

RECRUITMENT

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RUPRECHT-KARLS-
UNIVERSITÄT
HEIDELBERG



The Department of Physics and Astronomy of the Ruprecht-Karls-University in Heidelberg invites applications to fill - at the earliest possible date - the faculty position of a

Professor (W3) in Experimental Physics

The successful candidate is expected to play a leading role in future experiments to uncover fundamental particle physics mechanisms in the early universe, in particular to develop an improved understanding of interactions and particle properties driving structure formation. The position will complement existing Heidelberg groups performing research at the Large-Hadron-Collider (LHC) and in astrophysics to provide an alternative experimental access to the scientific quests described. A good integration in the local Heidelberg research infrastructure, the Graduate School for Fundamental Physics and a close cooperation with groups at the Max-Planck-Institute for Nuclear Physics will be essential. The vacant position corresponds to a full professorship and is expected to play a key role in shaping the future development of the field. Possible areas of research include: neutrino physics, dark matter searches and space base particle physics.

The successful candidate is expected to demonstrate a commitment to teaching in physics at both the undergraduate and graduate level and to participate in the self-administration of the University. Applicants for this W3-professorship are expected to have a Ph.D in physics and an excellent research record.

Prerequisites for application are a university degree and (in accordance with Article 47, paragraph 2 of the Higher Education Law of the State of Baden-Württemberg), a Habilitation, a successfully evaluated junior professorship or equivalent qualification.

The Ruprecht-Karls University in Heidelberg seeks to increase the proportion of female faculty and, for this reason, especially welcomes applications from women. Handicapped persons with the same qualifications will be given preference.

Qualified candidates are invited to submit their application until **30th September 2010** with the usual documents and a research plan to the **Dean, Department of Physics and Astronomy, Albert-Ueberle-Str. 3-5, D-69120 Heidelberg, Germany.**



THE UNIVERSITY OF CHICAGO

The Department of Physics and the Enrico Fermi Institute at the University of Chicago invite applications for two tenure-track positions: one in experimental elementary particle physics with an emphasis on neutrino and non-accelerator physics, and one in experimental particle astrophysics and cosmology. The appointments will start in the Fall of 2011.

Successful candidates must have a doctoral degree in physics or a related field, a record of excellence in research, and are expected to contribute effectively to the Department's undergraduate and graduate teaching programs while engaging in forefront research. The appointments are expected to be at the level of Assistant Professor; however, an Associate or Full Professor appointment is possible for exceptionally well qualified candidates.

Applicants must apply online at The University of Chicago academic jobs website, <http://tinyurl.com/2011EFI-search> and upload a cover letter, curriculum vitae with a list of publications, and a brief research statement. The cover letter should be addressed to either Professor Ed Blucher, Chair, Experimental Elementary Particle Physics Search Committee, or to Professor Bruce Winstein, Chair, Experimental Particle Astrophysics Search Committee, depending on the discipline of interest. In addition, three reference letters will be required. (Referral letter submission information will be provided during the application process.)

Review of applications will start in the fall of 2010 and will continue until the positions are filled. To ensure full consideration, applications and recommendation letters should be received no later than November 1, 2010.

The University of Chicago is an Affirmative Action / Equal Opportunity Employer.

Jefferson Lab

Thomas Jefferson National Accelerator

is a U.S. Department of Energy, Office of Science laboratory that has a central and unique role in the field of nuclear physics, both in the U.S. and worldwide. Jefferson Lab's present and future program is as a world leader in hadronic physics and superconducting accelerator technologies. The primary nuclear physics facility is the Continuous Electron Beam Accelerator Facility currently operating at 6 GeV and being upgraded to 12 GeV. The laboratory has an international user community numbering approximately 1,300 physicists. Jefferson Lab is currently seeking outstanding individuals to fill three senior leadership positions.

Associate Director for Experimental Nuclear Physics

The Associate Director for Experimental Nuclear Physics is responsible for the execution of the experimental nuclear physics program. Responsibilities include the management of the Experimental Physics Division of approximately 140 staff, including 85 scientists and engineers. The division is responsible for the experimental nuclear physics program including the management of the experimental operations schedule for the program

in conjunction with the accelerator division and matched to the available resources.

