

Recruitment

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UNIVERSITY OF BIRMINGHAM



School of Physics and Astronomy College of Engineering and Physical Sciences

Lecturer/Senior Lecturer/Reader in Particle Physics Instrumentation – reference 52934

Level of appointment will depend on the skills/experience of the candidate

Starting salary of appointment at Lecturer level £38,511 to £51,702. Starting Salary at Senior Lecturer or Reader level £47,328 to £71,509

The School of Physics and Astronomy at the University of Birmingham has over 100 academic and research staff covering a broad range of research interests, along with 120 graduate students and 35 technical staff. It takes in around 180 undergraduates per year. As part of a major new strategic investment by the University in particle physics instrumentation, Birmingham has appointed a new professor (Allport) to lead this activity and is making rolling appointments of 3 new academic positions. The second post, having the role to support the ATLAS Tracker Upgrade programme is available with immediate effect at a level dependent on the experience and qualifications of the successful candidate.

Applicants are invited to obtain more information and submit their application online to us, via www.hr.bham.ac.uk/jobs. Informal inquiries to Prof Phil Allport (allport@cern.ch; tel: +44-1214144717) or Prof Paul Newman (paul.newman@cern.ch; tel: +44-1214144617).

Closing date: 11th December 2015

VALUING EXCELLENCE; SUSTAINING INVESTMENT.



IceCube WinterOver Experiments Operator

WIPAC is a research center at the UW-Madison responsible for the IceCube Neutrino Observatory at the South Pole.

Working as a team with one additional IceCube winter-over personnel, this position will be responsible for all winter-over operations of this state-of-the-art neutrino observatory.

This position is located at the Amundsen-Scott South Pole Station and reports to the Winter-over Manager in Madison, WI.

Training for two candidates is anticipated to begin in Madison, WI at the beginning of August 2016. Deployment to the South Pole is expected to be in early October 2016 for 12-13 months with no possibility of leaving during the winter months from mid-February to mid-October.

Successful candidates will attend the NSF contractor orientation program and will be expected to pass physical and psychological evaluations to work at polar and high altitude sites for one year, as required by the National Science Foundation (NSF) Office of Polar Programs.

M.S. in Computer Science, Physics, Electrical Engineering or related field is required. B.S. in Computer Science, Electrical Engineering, or related field and substantial (equivalent to a Masters degree) experience will be considered.

For instructions to apply
<https://icecube.wisc.edu/jobs>

To ensure consideration, application materials must be received by January 15, 2015.

POSTDOCTORAL FELLOWS

Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo, Japan

The "Kavli Institute for the Physics and Mathematics of the Universe" (Kavli IPMU) is an international research institute with English as its official language established in October 2007. The goal of the institute is to discover the fundamental laws of nature and to understand the universe from the synergistic perspectives of mathematics, statistics, theoretical and experimental physics, and astronomy. We are particularly interested in candidates with broad interests and a willingness to interact with people across disciplines.

We intend to offer more than a dozen postdocs with three-year terms. We seek to build a diverse, highly interactive membership, and female and international applicants are strongly encouraged. We have generous travel support for our postdocs, and encourage full-time members to be away from the Institute for between 1 and 3 months every year.

The focus of Kavli IPMU includes but is not limited to: all areas of mathematics (e.g. algebra, geometry, analysis, and statistics); string theory and mathematical physics; particle theory, collider phenomenology, beyond the standard model physics phenomenology; cosmology and astrophysics theory; astronomy and observational cosmology; and particle and underground experiments. We are leading efforts on



the XMASS dark matter experiment, the KamLAND-Zen neutrino experiment, the Hyper Suprime-Cam (HSC) project for weak lensing surveys and Prime Focus Spectrograph (PFS) for the dark energy at the Subaru Telescope, GADZOOKS! at Super-Kamiokande, the Belle II experiment, T2K long baseline neutrino experiment, SDSS-IV for a survey of galaxies, POLARBEAR CMB B-mode polarization measurement, and R&D for future large neutrino detectors and the LiteBIRD satellite.

We have embarked on a new frontier field of statistical computational cosmology. We plan to develop applications to statistically extract cosmological parameters from a huge dataset from the Subaru wide field survey. We have a few positions for this project which is supported by CREST from Japan Science and Technology Agency (JST).

The search is open until filled, but for full considerations please submit the applications and letters on the application form by Dec 1, 2015

Further information can be found here:

<http://www.ipmu.jp/job-opportunities>

For inquiries please contact: application-inquiry@ipmu.jp

Universität Bielefeld

The Faculty of Physics of Bielefeld University invites applications for

1. Junior Professorship (W1) with tenure track (W3) in Theoretical Physics

We are looking for an outstanding junior scientist with international reputation who complements and extends the local research activities in theoretical high energy physics. Current research topics include heavy ion physics, particle cosmology, thermal field theory, lattice gauge theory, and mathematical physics. We are interested in applicants who have demonstrated research abilities in the field of strong-interaction matter. The junior professor is expected to contribute to our international coordinated research activities.

