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Accelerators | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association



PARTICLE PHYSICS.

DESY has openings for: DESY-Fellowships (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 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 DESY's particle physics research.

- Analysis and detector-upgrade in the LHC experiments ATLAS and CMS
- Preparation of the International Linear Collider ILC (accelerator and experiments)
- Cooperation in the Analysis Centre of the Helmholtz Alliance "Physics at the Terascale"
- Participation in experiments like 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.

Please submit your application including a resume and the usual documents (curriculum vitae, list of publications and copies of university degrees) to the DESY human resources department. Please arrange for three letters of reference to be sent before the application deadline to the DESY human resource department.

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.

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

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: EM001/2014

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

E-Mail: recruitment@desy.de

Deadline for applications: 31 March 2014

www.desy.de

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



Faculty positions at Inter-Institutional Centre for High Energy Physics, Madurai, India (Nodal Centre for India-based Neutrino Observatory)

Inter-Institutional Centre for High Energy Physics (IICHEP) is the Nodal Centre for the India-based Neutrino Observatory (INO). Located in the city of Madurai in south India, the IICHEP will be the nodal centre of the multi-institutional INO project, entrusted with building a large underground Laboratory, geared to take off soon. At present the IICHEP will be administered through the Tata Institute of Fundamental Research (TIFR), Mumbai. Once fully operational it is expected to become an autonomous research centre under Department of Atomic Energy, Govt. of India.

IICHEP expects to have faculty positions at the level of Reader in Pay Band-4 at its centre at Madurai soon. Selected scientists will be involved in the construction and operation of the neutrino detector (ICAL) that is coming up at the INO underground laboratory at Bodi West Hills, Tamil Nadu. They are also expected to participate in the analysis of data as well as in the R & D program for future detector development. Expertise related to particle detector development, associated electronics, data acquisition is desirable. Preference will be given to candidates having hardware and data analysis experience with large detector systems used in nuclear and particle physics. Positions are also available for phenomenologists with expertise in the area of neutrino physics and particle physics with experience in simulation and data analysis. In future, opportunities may exist to participate in other experiments related to dark matter detection, double beta decay etc that may come up at INO.

Applicant should have Ph.D. and 5 years of post-doctoral experience.

Exceptionally good candidate having less post-doctoral experience may be considered for Reader in Pay Band-3. Application along with CV, research interest as well as list of referees should be sent to projdir.ino@tifr.res.in as email attachment (preferred) or to Project Director, India-based Neutrino observatory, TIFR, Homi Bhabha Road, Mumbai 400005, India by mail.

"La Caixa – Severo Ochoa" predoctoral positions in Theoretical and Experimental Particle Physics, Astroparticle Physics, Cosmology and Instrumentation R&D at IFAE Barcelona.

The "Institut de Física d'Altes Energies" (IFAE) in Barcelona announces the opening of four predoctoral positions for outstanding young graduates interested in working towards a PhD thesis at IFAE. These positions are funded by the "La Caixa" Foundation under the Severo Ochoa Program for Scientific Excellence, a distinction recently awarded to IFAE.

The contracts will have a duration of four years (the typical time to prepare a PhD thesis at IFAE), and will enjoy competitive conditions, with a progressively increasing salary averaging 22.384 € per year.

Interested candidates with an excellent CV and willing to work in the areas of research of IFAE, namely, theoretical particle physics, experimental particle physics (ATLAS and T2K), astroparticle physics (MAGIC and CTA), observational cosmology (DES, PAU and Euclid) and instrumentation development (ATLAS upgrades and medical imaging), should fill an application form as described at:

<http://www.ifae.es/eng/work/open-positions.html>

and upload the requested information, which includes a cover letter, a CV, a one-page statement of interest, and the names and email addresses of two professors willing to provide reference letters.

The application deadline will be March 31, 2014. The review process will take place during April, and offers will be made in early May. In case of a positive evaluation, hiring will take place during September and October 2014.