The Associate Director participates in strategic planning, policy formation, budgeting, and science initiatives. The Associate Director represents the laboratory with government agencies, the international physics community, other laboratories, universities, as well as stakeholders.

The successful candidate will be a distinguished scientist with a proven record of physics research leadership and publication in nuclear physics or a related field. The candidate will have demonstrated leadership, communication skills, ability to manage resources, personnel, and technical knowledge relevant to accelerator-based experimental nuclear physics. A Ph.D. and substantial history of relevant experience in Nuclear Physics or related field, including increasing responsibility in nuclear physics research projects are required. The candidate will also have proven negotiation and interpersonal skills to develop and maintain excellent relations with internal and external stakeholders.

Deputy Associate Director Experimental Nuclear Physics

The Deputy Associate Director participates in all aspects of the management of the Experimental Nuclear Physics Division and reports to the Associate Director. The Physics Division has primary responsibility for the operation and continuous upgrading of the Jefferson Lab nuclear physics experimental



The Paul Scherrer Institute is with 1300 employees the largest research centre for the natural and engineering sciences in Switzerland and a worldwide leading user laboratory. Its research activities are concentrated on the three main topics structure of matter, energy and environmental research as well as human health.

The activities of the PSI Laboratory for Particle Physics focus on projects in theoretical physics, in high energy physics within the CMS experiment at the LHC, and in low energy precision physics at PSI's own world-leading facilities for pions, muons and ultracold neutrons, see ltp.web.psi.ch.

We invite applications for the newly established

Postdoctoral Fellowship for Excellence in Particle Physics

The named postdoc position is accompanied by a competitive salary and open to both experimental and theoretical physicists. Candidates are selected based on the strengths of their academic and research accomplishments and plans. Research activities proposed by the candidates should be in line with the program of the Laboratory for Particle Physics. Applicants must hold a doctoral or PhD degree in physics. You are welcome to contact the group leaders of the research groups to discuss your ideas prior to application. The successful candidate will join one of the laboratory's groups. In the future, this prestigious position will be advertised and filled every two years

For further information please contact: Prof Dr Klaus Kirch, phone +41 56 310 23 78, klaus.kirch@psi.ch
Please submit your application at the latest until October 30th, 2010 (including CV, list of publications, statement of research interests and addresses of at least three referees) quoting the ref. code by e-mail to thomas.erb@psi.ch or to Paul Scherrer Institut, Human Resources, ref. code 3200, Thomas Erb, 5232 Villigen PSI, Switzerland.
www.psi.ch



The University of Potsdam, institute of physics and astronomy in a joint appointment with the **Deutsche Elektronen-Synchrotron DESY (post Zeuthen)** invites applications for the position as

Head of DESY site Zeuthen

in conjunction with a

Full Professorship (W3) for Astroparticle Physics/Particle Physics

The position is preferably to be filled at the earliest opportunity.

The Deutsche Elektronen-Synchrotron DESY with its posts in Hamburg and Zeuthen (Brandenburg) is a world-leading research institution that manages the development, construction and operation of particle accelerators to study the fundamental structure and physical properties of matter. Research at DESY includes particle and astroparticle physics and studies of atoms, molecules and condensed matter using the latest generation of photon sources including free electron lasers in the X-ray band. DESY is member of the German research network Hermann von Helmholtz-Gemeinschaft Deutscher Forschungszentren. DESY wants to extend its research activities in Zeuthen in the fields astroparticle physics (including highenergy photons and neutrinos) and accelerator physics. To fill the above advertised position as head of DESY site Zeuthen DESY and the University of Potsdam are searching for an outstanding, internationally renowned scientist, preferably in the field astroparticle physics. Ideally, the candidate has several years of experience as leader of large research projects and science teams and has excellent knowledge of the international research environment in this field. As head of DESY site Zeuthen the candidate reports to the board of directors of DESY.

At the University of Potsdam and its physics and astronomy department there are research groups in the fields of stellar and extragalactic astrophysics and theoretical astroparticle physics. There is a lively interaction between the University and the Astrophysical Institute Potsdam (AIP), the Max-Planck-Institute for gravitational physics (Albert-Einstein-Institute, AEI), and DESY site Zeuthen. With this common call the cooperation between DESY site Zeuthen and the University of Potsdam shall be further strengthened. With the position as professor at the University of Potsdam the candidate has a teaching duty in the field astroparticle physics/particle physics of two lessons per week (2 SWS).

