

# Recruitment

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PLEASE CONTACT US FOR INFORMATION ABOUT RATES, COLOUR OPTIONS, PUBLICATION DATES AND DEADLINES.

## Deputy Director, Accelerator Division Brookhaven National Laboratory – National Synchrotron Light Source II

The Accelerator Division of the new NSLS-II synchrotron, which will start delivering beam to users by the Fall of 2014, is seeking a Deputy Accelerator Division Director. The successful candidate will report to the Division Director and provide support in managing the operations of the NSLS-II accelerator, executing upgrade projects, and reporting status to Laboratory management and DOE. The Deputy will also assist in supervising and providing guidance to the excellent technical and scientific staff of the accelerator division.

### Qualifications Required:

- PhD in Physics or a related discipline
- Proven record as a successful accelerator physicist/engineer recognized in the accelerator community
- 10 years experience in operating accelerators
- Success in managing accelerator projects
- Experience in overall project management, operations management, and the management of human resources
- Understanding of typical interface issues in a multifaceted complex synchrotron environment
- Excellent communication and interpersonal skills and the ability to interact effectively with a diverse group of technical staff
- Comprehensive organizational skills and demonstrated success in roles requiring execution of multiple tasks while responding to multiple priorities
- Strong supervisory or mentoring abilities.

Please apply at [www.bnl.gov/hr/careers](http://www.bnl.gov/hr/careers) and apply to Job ID# 16555.



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

## Postdoctoral Associate

The Cornell Laboratory for Accelerator-based Sciences and Education (CLASSE) invites applications for a Postdoctoral Associate position with its effort on Fermilab E989, the Muon g-2 experiment. The Cornell group plays significant roles in the development of both the detector and the muon storage ring beam instrumentation. Hardware responsibilities range from for development of a new, fast injection kicker, which is required to store the muon beam, to the development of the electromagnetic calorimeter electronics for detecting decay electrons. The Cornell group also plays a leading role in a broad range of simulation and analysis efforts covering muon beam dynamics, detector performance, and the spin precession analysis. The successful applicant will assume key responsibilities in the electronics design and construction projects, as well as in the development of reconstruction and analysis techniques for the determination of g-2, and in the commissioning / analysis activities of the experiment. To maintain continuity of effort, the postdoc position will ideally begin late Spring or early Summer, 2014.

Applicants must have a PhD in experimental high energy, nuclear or accelerator physics. Applications should be submitted at <https://academicjobsonline.org/ajo/jobs/3676> and should include a CV, a list of publications, a statement of research interests, and three letters of recommendation. All materials, including all letters of recommendation, must be received by January 31, 2014. For information about the position, contact Prof. Lawrence Gibbons at [lawrence.gibbons@cornell.edu](mailto:lawrence.gibbons@cornell.edu).

*Cornell University is an equal-opportunity/affirmative action employer.*

## Fully-funded PhD studentships

at the Cockcroft Institute of Accelerator Science and Technology



The Cockcroft Institute – a collaboration between academia, national laboratories, and industry based in the north west of England – brings together the best particle accelerator scientists, engineers, educators and industrialists to conceive, design, construct and use particle accelerators at all scales and lead the UK's participation in flagship international experiments.

Students will join an internationally leading education program with 40+ PhD students at the Cockcroft Institute. Students will be placed in one of the partner universities (Lancaster, Liverpool or Manchester) in either Physics or Engineering departments, depending on the applicant's aptitude, preference and suitability to the posts.

PhD places are currently available at the Cockcroft Institute in:

- RF Science and Engineering
- Particle Tracking and Beam Dynamics
- Mathematical Physics
- Beam diagnostics and instrumentation
- Photonics and Metamaterials
- Laser applications in accelerators
- Antimatter and Dark Matter research
- Current and Future Particle Colliders (inc. LHC)
- Next generation light source facilities

More detail on individual projects can be found at:  
<http://www.cockcroft.ac.uk/education/informationPhd.htm>  
Queries can be sent to Dr G. Burt.  
Email: [graeme.burt@cockcroft.ac.uk](mailto:graeme.burt@cockcroft.ac.uk)

Prospective students should forward a CV and supporting materials to: Janis Davidson,  
Email: [janis.davidson@stfc.ac.uk](mailto:janis.davidson@stfc.ac.uk)  
Closing date for applications: 28th February, 2014



The Cockcroft Institute  
of Accelerator Science and Technology

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



# PHOTO INJECTOR.

## DESY, Zeuthen location, is seeking: Several Postdocs and PhD-Students (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.