General information about IFAE and its Severo Ochoa program is available at <http://www.ifae.es>.



UNIVERSITÉ DE GENÈVE

Post one:

FULL PROFESSOR, Associate professor or Assistant professor in THEORETICAL PHYSICS

RESPONSIBILITIES: We are looking for an outstanding condensed-matter theorist with a pronounced interest and proven expertise in quantum transport and correlated electron systems. He/she is capable of developing a broad and independent research line in theory, with the interest and ability to interact with experimentalists. She/he is expected to contribute to the excellent international scientific reputation of our Physics Section.

This is a full time tenured or tenure track (in the case of assistant professor) position. Duties include developing a research program at the highest international level, teaching at undergraduate and postgraduate level, and securing external funding. Moreover, the successful candidate will supervise master and doctoral thesis and will take up administrative and organizational duties at the department level.

REQUIREMENTS: PhD degree or equivalent.
Experience in research and teaching.
Publications in international top journals.

Applications including a CV, teaching and research statement and a complete list of publications must be submitted online before March 31st, 2014 at: <https://jobs.icams.unige.ch>. Complementary information may be obtained at the following e-mail address: scienceopenings@unige.ch.

Applications from women are particularly welcome.

Post two:

FULL PROFESSOR, Associate professor or Assistant professor in THEORETICAL PHYSICS

RESPONSIBILITIES: We are looking for an outstanding theoretical physicist with pronounced interest and expertise in applications of mathematical physics to condensed matter systems [examples are integrability and AdS/CMT]. The candidate is capable of developing a broad and independent line of research in theoretical physics with interest to interact with mathematicians. She/he is expected to contribute to the excellent international scientific reputation of our physics section.

This is a full time tenured position (or tenure track in the case of an assistant professor). Duties include developing a research program at the highest international level, teaching at undergraduate and postgraduate level, and securing external funding. Moreover, the successful candidate will supervise master and doctoral thesis and will take up administrative and organizational duties at the departmental level.

REQUIREMENTS: PhD degree or equivalent.
Experience in research and teaching.
Publications in international top journals.

Applications including CV, research and teaching statement and a complete list of publications must be submitted online before March 31st, 2014 at: <https://jobs.icams.unige.ch>. Complementary information may be obtained at the following e-mail address: scienceopenings@unige.ch.

Applications from women are particularly welcome.

Accelerators | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association

SENIOR SCIENTIST.

DESY, Hamburg location, is seeking:

Senior Scientist (f/m) for the development and operation of the PETRA III light source

DESY

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

Since spring 2009 PETRA has been operated as a high brilliant light source in the hard X-ray region with the world's smallest horizontal emittance of 1 nmrad. The 14 beamlines provide excellent and diverse experimental methods for about 2000 users per year. To meet the high demand for beam time PETRA III will be extended by another 10 beamlines in 2014. To maintain and enhance the high beam quality the operation of the accelerator must be continuously improved and plans for future developments have to be prepared and pursued. These developments include the possible conversion of PETRA into a diffraction-limited radiation source for which the appropriate preparatory work has to be done over the next few years.

The position

- Coordinate the operation of PETRA III
- Define short and long term strategic plans for the improvement and development of PETRA III
- Communicate the status of PETRA III within national and international committees

Requirements

- PhD in physics or engineering science
- Broad knowledge of accelerator physics
- Experience with the operation of large and complex accelerator facilities
- Very good communication and team skills
- Basic knowledge of German is advantageous

For further information please contact Dr. Reinhard Brinkmann; phone +49 40 8998-3197, e-mail: reinhard.brinkmann@desy.de.

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.

