maintaining the high-quality academic training programme and the extensive links with the UK and international accelerator and particle physics communities, other academics and industry. He or she will be responsible for the current programme in accelerator science and the future development of the field. The Director, who will be employed by the University of Oxford on a stipend in the RSIV range (Professorial equivalent) at a level to be negotiated, will be predominantly based in Oxford, and will hold a supernumerary Fellowship at Wolfson College Oxford. Informal enquiries about this post may be made to Professor Brian Foster, email: b.foster@physics.ox.ac.uk or +44 1865 273323, and further particulars are available at <http://www.physics.ox.ac.uk/pp/jobs/JAI-Director-fp.htm>. The deadline for applications is Friday 15 May 2009. Interviews will be held on 1 June 2009; candidates should keep this date free in case they are called for interview.

University Lectureship in Accelerator Science, jointly with the STFC Rutherford Appleton Laboratory

£42,351 - £56,917 pa

The Institute is also looking for a University Lecturer in Accelerator Science to work on R&D topics of common interest to the Institute and the STFC Accelerator Science and Technology Centre (ASTeC), mainly based on programmes presently under way at the STFC's Rutherford Appleton Laboratory in Oxfordshire. This is a joint appointment with the ASTeC; the salary will be on the Oxford UL scale from £42,351 to £56,917 pa. The successful candidate will be offered a supernumerary Fellowship at Wolfson College Oxford. The appointee will undertake lecturing, research and administration within the John Adams Institute and the Sub-department of Particle Physics in Oxford, and will undertake research at the Rutherford Appleton Laboratory. Applications are welcome in any area of accelerator science. This work involves close international collaboration. Informal enquiries about this post may be made to Professor Ken Peach, email: k.peach1@physics.ox.ac.uk, and further particulars are available at <http://www.physics.ox.ac.uk/pp/jobs/JAI-UL-fp.htm>. The deadline for application is Friday 15 May 2009. Interviews will be held on 29 June 2009; candidates should keep this date free in case they are called for interview.

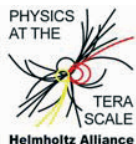
Applicants should submit before the deadline of 15 May 2009 a letter of application setting out how they meet the selection criteria set out in the further particulars, supported by a curriculum vitae, a publications list, a statement of research interests, and the names and addresses of three referees, to Mrs. Sue Geddes, Denys Wilkinson Building, Keble Road, Oxford OX1 3RH, UK, email: s.geddes@physics.ox.ac.uk, Fax: 0044 1865 273417. Applicants should state whether they wish to be considered for the Directorship or the Lectureship.

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For information and consultative advice on classified advertising in
CERN Courier and the web options that we offer, contact Moo Ali.

Tel +44 (0)117 930 1264. E-mail moo.ali@iop.org.



The Strategic Helmholtz Alliance "Physics at the Terascale" (<http://www.terascale.de>) is a research network supported by the Helmholtz Association and comprises the research centres DESY and FZ Karlsruhe, 18 German universities and the Max-Planck-Institut für Physik. Within the framework of the worldwide investigation of the fundamental properties of matter using accelerators at the highest energies, the Alliance will sustainably concentrate and advance the expertise and strengths of the participating institutes.



Accelerators | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association

MONTE CARLO

**DESY, Hamburg location, is seeking:
Physicist Ph.D. (m/f)**

The Analysis Centre of the Helmholtz Alliance "Physics at the Terascale" at DESY supports German physicists working on analysis at ATLAS, CMS and ILC in areas like Monte Carlo generators, parton distribution functions and statistics tools. The Monte Carlo group is a major activity of the Analysis Centre. The group consists of theoretical and experimental physicists working on all aspects of MC generators. The group supports validation and tuning of existing Monte Carlo event generators. It also organizes schools, tutorials and discussion days on MC issues.

The position

The successful candidate is expected to actively contribute to and shape these areas. He or she is expected to be active in the tuning and validation of existing Monte Carlo event generators. Therefore, experience in tuning and validation in either pp and/or ep environments is considered an advantage. A close collaboration with the experiment is necessary. The candidate is also expected to carry out research within one of the Alliance projects for about 50% of his or her time, preferably within one of the LHC experiments.