The Photo Injector Test Facility PITZ in Zeuthen (near Berlin) develops high brightness electron sources for Free Electron Lasers (FELs) like FLASH and European XFEL. As part of the accelerator R&D program of the Helmholtz Association the focus of the research program at PITZ is the:

- ultimate optimization of high brightness electron beams by generating 3D ellipsoidal electron bunches, and
- beam driven plasma acceleration experiments on the self-modulation of particle beams and on the efficient generation of beam driven plasma wakes.

### The position

- Work in a world-leading international group of physicists and engineers for the development of photo injectors
- Development of innovative concepts and techniques for the diagnostics of high-quality laser and electron beams
- Perform numerical simulations to study and optimize subcomponents of the photo injector with respect to applications of high brightness electron beams for FELs and in plasma acceleration experiments
- Participate in the shift operation of PITZ for accelerator R&D

### Requirements

- Excellent university degree in physics or engineering (for Postdoc applicants: PhD degree)
- Knowledge of accelerator physics and accelerator techniques
- Knowledge of laser and incoherent optics and/or plasma acceleration is of advantage
- Experience in beam dynamics simulations and numerical methods is useful
- Very good knowledge of English is required and knowledge of German is of advantage

For further information please contact Dr. Frank Stephan, phone +49 33762-77338.

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.

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

**Deutsches Elektronen-Synchrotron DESY**

Human Resources Department | Code: PITZ

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

E-Mail: [recruitment@desy.de](mailto:recruitment@desy.de)

**Deadline for applications: Until the positions are filled**

**[www.desy.de](http://www.desy.de)**

The Helmholtz Association is Germany's largest scientific organisation.  
[www.helmholtz.de](http://www.helmholtz.de)



Diamond Light Source is the UK's national synchrotron science facility. Located at Harwell Science and Innovation Campus in Oxfordshire, Diamond enables world-leading research across a wide range of scientific disciplines and industrial applications.

## Power Supplies: Head of Group/ Engineer/Technician Vacancies

Diamond's accelerators contain over 1200 magnet power supplies of various types including DC, cycling and pulsed systems. High stability, reproducibility and reliability are essential for these systems which are critical to the operation of the facility. Diamond is now seeking a number of staff to work in the Power Supply Group at various possible grades.

### Head of the Power Supply Group (DIA0889-a/NH)

You will report to the Technical Director and have overall responsibility for the operation, maintenance and future development of Diamond's magnet power supplies. You will be required to provide technical direction to the development of new power supplies.

### Senior Power Supply Engineer (DIA0889-b/NH)/ Power Supply Engineer (DIA0889-c/NH)

You will play a key role in the Power Supply Group, leading power supply design and development projects that are required to meet the evolving requirements of the accelerators. You will also coordinate planning and maintenance activities and analysing fault statistics to identify power supply enhancements that will improve reliability.

### Senior Power Supply Technician (DIA0889-d/NH)/ Power Supply Technician (DIA0889-e/NH)

You will contribute to the work of the Power Supply Group, including planned maintenance activities and the installation and commissioning of new power supplies that are required to meet the evolving requirements of the accelerators.