Please send your application quoting the reference code, also by e-mail, to:

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: EM206/2013

Notkestraße 85 | 22607 Hamburg | Germany

Phone: +49 40 8998-3392 | E-mail: recruitment@desy.de

Deadline for applications: 28th February 2014

www.desy.de

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



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Radiological Protection Engineers – Chapelcross (Dumfriesshire)

Circa – £39k-£61k, dependent on experience plus excellent benefits

CLEANING UP THE UK'S NUCLEAR LEGACY IS A CHALLENGE WORTHY OF YOUR EXPERTISE

An excellent opportunity has now arisen for two Radiological Protection Engineers, based at our Chapelcross site near Annan in Dumfriesshire (South West Scotland). Only 1.5 hours from Glasgow/Newcastle by road and excellent rail links from Carlisle, we are easily accessible. Near the Lake District, we are on the edge of some of the most spectacular countryside in the country.



Magnox Ltd are the management and operations contractor responsible for the decommissioning of nine nuclear sites, and are also responsible for the operation of one nuclear and one hydroelectric site on behalf of the Nuclear Decommissioning Authority (NDA). This means you will enjoy a unique opportunity to play a key role in protecting the UK environment for generations to come.

You will perform a key role within a busy multi-disciplined decommissioning project, providing advice to a broad spectrum of personnel on all areas of radiological protection. Substantial radiological hazards form a large part of the projects delivery challenge, you will play a significant role in the decision making of the projects' future path to address these challenges.

Your duties will include;

- Providing radiological protection advice in-line with company arrangements
- Engaging with the wider site departments to help ensure project delivery
- Provide technical support to current and future project strategy and implementation

You will also be a customer-focused individual, who can comply with the Health, Safety, Security, Environmental and Quality policies, procedures, work instructions and risk assessments. As part of the role you may be required to support other Magnox sites.

You will be qualified to at least degree level or hold an RPA certificate and have several years' experience as an operational health physicist/provision of radiological protection advice.

Along with a competitive salary, you will be also eligible to participate in our bonus group reward scheme. You will receive a generous holiday entitlement of 30 days plus Bank Holidays and the option to join our company pension plan.

For further information and to apply please visit
www.magnoxsites.co.uk/careers

Please return all completed application forms to
recruitment@magnoxsites.com FAO Clare Osborne by
14 March 2014.

In promoting equal opportunities, we welcome applicants from all sections of the community. We select people according to their abilities and our needs.



Thinking about the Future of Basic Science.

CAPP/IBS, KAIST has openings for: Research Fellows

The Institute for Basic Science of the Republic of Korea has recently established the Center for Axion and Precision Physics Research (CAPP) in the campus of Korea Advanced Institute of Science and Technology in Daejeon. The mission of CAPP is to launch a state of the art axion dark matter experiment in Korea, play a leading role in the proton electric dipole moment experiment, and participate in leading axion, Dark Matter, EDM, muon $g-2$ etc., experiments around the world, driven by the interests of individual scientists of CAPP. The center is seeking to hire well-qualified applicants at the level of Research Fellows with term and tenure track appointments. The term appointments are extendable up to five years. Experts in related fields and inquiring minds are welcome to apply; a Ph.D. in Particle or Nuclear Physics is required. Application of CAPP scientific staff for a professorship position in the Physics dept. of KAIST is encouraged even though it is not required. The University courses are taught in English; one course per semester is the regular teaching load.

To apply, send a detailed CV including a comprehensive narrative of previous research experience, and a statement with current research interests to **Yannis K. Semertzidis, CAPP Director**, at **CAPP@ibs.re.kr** by March 21, 2014 (Friday).

CAPP/IBS, KAIST is an equal opportunity employer, strongly encouraging well-qualified women to apply. Korean citizenship is not required of any scientific staff position and English is the common language spoken at the Center.

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Cluster of Excellence Precision Physics,
Fundamental Interactions and Structure of Matter

PRISMA



The Faculty of Physics, Mathematics, and Computer Science at the Johannes Gutenberg University of Mainz (JGU) and the PRISMA Cluster of Excellence invite applications for an appointment at the level of

**University Professor (m/f)
for Mathematical Physics
(salary class W 3; BBesG)**

starting from winter semester 2014/15.