Requirements

- Ph.D. in physics
- Interest and experience with Monte Carlo event generators, especially with their tuning and validation
- Good communication skills

For further information please do not hesitate to contact Thomas Schoerner-Sadenius (thomas.schoerner@desy.de), Judith Katzy (judith.katzy@desy.de) or Hannes Jung (hannes.jung@desy.de).

Applications including a letter of application, CV, academic records as well as a list of publications and the names of three persons who can provide further information about the candidate should be addressed to:

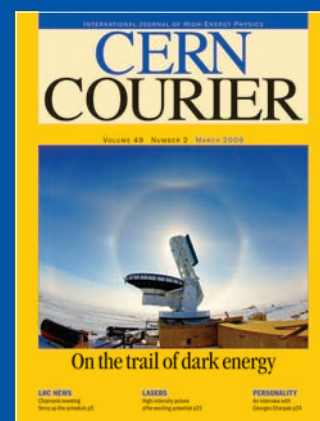
Prof. Ian Brock (Scientific Manager of the Helmholtz Alliance)
DESY, Notkestraße 85, D-22607 Hamburg (Ian.Brock@desy.de)

The position is limited to the current end of funding of the Helmholtz Alliance, 30 June 2012.

Salary and benefits are commensurate with those of public service organisations in Germany. DESY operates flexible work schemes. DESY is an equal opportunity, affirmative action employer and encourages applications from women. There is an English-speaking Kindergarten on the DESY site.

Deadline for applications: 27 April 2009
Code: 28/2009

Essential reading for the worldwide physics community



For more than 50 years, *CERN Courier* has reported on the latest developments in high-energy physics and related areas, including the new GRID computing projects. Subscribe today to keep up to date with the progress in your field.

If you would like to apply for a free subscription, e-mail your name and address to anastasia.ireland@iop.org quoting "sub01".

IOP Publishing

CERN Courier April 2009



The Science & Technology Facilities Council (STFC) is the UK's provider of large scale inter-disciplinary research infrastructures and their supporting technologies, which enable UK researchers to investigate the world we live in and understand the building blocks of the universe. Our Harwell Science & Innovation Campus in Oxfordshire is home to world-leading science including the ISIS neutron source, Central Laser Facility, Diamond Light Source, space and high performance computing and technology.

Applied Scientist Cryogenics (TBU048)

£26,088 - £36,798 per annum

A vacancy exists for an Applied Scientist to work on a variety of challenging tasks in a busy and dynamic environment. The Cryogenics and Magnetics group is responsible for the development of innovative cryogenic and magnetic systems for a variety of applications in Space Science, Particle Physics, Astronomy and Health Care.

You will either be appointed at Band D or E depending on experience.

The group is heavily involved in support for the Muon Ionisation Cooling Experiment which is a demonstrator for a key component of a neutrino factory. The work that we are involved in covers three key areas:

Pion Decay Solenoid

This work involves the commissioning and operation of a large superconducting solenoid. Expertise in the areas of refrigeration techniques and control systems together with an enthusiastic approach to problem solving and de-bugging is required.

Hydrogen Delivery System

The hydrogen delivery system provides hydrogen gas into the absorber and focus coil module. This has to be done and recovered in a safe manner. Some experience of working with flammable gases is desirable together with a conscientious approach to safety.

Absorber and Focus coil Cryostat

Currently in manufacture, this will require testing and commissioning. This unit will be integrated with the hydrogen delivery system and an absorber system from Japan to form a complete absorber system.

In addition the group is engaged in several areas that require Magnetic Field Modelling.

You will be expected to:

- Be able to liaise with manufacturers and suppliers to achieve the goal
- Understand the principles behind control systems and be able to specify and implement
- Have a careful and considered approach to safety – particularly in the installation of the hydrogen systems
- Understand the principles and design features of superconducting magnets
- Be able to take and analyse scientific data
- Take responsibility for specific project areas and manage these to timescales and within budget
- Be able to report on the work to a variety of audiences.

You will be required to have good communication both written and oral as for both posts extensive safety cases, test reports and operating manuals will be required.

Education to at least degree level is essential and a higher qualification is desirable. Some foreign travel may be required.

The salary offered will be in the range of £26,088 to £36,798 per annum dependant on qualifications and experience. In addition a recruitment and retention allowance of up to £3,000 is available. We offer excellent working conditions, a generous leave allowance and an index linked pension scheme.

