

Recruitment

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Imagine taking part in one of the largest scientific experiments in the world.

People at CERN are driven by a shared goal, a single purpose. They want to achieve the impossible, to do what's never been done before. Everyone here strives to be the best they can be, true specialists and industry "firsts" are created regularly – not just in the world of physics. The engineering and technical skills needed to make the experiments succeed are as world-class as the science behind them.

If you're a student, a graduate, just starting your career or an experienced professional; if you're interested in joining our technical or support teams or if you're an engineer or professional in any area from mechanics to accounting, this is more than an opportunity to start or develop your career: it's an opportunity to develop knowledge and science on a global scale.

In fact, it's an opportunity like nowhere else on Earth.
cern.ch/jobs. Take part!



HR
Human Resources

Imperial College London

Department of Materials, Faculty of Engineering Reader or Chair in Functional Thin Film Growth

Competitive Salary

We are seeking a new colleague to lead a world-class hub in functional thin film growth for device structures by establishing an internationally recognised experimental research programme. As an exceptional academic with a track record of the highest quality research in the area of the physical deposition of thin films, you are invited to apply.

This post is associated with the Atoms to Devices core research area of the Henry Royce Institute (HRI) for Advanced Materials at Imperial College London. You will be supported with purpose-built laboratory space at Imperial's new White City Campus and a generous capital equipment budget to expand our current shared facility.

You will be joining a vibrant and exciting department that enjoys an ethos of collaboration and is recognised as world-leading with strong international links.

You will be expected to:

- attract and supervise high-quality PhD students and supervise postdoctoral research staff
- publish papers in leading peer-reviewed journals
- disseminate research findings at international conferences
- seek and obtain external research funding
- contribute to the Department's outstanding teaching programmes
- interact with scientists and engineers from other departments across Imperial and the HRI, as well as to develop external collaborations both nationally and internationally.

You will possess a PhD degree (or equivalent) in physical sciences, engineering or a related discipline. You will be able to provide evidence of an international reputation including an outstanding publication record, a track record of securing major research funding and experience of teaching undergraduate students. Ability to lead a shared facility, or evidence of potential to do so through success in setting up a substantial experimental laboratory are also essential.

For more information and how to apply please visit www.imperial.ac.uk/job-applicants/.

Closing Date: 30 September 2017



PARTICLE PHYSICS.

DESY has openings for: DESY-Fellowships - experimental particle physics

DESY

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

DESY develops, runs and uses accelerators and detectors for the investigation of the structure of matter.

The position

Fellows in experimental particle physics are invited to participate in a project of DESY's particle physics research programme at Hamburg.

- Analysis and detector-upgrade in the LHC experiments ATLAS and CMS
- Preparation of future colliders (accelerator and experiments)
- Participation in the Analysis Forum of the Helmholtz Alliance "Physics at the Terascale"
- Participation in the experiments ALPS and BELLE II
- Generic development of detectors and accelerators for applications in particle physics

Requirements

- Ph.D. completed within the last 4 years
- Experience in experimental particle physics

DESY-Fellowships are awarded for a duration of 2 years with the possibility of prolongation by one additional year.

Further informations and a link to the submission system for your application and the references can be found here:

http://particle-physics.desy.de/education__career/fellowship/index_eng.html

Please note that it is the applicants responsibility that all material, including letter of references, reach DESY before the deadline for the application to be considered.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. Handicapped persons will be given preference to other equally qualified applicants. DESY operates flexible work schemes. DESY is an equal opportunity, affirmative action employer and encourages applications from women. Vacant positions at DESY are in general open to part-time-work. During each application procedure DESY will assess whether the post can be filled with part-time employees. 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

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: FHFE003/2017

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

Email: recruitment@desy.de

Deadline for applications: 30 September 2017

www.desy.de

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



PARTICLE PHYSICS.

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

DESY

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

The particle physics programme of DESY consists of strong contributions to the LHC experiments ATLAS and CMS, the Belle and Belle-2 Experiments at KEK and to the preparation of future experiments. The experimental programme is enhanced by collaboration with a strong theory group. DESY is searching an experienced experimental physicist (f/m), who will take a leading role in the physics analysis of ATLAS data and in the operational and upgrade aspects of the ATLAS experiment.