Prerequisites for the application are a doctoral degree and a record of research equivalent to the German "Habilitation". Scientific qualifications achieved in the private sector, outside Germany or as Junior professor will also be considered (§ 39 BbgHG).

Appointment will be made according to the laws of Brandenburg (Brandenburgisches Hochschulgesetz - BbgHG § 38). According to state law (§ 41 Abs. 1 BbgHG) the contract will be limited, in case it is the first appointment of the successful applicant as university professor, with the possibility of tenure after 2 years. Exceptions are possible, in particular if outstanding candidates from abroad or external to the university system cannot otherwise be acquired. In case of successful tenure review, there is no further appointment procedure.

Potsdam University and DESY are equal opportunity employers.

Please send applications until **3rd of September 2010** to **Potsdam University, Office of the President, Am Neuen Palais 10, 14469 Potsdam, Germany.**

facilities installed in Halls A, B, C, and D. The Deputy also serves as the Division Safety Officer and manages to oversee the Physics Division EH&S program.

The Deputy Associate Director provides support for the infrastructure necessary for assuring a user-friendly atmosphere, serves as a member of the Technical Advisory and Scheduling Committees, and advises the Associate Director on short-range experimental priorities. In particular, the Deputy has primary responsibility for overseeing/managing the details of the beam time schedule consistent with the broad directions defined by the Scheduling Committees.

The successful candidate will be an internationally recognized scientist in nuclear physics or a related field. The position requires a Ph.D. and significant relevant experience in Nuclear Physics or related field, and a demonstrated track record of resource and technical management or significant projects in design, construction, commissioning and/ or operation.

Hall A Group Leader

The Hall A Group Leader provides overall management of the physics research group for the hall. This includes leading the development of the research program through collaboration with users, staff, and advisory committee. The Hall leader oversees the staging and execution of the

scientific experiments. Additionally, the Hall Leader is responsible for the provision of appropriate experimental equipment for the balance of operations at 6 GeV and with special emphasis on the 12 GeV era, which will begin in 2013. The responsibilities also include management of all Hall scientific, post doc, engineering and technical staff, budgeting, planning and resource allocation.

The successful candidate will be an internationally recognized expert in the forefront of nuclear/ particle physics. A record of scientific excellence as demonstrated by extensive publication in nuclear/ particle physics is required. A Ph.D. in Experimental Nuclear or Particle Physics or the equivalent combination of education, experience, and specific training is required.

Interested candidates should submit a CV, publication list and letters of reference.

More information or to apply: <http://www.jlab-jobs.com/>

TJNAF is an Equal Opportunity/ Affirmative Action Employer.



Max-Planck-Institut für Physik

(Werner-Heisenberg-Institut)



The Max Planck Institute for Physics does fundamental research in particle and astroparticle physics from both an experimental and a theoretical perspective.

We invite applications for a

Postdoctoral position in the GeDet group

focussing on the development of germanium detectors for future large scale experiments. A possibility to participate in the GERDA experiment located at the Gran Sasso National Laboratory exists.

The main activity of the GeDet group is the detailed investigation of the characteristics of segmented n-type detectors. The development of new technologies for system integration is foreseen within studies evaluating the possibilities for future large scale germanium detectors.

The GERDA experiment is designed to search for the neutrinoless double beta-decay of ^{76}Ge . A participation in the analysis of first data is possible.

Formal requirements for this position are a PhD in experimental physics and experience with low background physics or semiconductor devices. The successful candidate will actively take part in the development and evaluation of germanium detectors. The evaluation includes detector modelling and the analysis of data obtained with existing detectors. He/she will take responsibility in adjusting and operating a test facility and play an important role in evaluating the prospects of future large scale experiments.

Salary and benefits are according to 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.

Further information can be obtained from Dr. I. Abt (E-Mail: isa@mppmu.mpg.de) or Dr. B. Majorovits (E-mail: bela@mpp.mpg.de). Interested applicants should address their application to:

Max Planck Institute for Physics
Ms. F. Happel
Föhringer Ring 6, D-80805 München
E-mail: happel@mpp.mpg.de



MAX-PLANCK-GESELLSCHAFT

It should include curriculum vitae, list of publications and a statement of research interests. The applicant should also arrange for three letters of recommendation to be sent directly to the MPI. The deadline is October 31, 2010 (applications arriving later will only be considered as long as the position is not yet filled).