For an informal discussion on these posts please contact Dr Tom Bradshaw on 01235 446149 or email tom.bradshaw@stfc.ac.uk

For further information on the recruitment process, please contact Sarah Clements on 01235 446439 or email Technology-HR@rl.ac.uk quoting reference number TBU048.

All applications should be made online by visiting: www.scitech.ac.uk/About/Vacs/current/portal/Vacs.aspx

Closing date: 11 May 2009.

Interview date: 21 May 2009.

NO AGENCIES

STFC is an equal opportunity employer and promotes diversity in its workforce. We are particularly keen to consider applications from groups currently underrepresented in the workforce and we are positive about disability.



Why does a leading Quant Fund want to recruit leading scientists in 2009?

You're searching for the elusive building blocks of the universe. We're searching for elusive alpha in global financial markets. We should talk.

Who Are We?

OXFORD ASSET MANAGEMENT is an investment management company situated in the centre of Oxford. Founded in 1996, we're proud of having generated positive returns for our investors each year, including 2008, especially as many assets are managed for pensions, charities and endowments. We blend the intellectual rigour of a leading research group with advanced technical implementation. We like to maintain a low profile and avoid publicity. Nobody comes to work in a suit and we are a sociable company, enjoying an annual ski-trip away together.

What Do We Do?

We use quantitative computer-based models to predict price changes in liquid financial instruments. Our models are based on analyzing as much data as we can gather and we actively trade in markets around the world. As these markets become more efficient, partly because of organizations like ours, we must have new insights and develop improved models in order to remain competitive. Working to understand and profit from these markets provides many interesting mathematical and technical challenges, especially as markets become increasingly electronic and automated. We enjoy tackling difficult problems, and strive to find better solutions.

Who Do We Want?

Although most of us have advanced degrees in mathematics, computer science, physics or econometrics from the world's leading universities and departments, we are just as interested in raw talent and will consider all outstanding graduate applicants. We expect all prospective candidates to work efficiently both in a team environment and individually. We value mental flexibility, innovative thinking and the ability to work in a collaborative atmosphere. No prior experience in the financial industry is necessary. We want to hear from you if you are ambitious and would relish the challenge, opportunity and excellent compensation offered.

Software Engineers

We are seeking outstanding software engineers to develop and maintain system critical software running in a 24-hour production environment. You will be responsible for all aspects of software development on a diverse range of projects, such as automating trading strategies, integrating third party data into our system and the development of data analysis tools. You will have the following:

- A high quality degree in computer science or related discipline
- C++ experience that demonstrates your ability to work efficiently in a fast paced environment
- Extensive knowledge of the development life cycle, from prototyping and coding through to testing, documentation, live deployment and maintenance

Desirable experience includes Linux, scripting, working with large numerical data sets, and large scale systems.

Quantitative Researchers & Modellers

We are seeking outstanding researchers to build quantitative models of financial markets within our research and development team. You will be responsible for projects from the initial idea-generation stage through to implementation and execution. You will undertake research using large and often complex data sets, employing different computer programming languages (mostly C++) and our in-house development library infrastructure.

You will have experience in some of the following areas: numerical analysis, optimisation, signal processing, statistics (including robust techniques), stochastic processes, time series analysis, volatility / GARCH modelling.

How to apply

Please email or post CV with covering letter to:

Address

Dr Steven Kurlander,
Oxford Asset Management,
13-14 Broad Street,
Oxford OX1 3BP
United Kingdom

Email cern2009@applytooxam.com

Telephone +44 1865 248 248

Closing Date

Ongoing

Start Date

Spring 09 – ongoing

Benefits

Health Insurance (including family),
Pension Scheme,
Life Insurance.

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GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

The Physics Department of the Georg August University of Göttingen advertises a

Full Professorship (W3 salary scale) in Theoretical Physics with research focus "Quantum Theory in the range of Elementary Particle Physics and Cosmology"

to be filled by Oct 01, 2009.

The successful applicant shall represent the Physics Department's Research Focus "Particle Physics and Astrophysics" in the Theory Division. She/he will investigate the fundamental interrelations between Elementary Particle Physics and Cosmology by her/his research profile in a broad range of Quantum Physics. A scientific interaction with the experimental and observational research groups in this area is expected.