The position

- Active role in the ATLAS experiment
- Leading role in ATLAS data analysis
- Strong participation in ATLAS detector operation or upgrade (hardware and/or software)
- Participation in the supervision of students and postdocs

Requirements

- PhD in experimental Particle Physics
- Experience in data analysis
- Experience in detector operations and/or development
- Experience in software development
- Outstanding teamwork abilities and excellent communication skills and knowledge of English

For further information please contact Prof. Dr. Beate Heinemann (beate.heinemann@desy.de).

Please submit your application including a motivation letter, research interests, curriculum vitae and copies of University degrees to the DESY human resources department. Make sure that you indicate the position identifier on all communications (FHMA037/2017).

Please arrange for two letters of reference to be sent to the DESY human resource department (recruitment@desy.de), clearly stating your name and the position identifier (FHMA037/2017).

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. Handicapped persons will be given preference to other equally qualified applicants. DESY operates flexible work schemes. DESY is an equal opportunity, affirmative action employer and encourages applications from women. Vacant positions at DESY are in general open to part-time-work. During each application procedure DESY will assess whether the post can be filled with part-time employees. There is a bilingual kindergarten on the DESY site.

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Karlsruhe Institute of Technology (KIT) pools its three core tasks of research, higher education, and innovation in a mission. With about 9,400 employees and 25,000 students, KIT is one of the big institutions of research and higher education in natural sciences and engineering in Europe.

In Division V, Physics and Mathematics, the Department of Physics at KIT invites applications for a

Professorship (W3) in Experimental Astroparticle Physics

(succession of Prof. J. Blümer). The position is based at the Institute for Experimental Particle Physics (ETP) and holds, in addition, the directorship of the Institute for Nuclear Physics (IKP).

Both institutes play a leading role in large international experiments, like KATRIN and the Pierre Auger Observatory as well as at CERN and KEK. Further activities include contributions to IceCube and the search for Dark Matter. We expect an active development of research in experimental Astroparticle Physics and a leading participation in the Helmholtz programs **Matter and the Universe** and **Matter and Technology**.

We are seeking an outstanding scientist with background in one or more of the following areas: search for Dark Matter, high-energy astroparticle physics, and neutrino physics. The institutes provide excellent infrastructure with workshops, laboratories and clean rooms. Furthermore, the Grid Computing Centre Karlsruhe (GridKa) hosts extensive computing resources for data processing and analysis. The institutes are embedded in the KIT Centre for Elementary Particle and Astroparticle Physics (KCETA), with its Graduate School KSETA, which connects the experimental, theoretical, and technological activities surrounding the professorship.

You are also expected to take part in teaching activities of the Department of Physics at the undergraduate and graduate levels, and in service typical for a faculty member. Applicants should have obtained the degree of **Habilitation** or an equivalent scientific qualification, and are required to have experience in teaching. The appointed professor is expected to teach in German after a reasonable amount of time.

KIT is pursuing a gender equality policy. We would therefore particularly encourage qualified women to apply. If qualified, handicapped applicants will be preferred. The requirements for employment listed in § 47 Landeshochschulgesetz (LHG) apply.

Applications with the usual resume (including a curriculum vitae, a research plan, a summary of the teaching experience, and the five most important publications), should be sent by **October 2, 2017** to: **Dekan der KIT-Fakultät für Physik, Karlsruher Institut für Technologie (KIT), 76128 Karlsruhe, Germany**, preferably via e-mail to dekanat@physik.kit.edu. For questions related to research and the institutes please contact Prof. Th. Müller, e-mail: thomas.muller@kit.edu or Prof. G. Drexlin, e-mail: guido.drexlin@kit.edu.

Since 2010, the KIT has been certified as a family-friendly university.

KIT – The Research University in the Helmholtz Association



World Leaders in
Cryogen-free
Superconducting Magnets

Scientific Magnetics is a leading manufacturer of superconducting magnets and helium-free cryogenic systems, based in Abingdon, Oxfordshire. In line with our exciting expansion plans, we are hiring across a number of business-critical functions. To compliment and reinforce our existing team of highly experienced engineers, technicians and support staff, we would be interested in hearing from candidates to fulfil our

Senior Physicist/Magnet Engineer role

Reporting to the Technical Director

Position: Full Time

Key Responsibilities:

Modelling of magnetic (mainly superconducting) systems using industry standard tools including OPERA, COMSOL Multiphysics and other analytical tools.

Design and development of cryogenic and cryogen-free superconducting magnet systems.