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Postdoctoral Research Assistant: Grid Computing for Landslide Modelling

£29,853 - £33,600

This project will establish resource provisioning and data mining for landslide modelling for use in risk reduction. It will couple Grid software, developed for the LHC, with established software in the field of slope hydrology and geotechnics.

You will develop the current proof of principle system. The new system will allow use of large scale computing resources with secure storage and transparent access to data. You will have experience of the Python scripting language, as well as experience of Grid or Cloud computing. You will have good knowledge of metadata management and proven record of delivering sustainable software.

The project will be carried out as a partnership between Particle Physicists in the Department of Physics and academics within the School of Geographical Sciences. This is a full-time post offered on a fixed term contract for two years.

For informal enquiries please contact Professor N.H Brook on (0117) 954 6877 or e-mail: n.brook@bristol.ac.uk. Further details and application form can be found at www.bristol.ac.uk/jobs. Alternatively you can e-mail recruitment@bristol.ac.uk or telephone (0117) 954 6947, quoting reference number 15582.

The closing date for applications is 9.00am, Tuesday 24 August 2010.



EXCELLENCE THROUGH DIVERSITY



POSTDOCTORAL POSITION

High Energy Gamma-Ray Astronomy
and Particle Astrophysics

University of California, Los Angeles

The University of California Los Angeles (UCLA) invites applications for a Postdoctoral research position in high energy gamma-ray astronomy to strengthen the experimental astroparticle physics group. UCLA participates in forefront research in the areas of high-energy gamma-ray astronomy, ultra-high energy cosmic rays and neutrinos, and dark matter detection. The successful candidate will be expected to become involved in the design and prototyping of the future ground-based gamma-ray observatory CTA/AGIS and also to take part in the data analysis and ongoing operation of VERITAS.

The UCLA high energy gamma-ray astrophysics group has been actively involved in the world-wide effort to develop the next generation array of imaging atmospheric Cherenkov telescopes known as the Cherenkov Telescope Array (CTA) and formerly known in US as the Advanced Gamma Ray Imaging System (AGIS). The group's efforts are focused on the design and prototyping of the optical system for a novel Schwarzschild-Couder telescope as well as on simulation studies of the CTA performance. The group also participates in operation of Very Energetic Radiation Imaging Telescope Array System (VERITAS <http://www.astro.ucla.edu/~veritas/>) and conducts analysis and research utilizing data from VERITAS and Fermi Gamma-ray Space Telescope.

We encourage candidates with an experimental background in high energy particle physics, astrophysics, or an observational background in astronomy to apply for the position. A Ph.D., or equivalent degree, in physics or astronomy is required. Applicants should send a CV and arrange for three letters of recommendation to be sent to:

Prof. Vladimir Vassiliev
Department of Physics and Astronomy
University of California
Los Angeles, CA 90095-1547

The deadline for receipt of applications is November 1st, 2010. Screening of candidates will begin upon receipt of completed applications and will continue until the position is filled.

For inquiries please contact Prof. Vassiliev at vv@astro.ucla.edu.

The European XFEL will provide X-rays of unique quality for studies in physics, chemistry, life sciences, materials research and others. Located in Hamburg and Schleswig-Holstein, Germany, it will comprise scientific instruments for a wide range of experimental techniques. Construction of the European XFEL is underway, its commissioning is scheduled for 2014. The European XFEL GmbH is a multi-national non-profit company with DESY as the German shareholder. We are looking for a

Scientist for diagnostics of X-rays (f/m)

The position

- design and construct devices for the diagnostics of X-ray photon pulses, and verify their functionality by experiments with prototypes
- perform related research in collaborations at synchrotron and FEL facilities, such as photoionization spectrometry for online monitoring or photon-based long-undulator commissioning using an X-ray monochromator
- support simulation activities to determine the spatial and spectral distribution of the X-ray beam
- interface with scientists and engineers in related work packages like undulator systems and X-ray optics

Requirements

- PhD in physics or equivalent qualification and experience in the development and use of X-ray instrumentation
- ideally background in characterization of X-rays and ultrafast processes
- good communication skills and ability to work in an international team of physicists and engineers

For additional information please contact jan.gruenert@xfel.eu

Application: Please apply online via www.xfel.eu (**reference no. S-030**) and provide a motivating cover letter and a CV in English including a list of publications as well as at least two references.