**These positions offer comprehensive benefits, competitive salary, dependent on qualifications and relevant experience, and a relocation package where applicable.**

**Closing date: 31 January 2014.**

**For further information on these vacancies see [www.diamond.ac.uk](http://www.diamond.ac.uk)**

[www.diamond.ac.uk](http://www.diamond.ac.uk)



Diamond Light Source Ltd, Diamond House, Harwell Science and Innovation Campus, Didcot, Oxfordshire OX11 0DE

# RWTH AACHEN UNIVERSITY

**Full Professor (W3)  
in Theoretical Astroparticle Physics and Cosmology**  
Faculty of Mathematics, Computer Science, and Natural Sciences

We are seeking qualified applicants for teaching and research in the area of theoretical astroparticle physics and cosmology. The starting date is the winter term 2014/15. The professorship should establish theoretical astroparticle physics and cosmology as a central research activity at the RWTH Aachen University and at the Forschungszentrum Jülich through the Jülich-Aachen research alliance JARA-FAME. A close collaboration with the groups of theoretical particle physics and experimental astroparticle physics will be appreciated. Contributions to the teaching in our bachelor program in physics and in our international master's program in physics is expected.

A Ph.D. degree is required; additionally, Habilitation (post-doctoral lecturing qualification), an exemplary record of research achievement as an assistant / an associate / a junior professor or university researcher and/or an outstanding career outside academia are highly desirable. Ability in and commitment to teaching are essential. German is not necessary to begin but will be expected as a teaching language within the first 5 years.

The application should include supporting documents regarding success in teaching.

Please send a cover letter stating research aims and a CV to: An den Dekan der Fakultät 1 der RWTH Aachen, Prof. Dr. Stefan Kowalewski, 52056 Aachen, Germany. The deadline for applications is February, 28th, 2014.

This position is also available as part-time employment per request. RWTH Aachen University is certified as a family-friendly university and offers a dual career program for partner hiring. We particularly welcome and encourage applications from women, disabled people and ethnic minority groups, recognizing they are underrepresented across RWTH Aachen University. The principles of fair and open competition apply and appointments will be made on merit.

## brightrecruits.com



The jobs site for physics and engineering



The Department of Physics at the Technische Universität Darmstadt has an opening for a

**Full Professor (W3) in  
"Theoretical Nuclear Physics"** (Code. No. 475)

The Professorship is part of the new Theory Center at the Institute for Nuclear Physics.

We are seeking an outstanding individual who will broadly contribute to theoretical physics in research and teaching, and enhance the activities at the Institute for Nuclear Physics. Applications are invited in the area of the field-theoretical description of strongly interacting systems within the framework of Quantum Chromodynamics. Active participation in existing and future collaborative research activities of the Institute of Nuclear Physics and the Department of Physics is expected. Present initiatives include the Helmholtz International Center for FAIR, the Helmholtz Extreme Matter Institute (EMMI), and the Collaborative Research Center 634.

The position is tenured with a remuneration package commensurate with experience and qualifications, following the German "W-Besoldung". The regulations for employment are specified under §§ 61 and 62 HHG (Hessisches Hochschulgesetz).

The Technische Universität Darmstadt intends to increase the number of female faculty members and encourages female candidates to apply. In case of equal qualifications applicants with a degree of disability of at least 50 or equal will be given preference.

Applications including a curriculum vitae, list of publications, as well as a description of research and teaching activities should be sent by **February 28, 2014** to the Head of the Department of Physics, Technische Universität Darmstadt, Pankratiusstr. 2, D-64289 Darmstadt, Germany.



**NUI MAYNOOTH**  
Oileán na hÉireann Mí Nuad

The National University of Ireland Maynooth (NUI Maynooth) is the fastest growing university in Ireland with over 8,500 students and outstanding research and scholarship in the sciences, humanities and social sciences. The university is now entering a new and exciting phase of its development, with a new strategic plan centred on further enhancing our academic programmes, providing a distinctive student experience of the highest quality, focusing our research activities on a small number of priority themes, and further internationalising the university. To support this development, the university is seeking to recruit outstanding academics, with a strong track record of research and teaching, to the following position:

**Assistant Lecturer / Lecturer in Mathematical Physics**

For job specification and application information, please see <http://humanresources.nuim.ie/vacancies.shtml>

The deadline for applications is 2nd March 2014.

National University of Ireland Maynooth is an equal opportunities employer



EUROPEAN  
SPALLATION  
SOURCE

The European Spallation Source is preparing to construct a world-leading European materials research centre in Lund, Sweden. ESS is an international partnership of 17 European countries.