Teaching obligations include the participation in all graduate and undergraduate curricula provided at the Physics Department (Bachelor of Science, Master of Science, Bachelor (two subjects) (teaching profession), Master of Arts in Education, Diploma (to be discontinued), PhD).

The formal requirements for the recruitment follow § 25 NHH. The Public Law Foundation Göttingen University holds the right of appointments. Details can be given upon inquiry.

Applications from foreign countries are expressly encouraged. A part-time appointment can possibly be given. Handicapped candidates are given priority, if equally qualified. The University of Göttingen is determined to increase the percentage of female professors. Therefore, we strongly encourage qualified female scientists to apply.

Applications with the standard documents (CV, index of publications, presentation of teaching and research record, diplomas) should be sent by **April 15, 2009** to:

Dekan der Fakultät für Physik, der Georg-August-Universität Göttingen
Friedrich-Hund-Platz 1, D-37077 Göttingen, GERMANY



GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

The Department of Physics

invites applications for a

W2-Professorship Experimental Physics with denomination Particle Physics

at the Second Physical Institute. We seek an internationally renowned individual with research focus in experimental high energy physics. The candidate is expected to complement and strengthen the particle physics activities with regard to the research topics and methods used. The present research focus (physik2.unigoettingen.de) is placed on the operation and data analysis of the ATLAS experiment at the LHC and on detector development in the BMBF-Research Centre (Forschungsschwerpunkt) FSP-101; we expect the applicant to play an active role in the FSP-101 ATLAS.

We expect a strong commitment to deepen the Göttingen research focus within the field of particle- and astrophysics in cooperation with the Institutes of Theoretical Physics and Astrophysics. The successful candidate will also have a strong commitment to teaching and will take part in the teaching program of the Department of Physics at both the undergraduate and graduate levels. The Department of Physics with its new building offers a very good scientific and technical infrastructure.

As a Public Law Foundation, the University of Göttingen holds the right of appointment. Preconditions for appointment are laid down in § 25 of the Higher Education Law of Lower Saxony of 26.02.2007 (Official Law Gazette of Lower Saxony, Nds. GVBl. 5/2007, p. 69). Further details will be explained on request. We explicitly welcome applications from abroad. Under certain circumstances part-time employment is possible. The University strives to increase its proportion of female staff and specifically encourages qualified women to apply. Disabled persons with corresponding aptitude for the position will be favoured.

Interested candidates are requested to send their application, including a curriculum vitae, description of their scientific and teaching career, publication list with emphasis on the five most important publications and certificates no later than **April 24, 2009**.

Please send your application to:

Dekan der Fakultät für Physik, Georg-August-Universität Göttingen, Friedrich-Hund-Platz 1, D-37077 Göttingen, Germany

Max Planck Institute for Physics

(Werner Heisenberg Institute)



ATLAS Postdoctoral Position

The *Max-Planck-Institut für Physik* participates in the ATLAS experiment at the Large Hadron Collider (LHC) at CERN. Its researchers contributed to the design, construction and commissioning of the Semiconductor Tracker, the Hadron Endcap Calorimeter and the Muon Spectrometer of the ATLAS detector. The maintenance and calibration of these detector components and the preparation for the analysis of the first data including the operation of an ATLAS Tier-2 computing center are major present activities.

We invite applications for a postdoctoral position in experimental particle physics within our ATLAS Group. Candidates are expected to contribute to the operation of the ATLAS detector, to the development of reconstruction or analysis software, and to the data analysis, in particular to searches for the Higgs boson or for supersymmetric particles, and to measurements of Standard Model processes in which the group is involved.

Salary and benefits are according to the German public service pay scale (TVöD Bund). The contract is initially limited to three years with the possibility of extension. The Max Planck Society is an equal opportunity employer committed to increasing the participation of women wherever they are underrepresented. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply.

For questions please contact Dr. Hubert Kroha (kroha@mppmu.mpg.de). Applicants should send a cover letter with curriculum vitae, list of publications and statement of research interests and arrange for three letters of recommendation to arrive no later than April 30, 2009 at the following address:

Max-Planck-Institut für Physik
(Werner-Heisenberg-Institut)
c/o Ms. A. Schielke
Föhringer Ring 6
D-80805 München, Germany
schielke@mppmu.mpg.de



MAX-PLANCK-GESELLSCHAFT



The European
Light Source

European Synchrotron Radiation Facility

We Highlight Science



The ESRF is a multinational research institute, employing 600 staff, located in Grenoble in the heart of the French Alps. The ESRF is financed by 19 countries and carries out fundamental and applied research with synchrotron (X-ray) light.