Duration: This appointment is initially limited to 3 years.

Salary and benefits are similar to those of public service organizations in Germany. Handicapped persons will be given preference to other equally qualified applicants. The European XFEL GmbH is an equal opportunity and affirmative action employer and encourages applications from women. English is working language, knowledge of German is considered an asset.

The European XFEL GmbH intends to achieve a widely international staff. Non-German candidates hired from abroad receive an international allowance.

■ ■ ■ Deadline for application: 15 September 2010

European XFEL GmbH | Albert-Einstein-Ring 19 | 22761 Hamburg | Germany
Mailing address: Notkestr. 85 | 22607 Hamburg | Germany

www.xfel.eu

Facility for Antiproton and Ion Research in Europe

The Facility for Antiproton and Ion Research (FAIR) is a new state-of-the-art accelerator facility, which will be built in international cooperation with various partner countries from Europe and overseas on the premises of the GSI Helmholtzzentrum für Schwerionenforschung GmbH near Darmstadt, Germany. FAIR builds on the experience and technological developments already made at the existing GSI facility and other institutes, and it incorporates new technological concepts and related applied research in the fields of structure of matter, especially of hadrons, nuclear, atomic and plasma physics. A system of storage and cooling rings for effective beam cooling and beam preparation at high and low energies and various experimental halls will be connected to the FAIR accelerator. The GSI accelerators – together with the planned proton-linac – will serve as injector for the new facility.

Construction of the new facility with a total investment of € 1 billion will be carried out under the leadership of a limited liability company (FAIR GmbH, in the course of formation) in close collaboration with GSI.

FAIR GmbH is an organisation formed on the basis of an intergovernmental convention of various partner states from Europe and overseas. Its role is to establish, provide, maintain and develop outstanding accelerator infrastructures and experimental facilities for scientific research and development with antiprotons and ions.

FAIR GmbH is now inviting qualified candidates to apply for the following key positions:

2 Subproject Leaders (m/f) - Building Construction and Civil Engineering Underground - Reference no. 9150-10.49

The Subproject Leaders report to the Head of Site & Buildings. They are responsible for the organisation and coordination of the respective subprojects to ensure a successful completion of the civil construction of the buildings for the FAIR facility.

2 In-Kind Coordination Assistants (m/f) Reference no. 9150-10.50

The In-Kind Coordination Assistants help the Group Leader In-Kind Coordination with tasks related to in-kind contributions, including the allocation of in-kind contributions to Shareholders and attributed values and the monitoring of the scheduled delivery dates and milestones.

Third Party Funding Officer (m/f) Reference no. 9150-10.51

The Third Party Funding Officer reports to the Administrative Director and gives advice to the Management on strategic involvement in projects funded by the EU and other third parties.

2 Accelerator Physicists / Technical Follow-up (m/f) Reference no. 9150-10.52

The holders of the positions report to the Group Leader Technical Follow-up in matters of the construction and technical realisation of the FAIR accelerators.

The official languages of FAIR GmbH are German and English. Therefore candidates must be able to work effectively in one of these languages and have a high level of knowledge of, and fluency in, the other.

Candidates may perform their work and duties on the basis of employment with FAIR GmbH, or secondment, assignment or provision of personnel to FAIR GmbH, as the case may be.

Competences and salary are adequate to importance and requirements of the position and conform to the GSI's salary scale equivalent to that for public employees. In addition to basic salary, FAIR GmbH offers attractive benefits and professional development in an international work environment.

Closing date is **2010-09-03**.

For further particulars and job description see www.gsi.de/informationen/internal/vw/pa/jobs.html and www.gsi.de/fair/jobs/index.html.

Qualified women are particularly encouraged to apply.

Handicapped persons will be preferentially considered when equally qualified.

Applications in English or German attaching curriculum vitae and covering letter quoting reference no. should be sent to

GSI Helmholtzzentrum für Schwerionenforschung GmbH
Abteilung Personal und Sozialwesen
Planckstraße 1 • 64291 Darmstadt
or online to: S.Maurer@gsi.de