## Be part of the future!

We are looking for a highly qualified:

## Technical Director

ESS Technical Directorate is responsible for delivery of the ESS Accelerator, Target and Integrated Control Systems. The Technical Director provides leadership and professional direction to the staff, and manages the planning and implementation of the Directorate's work scope.

For more details, have a look at:  
<http://europeanspallationsource.se/vacancies>



Stony Brook  
University

## Endowed Chair in Theoretical Physics

Stony Brook University seeks a senior faculty appointment in theoretical physics at the level of full professor to occupy the Chen Ning Yang-Deng Wei Chair, now being established. This appointment will be in the C.N. Yang Institute for Theoretical Physics, with affiliation to the Department of Physics and Astronomy. Candidates should have demonstrated exceptional scholarly achievement and potential in research. The ability to attract external funding and leadership potential will also be considered for this position. The position will include an independent research fund and carry a nationally-competitive salary.

The C. N. Yang Institute for Theoretical Physics was established in 1966 and is named for its founding director. It carries on a proud tradition of front-line research and committed education and training. Its faculty, graduates and post-doctoral alumni are active throughout the international scientific community. Current faculty carry on research in a wide range of theoretical physics, including field and string theory, particle phenomenology, statistical mechanics and quantum information. The research interests of candidates for this position may be in any area of theoretical physics, astrophysics and cosmology.

The Institute is an independent unit of Stony Brook University, reporting to the Provost. It has numerous collaborative interactions with the Department of Physics and Astronomy, the Department of Mathematics and the Simons Center for Geometry and Physics, and with other departments at Stony Brook University and with nearby Brookhaven National Laboratory. Stony Brook University is located on the scenic North Shore of Long Island. It has active cultural programs and is convenient to New York City. It has numerous leading graduate programs, and its 1,100 acre campus and 13,500 faculty and staff serve over 24,000 students. The University is a member of the Association of American Universities and co-manager of Brookhaven National Laboratory, a multidisciplinary research laboratory supporting world-class scientific programs utilizing state-of-the-art facilities.

To view application procedure, full position description or to apply online visit [www.stonybrook.edu/jobs](http://www.stonybrook.edu/jobs) (Ref. # F-8330-13-11). Nominations and suggestions from our colleagues as well as direct applications are welcome at <http://max2.physics.sunysb.edu/chairsearch/>.

*Stony Brook University/SUNY is an equal opportunity,  
affirmative action employer.*

## FACULTY POSITION

### Physics NYU SHANGHAI

NYU Shanghai's Department of Physics is currently inviting applications for a faculty position at all levels (assistant, associate, and full professor) in the general areas of hard condensed matter, atomic molecular and optical physics and quantum information. The opening is for a theoretical physicist, but experimental physicists will also be considered.

Candidates must have completed a Ph.D. and are expected to establish a leading research program in their field, as well as teach at the undergraduate level. This position is part of an initiative to create a strong program in this area, through the hiring of several faculty, with the aim of establishing research programs that relate strongly to those at other NYU campuses. The appointment could begin as soon as September 1, 2014, pending administrative and budgetary approval.

New York University has established itself as a Global Network University, with three degree-granting campuses - New York, Shanghai, and Abu Dhabi - complemented by twelve additional academic centers across five continents. NYU Shanghai is the first Sino-US higher education joint venture to grant a degree that is accredited in the U.S. as well as in China. A research university with liberal arts and sciences at its core, it resides in one of the world's great cities which is also a vibrant intellectual community (<http://shanghai.nyu.edu/>). NYU Shanghai will recruit scholars who are committed to our global vision of transformative teaching and innovative research.

The terms of employment in NYU Shanghai are comparable to U.S. institutions. Faculty may also spend time at NYU New York and other sites of the global network, engaging in both research and teaching opportunities.

Applicants should submit curriculum vitae, statement of research and teaching interests, electronic copies of up to five recent relevant publications, and the names and email addresses of three references. *The search will remain open until the position is filled, but review of applications will begin January 21, 2014.*

Please visit our website at <http://shanghai.nyu.edu/about/open-positions-faculty> for instructions and other information on how to apply. If you have any questions, please e-mail [shanghai.faculty.recruitment@nyu.edu](mailto:shanghai.faculty.recruitment@nyu.edu).