In the context of an upgrade of the accelerator systems, we are currently seeking:

Radio Frequency Engineer

for the development and implementation of high power 352 MHz solid state RF amplifiers
<http://www.esrf.eu/Jobs/Technical/4134>

Engineer in Power Electronics

for the development of accelerator magnets and associated power supplies
<http://www.esrf.eu/Jobs/Technical/4135>

Interested candidates may send a fax (+33 (0)4 76 88 24 60) or e-mail (recruitm@esrf.fr) with their address, to receive an application form, which can also be printed from the web.

Deadline for applications: 30th April 2009.

Foundation for Fundamental Research on Matter

The Foundation for Fundamental Research on Matter (FOM) promotes, co-ordinates and finances fundamental research of international standard/calibre in The Netherlands. It is an autonomous foundation responsible to the physics division of the national research council NWO. FOM employs about 900 people, primarily scientists (including PhD students) and technicians, who work at FOM research institutes and research groups at universities. FOM is chiefly financed by the NWO (Netherlands Organisation for Scientific Research) Governing Board and NWO Physics and can be considered as the Physics Division of NWO. In addition to the government funds of NWO, FOM acquires financial means from the European Union and through collaboration with the industry and universities. For additional information see www.fom.nl.



Nikhef is the national institute for subatomic physics in the Netherlands with about 240 employees: 145 physicists, 75 engineers / technicians and 20 employees for General support. Based in Amsterdam, it is a collaboration between four universities and the funding agency FOM. The institute co-ordinates and supports major Dutch activities in experimental subatomic physics, among them the ATLAS, LHCb and Alice experiments at the Large Hadron Collider at CERN and several astroparticle physics projects, such as the ANTARES neutrino telescope, the Auger cosmic-ray observatory and the Virgo gravitational wave interferometer. Nikhef has in addition a theory department.

Nikhef has an opening for a

staff scientist

with tenure in the B-physics programme.

Requirements

The applicant must have a PhD and an excellent research and publication record in particle physics. Applicants are judged as to creativity, competence in modern information technology, ability to establish an active research line including supervision of PhD students and the ability to communicate developments through seminars as well as public lectures.

Information

Further information can be obtained from the leader of the B-physics group, prof. dr. Marcel Merk (phone +31 20 5925107 or by email Marcel.Merk@nikhef.nl or from the chairman of the selection committee, prof. dr. Eric Laenen, (phone +31 20 5925127 or by email Eric.Laenen@nikhef.nl). Job interviews are foreseen in week 22 until 24, 2009.

Applications

Candidates are invited to send their application, including curriculum vitae, list of publications as well as three letters of reference before May 7th, 2009 to Nikhef, att. Mr. T. van Egdom, P.O. Box 41882, NL-1009 DB Amsterdam, or by email to Teus.van.Egdom@nikhef.nl.

Please quote vacancy nr: 090148

All qualified individuals are encouraged to apply.



CERN COURIER

May issue

Booking deadline
Wednesday 8 April

Copy deadline
Monday 13 April

Distribution
Thursday 23 April

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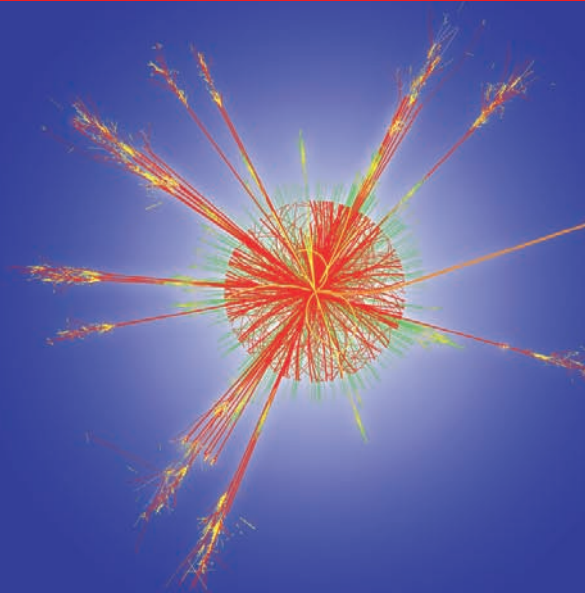
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A Orsay le 23 février 2009