Employment prerequisites are a university degree, teaching ability and specialized skills for scientific work, in general documented by an excellent doctoral thesis.

2. Professorship (W3) in Theoretical Physics

We are looking for an outstanding scientist with international reputation who complements and extends the local research activities in theoretical high energy physics. Current research topics include heavy ion physics, particle cosmology, thermal field theory, lattice gauge theory, and mathematical physics. We are interested in applicants who have expertise in strong-interaction matter. The professor is expected to contribute to our international coordinated research activities.

Employment prerequisites are a university degree, teaching ability, specialized skills for scientific work, in general documented by an excellent doctoral thesis, and additional scientific achievements which will be evaluated in the hiring procedure.

All applicants should demonstrate commitment to excellence in teaching Theoretical Physics both at the undergraduate and graduate level.

Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.

Bielefeld University has been repeatedly awarded for succeeding in equal opportunities and has been certified as a family friendly university. Applications of women are appreciated. This especially applies to the scientific sector as well as to those of technology, IT and crafts.

Applications are treated according to the regulations of the Landesgleichstellungsgesetz (North-Rhine-Westphalian Equal Opportunities Act).

We ask the candidates to send a single application and to indicate if they apply for the W1 or W3 level. Only one position will be filled. The expected date of appointment is Jan 1st, 2017.

Applications including CV, list of publications, research and teaching proposals, information on previous research and teaching experience as well as third-party funding should be submitted until **January 4th 2016** to:

Bielefeld University
Dean of the Faculty of Physics
Postfach 100131, D-33501 Bielefeld, Germany
e-mail: dekanat@physik.uni-bielefeld.de

Please send in your application via e-mail rather than hard copy. All application data will be deleted or destroyed permanently after the recruitment process has been completed.



→ www.uni-bielefeld.de

Accelerators | Photon Science | Particle Physics
Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association



FLASH EXPERIMENTS.

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

DESY

DESY is one of the world's leading research centres for photon science, particle and astroparticle physics as well as accelerator physics.

DESY operates the free electron laser FLASH whose GW level, femtosecond pulses offer unique opportunities for multidisciplinary research in the vacuum ultraviolet and soft X-ray (XUV) range. The combination with synchronised optical laser systems and strong-field phase locked THz pulses allows exploring ultrafast timescales using pump-probe techniques. The facility is currently extended and will double its capacity for experiments. We have an immediate opening for a PostDoc who is willing to join the team responsible for the THz beamlines at FLASH.

The position

- Participation in development and commissioning of the high-field THz sources at FLASH1 (in operation) and FLASH2 (under construction), with particular emphasis on diagnostics instrumentation and development of novel XUV/THz pump-probe techniques
- Support of the international user groups during experiment campaigns involving XUV/THz pump-probe experiments at FLASH, and possible participation in the experiments
- Contribution to the in-house research program at FLASH, preferentially utilizing THz beamlines

Requirements

- PhD in experimental physics or a related field
- Hands-on experience with THz (infrared) sources and optics; experience with combining THz with visible and/or UV-soft X-ray sources is an advantage
- Experience with ultrafast radiation sources, preferentially with ultrafast accelerator-based sources
- Background in short-pulse interactions with matter is desirable
- Team player with good communication skills
- Good knowledge of the English language

For further information please contact Nikola Stojanovic +49-40-8998-4526.

The position is limited to 3 years.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. 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. There is a bilingual kindergarten on the DESY site.

We are looking forward to your application quoting the reference code preferably via our electronic application System: Online-Application or by email recruitment@desy.de

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: EP046/2014

Notkestraße 85 | 22607 Hamburg | Germany | Phone: +49 40 8998-3392

Deadline for applications: until the position is filled

www.desy.de

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





Open Positions in the OMA project

Cancer is a major social problem and it is the main cause of death between the ages 45-65 years. Radiotherapy plays an essential role in the treatment of cancer.

The Optimization of Medical Accelerators (OMA) is the aim of a new European research and training network.

OMA addresses the challenges in treatment facility design and optimization, numerical simulations for the development of advanced treatment schemes, and in beam imaging and treatment monitoring.

The network is currently offering Fellowships to 15 talented, energetic, highly motivated early career researchers that will be employed by the different beneficiary partners across Europe. Possibilities for enrolling into a PhD programme exist.

Each researcher will benefit from a wide ranging training that will take advantage of both local and network-wide activities. Excellent salaries will be offered. Most positions are for starting on 1st October 2016.

Application deadline:
28th February 2016

Contact and further detail:
Prof. Dr. Carsten P. Welsch
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carsten.welsch@cockcroft.ac.uk

www.oma-project.eu