NYU Shanghai is an Equal Opportunity/Affirmative Action Employer.



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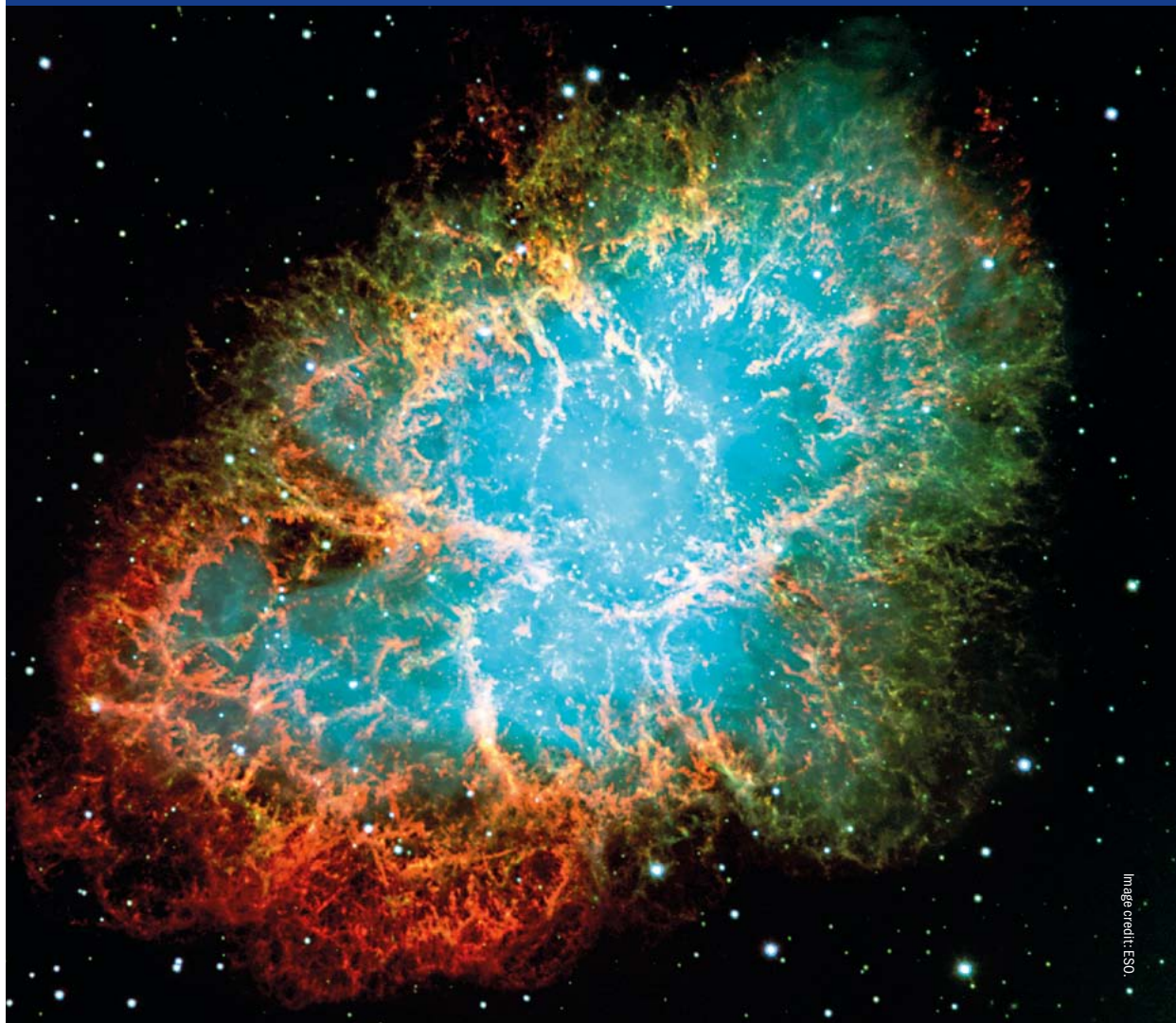


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