LABORATOIRE DE L'ACCÉLÉRATEUR LINÉAIRE
IN2P3 du CNRS et Université PARIS-SUD 11
Centre Scientifique d'Orsay - Bât 200 - B.P. 34
91898 ORSAY Cedex (France)

Description de poste :

Directeur technique du Laboratoire de l'Accélérateur Linéaire d'Orsay

Le Laboratoire de l'Accélérateur Linéaire (LAL) :

Le LAL est une unité mixte de recherche de l'Institut National de Physique Nucléaire et de Physique des Particules (IN2P3) du CNRS, et de l'Université Paris Sud. Il compte environ 335 personnes réparties en 100 physiciens, 200 ingénieurs et techniciens et 35 administratifs. Le personnel technique est réparti entre des services généraux (réalisation mécanique, infrastructures et sécurité, achats et logistique) et des services d'ingénierie qui travaillent en symbiose avec les groupes de physiciens (mécanique, électronique, informatique, étude et réalisation d'accélérateurs). Le LAL a également en charge plusieurs pôles et plateformes technologiques au service de l'ensemble de la communauté. Pour en savoir plus sur le LAL :

<http://www.lal.in2p3.fr/spip.php?article176>

Le Directeur Technique :

Le directeur technique assure la coordination de l'ensemble des services techniques généraux et d'ingénierie. Il est membre de l'équipe de direction du laboratoire aux côtés du directeur, du directeur adjoint et de la responsable administrative.

Ses fonctions comportent :

- le suivi des grands projets impliquant les équipes techniques du laboratoire,
- la proposition des évolutions structurelles du secteur technique du laboratoire,
- l'élaboration de la politique concernant les personnels techniques et la proposition des recrutements à effectuer,
- la proposition d'une politique d'acquisition d'équipements de laboratoire,
- le suivi des évolutions en matière de locaux et infrastructures techniques,
- le plan campus et le futur déménagement du laboratoire rendront ce secteur critique dans les prochaines années,
- les réalisations techniques avec différents partenaires : laboratoires voisins, laboratoires partenaires dans certaines collaborations, partenaires industriels... Une attention particulière sera portée à la valorisation des compétences existantes.

Le directeur technique devra faire preuve d'une forte capacité d'organisation. Ce sera un homme de terrain très présent auprès des personnels dont il obtiendra l'adhésion aux choix stratégiques de la direction par le dialogue et l'explication. Au-delà d'une solide compétence technique, ce seront ses qualités de manager et de meneur d'hommes qui assureront le succès de sa mission. La langue de travail sera le français.

CDD d'une durée de 3 ans renouvelable une fois.

Merci d'envoyer CV et lettre de motivation à : personnel@lal.in2p3.fr



Cornell Laboratory for
Accelerator-based Sciences and Education (CLASSE)

Research Associate

The Cornell Laboratory for Accelerator-based Sciences and Education (CLASSE) has an opening for a Research Associate to work on research and development for a broad range of topics involving RF superconductivity for particle accelerators.

Please provide an application and arrange to have at least three letters of reference sent to: Dr. Hasan Padamsee, Chair, Search Committee, Laboratory for Elementary-Particle Physics, Newman Laboratory, Cornell University, Ithaca, NY 14853 USA.

Applications should include a curriculum vita, publication list, summary of research experience and interests. Electronic to search@lepp.cornell.edu. For a complete description of the ad, please visit www.lepp.cornell.edu and click on Jobs.

Cornell is an equal-opportunity/affirmative action employer.

Accelerators | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association



PHOTO INJECTOR .

DESY, Zeuthen location, is seeking: Scientist (m/f)

DESY

DESY is one of the world's leading centres for the investigation of the structure of matter. DESY develops, runs and uses accelerators and detectors for photon science and particle physics.

State-of-the-art electron sources with excellent beam quality are indispensable for next generation light sources like free electron lasers. Such electron guns are being developed and operated at the PITZ photo injector test facility at Zeuthen (near Berlin).