The Cluster of Excellence PRISMA ("Precision Physics, Fundamental Interactions and Structure of Matter") is focussed on the key questions concerning the fundamental constituents of matter and their implications for the physics of the Universe. PRISMA is supported by several high-profile research groups in the areas of particle, astro-particle, hadron and atomic physics at the University of Mainz and the associated Helmholtz Institute Mainz (HIM).

We seek to appoint an internationally outstanding researcher in the field of mathematical physics, whose main focus is in the area of string theory or formal aspects of quantum field theories (for example, mathematical properties of scattering amplitudes, AdS/CFT correspondence or supersymmetric Yang-Mills theories). The successful candidate is expected to complement and extend the existing research topics in theoretical high-energy physics in Mainz and to collaborate with other theoretical groups within the Cluster of Excellence PRISMA.

The appointment requires participation in teaching activities at the Institute of Physics. In particular, the entire field of theoretical physics should be covered. We expect that candidates have the necessary educational commitment. The state of Rhineland-Palatinate and the Johannes Gutenberg University Mainz support a concept of intensive tutoring and expects a high rate of presence at the university.

Applicants must meet the general requirements according to public services law and the Higher Education Act of Rhineland-Palatinate. In addition to a PhD in physics a first rate research record must be proven.

The Johannes Gutenberg University Mainz is committed to increasing the proportion of women in the scientific field and therefore encourages women to apply.

Disabled persons with suitable qualifications will be considered preferentially.

Please send your written application, including all documents necessary to establish that the employment requirements are met (CV, grades and certificates, statement of previous teaching activities and publication list) and up to three key publications, in electronic form only. Please upload a single PDF file at <http://www.phmi.uni-mainz.de/stellen> by 31 March 2014. The application should be addressed to

**Dean of Faculty 08 – Physics, Mathematics and Computer Science
Johannes Gutenberg University Mainz
Staudingerweg 7
55128 Mainz
(dekanat@phmi.uni-mainz.de)**

The Faculty of Physics, Mathematics, and Computer Science at the Johannes Gutenberg University of Mainz (JGU) and the PRISMA Cluster of Excellence invite applications for an appointment at the level of

**University Professor (m/f)
for Experimental Atomic Physics
(salary class W 2; BBesG)**

starting from winter semester 2014/15 and limited to six years. Following the temporary employment, a permanent faculty appointment is possible.

PRISMA ("Precision Physics, Fundamental Interactions and Structure of Matter") is focussed on the key questions concerning the fundamental constituents of matter and their implications for the physics of the Universe. PRISMA is supported by several high-profile research groups in the areas of particle, astro-particle, hadron and atomic physics at the University of Mainz and the associated Helmholtz Institute Mainz (HIM).

We seek to appoint an outstanding researcher in the field of experimental quantum physics with ions and/or atoms. Participation in the scientific activities of the QUANTUM group and the Cluster of Excellence PRISMA is expected. Possible research topics include the simulation of quantum systems, precision measurements of and with quantum systems for fundamental physics and quantum sensors, as well as quantum metrology. An active role in the conception of externally funded and/or collaborative projects is expected.

The appointment requires participation in teaching activities at the Institute of Physics. We expect that candidates have the necessary educational commitment. The state of Rhineland-Palatinate and the Johannes Gutenberg University Mainz support a concept of intensive tutoring and expects a high rate of presence at the university.

Applicants must meet the general requirements according to public services law and the Higher Education Act of Rhineland-Palatinate. In addition to a PhD in physics a first rate research record must be proven.

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**Dean of Faculty 08 – Physics, Mathematics and Computer Science
Johannes Gutenberg University Mainz
Staudingerweg 7
55128 Mainz
(dekanat@phmi.uni-mainz.de)**