Generation of line-up information for the drawing office; checking and approving of detailed drawings.

Generation of working instructions and procedures in accordance with the Company's ISO9001 Quality Assurance policy.

Project management of projects and parts of major projects.

Specifying and conducting tests in the workshop; recording and interpreting results in accordance with quality and health & safety policies.

Liaison with partners and suppliers in all parts of the world as required.

Generation of technical reports for internal use and external publication.

Fostering relationships and links with existing customers and suppliers, and with potential new customers in academia and industry.

Dealing with queries from customers and collaborators, supplying information in the relevant format in a concise and timely manner.

Keeping up to date with relevant technology and disseminating information within the Company.

Qualifications / Experience:

Degree qualified in physics or a physical science course, possibly to PhD level.

Expertise and knowledge of a subset of the following:

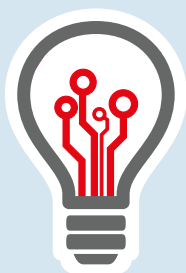
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www.scientificmagnetics.co.uk

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The jobs site for physics and engineering

Announcement of CERN's 2018 Beamline for Schools competition

CERN is pleased to announce the 5th edition of the Beamline for Schools competition. Once again, in 2018, a fully equipped beamline will be made available at CERN for high-school students from around the world. What better way to learn about physics?

As in previous years, two teams will be invited to CERN to run their proposed experiments. The competition is open to teams of at least 5 students aged 16 and up with at least one adult supervisor.

BL4S is a unique science competition that can be used by teachers to complement or extend the physics classes. Our experience shows that it triggers a high level of motivation among students. Please help us to spread the word.

The deadline for proposals is the 31 March 2018. The winners will be announced in June and are expected to come to CERN in September 2018. Short-listed teams are offered smaller prizes. All participants will receive a certificate.

Dive into the fascinating world of particle physics and register already for 2018: <http://beamline-for-schools.web.cern.ch/pre-registration-2018>



Join the adventure here: cern.ch/bl4s



Institute of Physics ASCR, v. v. i., Na Slovance 2, 182 21 Praha 8

info@eli-beams.eu | www.eli-beams.eu

The ELI (Extreme Light Infrastructure) Project is an integral part of the European plan to build the next generation of large user and research facilities. ELI-Beamlines, as a cutting edge facility, is currently being constructed in Prague, Czech Republic. ELI will provide for both fundamental and applied research sources (beamlines) of energetic photons and charged particles accelerated or generated in laser-driven plasma under extremely high intensities of electromagnetic fields.

The theory and simulation group wants to reinforce their activities in the field of macroscopic laser-plasma interaction and its simulation. This is of importance to pre-pulse physics for high- power laser-matter interaction as well as for inertial confinement fusion.

The work is supposed to prepare and accompany experiments planned at international high- intensity laser facilities and help to define the research program for ELI-Beamlines.

In our team we therefore have the following position available:

Junior scientist for macroscopic laser-plasma interaction

Job description:

- Macroscopic simulations of laser-plasma interaction are essential for a detailed understanding of the underlying physics on macroscopic spatial scales and temporal scales
- This requires the development of accurate models for transport processes of particles and photons, correct laser absorption models and accounting for possible backscattering.
- The work will require to develop these new models in collaboration with other groups locally and internationally and to incorporate them in numerical simulation tools.

Requirements:

- PhD in theory/simulation of hot plasmas
- Experience with simulation work and code development
- Good analytical skills
- Very good working knowledge of English
- Previous experience in laser-plasma interaction studies would be a plus
- Experience with one or more programming languages (C, C++, Fortran)

Job conditions:

- The opportunity to participate in this unique scientific project
- Career growth, professional education
- Competitive and motivating salary
- 5 weeks of holiday and other employee benefits

Applications, containing CV, cover letter, contacts of references, and any other material the candidate considers relevant, should be sent to Mrs. Jana Ženíšková, HR specialist (jana.zeniskova@eli-beams.eu, +420 - 601560322). Please include the following text in your cover letter, to allow us to process your personal details:

I agree that, according to the decree 101/2000 coll. (Czech Republic), my personal details sent to FZU AV CR, v.v.i., Na Slovance 2, 18221 Praha 8, Czech Republic can be used for the purpose of obtaining employment and management of database of employment candidates. This permission is given for the period of one year and can be at any time withdrawn by giving a notice in writing.



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in physics and related subjects**

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