The position

- Participation in one of the international leading groups for the development of RF photo injectors consisting of physicists and engineers of different nationality
- Development of innovative concepts, techniques and applications for new electron sources as well as diagnostics components
- Participation in the experimental characterization of electron sources
- Responsibility for parts of the PITZ project
- Contributions to FLASH and the European XFEL
- Participation in the shift operation of PITZ

Requirements

- Excellent university degree in physics or engineering, including a PhD
- Sound knowledge and experience in optics (laser and incoherent radiation) and/or accelerator physics and technology
- Some experience in project leadership
- Proficiency in German and English
- Willingness to travel abroad and to participate in international conferences
- Good communication skills

For further information you may also contact Dr. Frank Stephan (+49 33762 7-7338 or frank.stephan@desy.de).

DESY operates flexible work schemes. Handicapped persons will be given preference to other equally qualified applicants. DESY is an equal opportunity, affirmative action employer and encourages applications from women.

Please send your application quoting the reference code, also by E-Mail to:

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: 16/2009

Notkestraße 85 | 22607 Hamburg | Germany Phone: +49 40 8998-3765 |

E-Mail: personal.abteilung@desy.de

Deadline for applications: 30 April 2009

www.desy.de

The Helmholtz Association is Germany's
largest scientific organisation.
www.helmholtz.de



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ACCEL Instruments GmbH is the German subsidiary of Varian Medical Systems, Inc. the world's leading manufacturer of medical devices and software for treating cancer and other medical conditions with radiotherapy, radiosurgery and proton therapy. In January 2007, Varian acquired ACCEL Instruments GmbH, a privately-held supplier of proton therapy systems for cancer treatment and scientific research instruments. Varian develops and produces proton therapy systems for the world wide market with 150 employees in Bergisch Gladbach near Cologne, Germany.



Proton Therapy Systems Engineer f | m

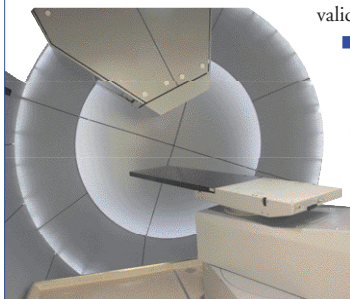
PTE 5008

Major Tasks:

- Manage proton therapy system integration
- Manage system integration testing/verification/validation
- Manage system level engineering documentation (e.g. specifications, test plans)
- Specify and manage internal and external system interfaces

Education/Experience:

- Degree in Engineering or Physics
- Experience in system engineering or leading scientific physics projects
- Knowledge in at least one of the fields of experimental nuclear physics, accelerator techniques or beamline techniques
- Knowledge of medical product specifics, particle therapy or radiation therapy advantageous but not required
- Fluent in English and German
- Willing to travel



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Rheinische Friedrich-Wilhelms-Universität Bonn

The Institute of Physics in the Faculty of Mathematics and Natural Sciences at the University of Bonn seeks to fill the position of a

Professor (W2) for Experimental Physics

(Particle Physics)

starting **1 October 2009**.

Particle Physics is one of the three research foci of the department of physics and astronomy at the University of Bonn. The experimental groups carry out accelerator based research in the experimental collaborations ATLAS and COMPASS at CERN and at the ELSA accelerator in Bonn and soon also in Particle Astrophysics. The department of physics seeks to strengthen and expand with this opening the profile of experimental particle physics. Applicants with experience and interest in research in the area of heavy quark physics, in particular at B-factories, will find special interest. A participation in existing research activities and structures is desired.

Applicants should be able to teach all aspects of particle physics. The teaching duties also include courses for science students from other disciplines. An active participation within our "Bonn-Cologne Graduate School of Physics and Astronomy", a winner in the "German Excellence Initiative", is expected.

Appointments follow the rules and regulations of the Universities of Northrhine-Westfalia. The University of Bonn aims at increasing the fraction of female staff and encourages women to apply. Equally qualified but disabled candidates will be appointed preferentially.

Applications including the usual professional documentation should be sent to the **Head of Department of Physics and Astronomy, Endenicher Allee 11-13, D - 53115 Bonn, Germany**. The deadline is **15 April 2009**.

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Cryophysicist

The ORNL Physics Division seeks a physicist with experience in design, construction, and operation of large milli-Kelvin cryogenic systems for a leading role in the neutron electric dipole moment (nEDM) search in preparation at the Spallation Neutron Source in Oak Ridge. The nEDM project is a multi-institution project supported by the US, DOE, and NSF. The experiment includes the design, construction, and operation of a 1000 liter container of liquid helium at 0.3 K using a high-flow dilution refrigerator and a dedicated helium liquefier. Many components include the deliberate transport of ^3He between separate volumes in the few hundred milli-Kelvin regime via novel techniques.

The successful candidate will play a leading role in the design, assembly, and commissioning of the entire nEDM cryogenic system. The successful candidate will work with ORNL technical staff and external collaborators to assemble, test, and operate the cryogenic systems. At times, it may be desirable for the candidate to participate in the testing of components at participating institutions.

Candidates must have significant experience in the design, maintenance, and operation of the technology for attaining sub-Kelvin conditions – to include dilution refrigeration systems and superfluid helium. Experience with magnetic fields and electronic instrumentation is also highly desirable, as is a background in nuclear and/or neutron physics. The candidate should hold a Ph.D. or equivalent, have experience with a large experimental project, and have published work on similar experiments.

For further consideration, please visit <http://jobs.ornl.gov/> and reference posting Cryophysicist in the keyword search field. Oak Ridge National Laboratory is an equal opportunity employer.

Universität Bielefeld

Heisenberg-Professorship (W2) in Theoretical Particle Physics

The Department of Physics invites applications for a professorship in Theoretical Particle Physics. Candidates should have an outstanding record of research especially in the area of QCD precision calculations applied to physics of proton-proton-collisions at the LHC as well as the electron-positron-collisions at a future Linear Collider. They should have overlapping research interests to the existing research areas (thermal field theory, lattice QCD, cosmology) and should participate in the activities of the International Graduate School "Quantum Fields and Strongly Interacting Matter".

The successful candidate will take part in the regular teaching activities of the Faculty, in particular those in theoretical physics. We expect corresponding pedagogical abilities and enthusiasm.

Formal requirements are a PhD and additional scientific merits, which will be evaluated during the selection procedure.

Applicants should also apply to the DFG for a Heisenberg Professorship at the same time. To be appointed they have to successfully take part in the DFG's review process and to be selected by the university. The initial appointment is for 5 years, funded by the DFG. After a positive evaluation the position will become tenured.

The University of Bielefeld is an equal opportunity employer, and we particularly appreciate handicapped and female applicants. In case of equal qualification and suitability, female applicants will be given priority.

Applications including the usual material should be sent by April 30, 2009 to

The Dean

Faculty of Physics
Bielefeld University
Postfach 10 01 31
D-33501 Bielefeld
dekanat@physik.uni-bielefeld.de

Max Planck Institute for Physics

(Werner Heisenberg Institute)



The Max Planck Institute for Physics invites applications for a

Postdoctoral position

focused on the commissioning of the GERDA experiment.

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 successful candidate is expected to take a leading role in following and helping the commissioning phase of the GERDA experiment. This will involve frequent travelling to the Laboratori Nazionali del Gran Sasso underground laboratory (LNGS). The candidate will also be responsible for evaluation of Monte Carlo simulations of the GERDA setup and the comparison of the first GERDA data with expectations from these simulations. First data of the GERDA experiment are expected this year.

Formal requirement for this position is a PhD in experimental physics. The candidate should have a background in nuclear-, particle-, or astroparticle physics and a good knowledge of programming. Experience with HPGe diodes, C++, Root and GEANT 4 are an advantage.

Salary and benefits are commensurate with the German public service pay scale (TVöD Bund). The contract is initially limited to 2 years, with the possibility of an extension. The Max Planck Society is an equal opportunity employer. One of its goals is to increase the percentage of women in positions where they are underrepresented. Women are especially encouraged to apply. The Max Planck Society is committed to employing more handicapped people. Applications of handicapped people are particularly welcome.

Further information may be obtained from Dr. Béla Majorovits (bela@mppmu.mpg.de) or Prof. Allen Caldwell (caldwell@mppmu.mpg.de). 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 arrive no later than April 30 at

Max-Planck-Institut für Physik

(Werner-Heisenberg-Institut)

c/o Ms. F. Rudert
Föhringer Ring 6
D-80805 München
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