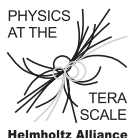


RECRUITMENT

For advertising enquiries, contact *CERN Courier* recruitment/classified, IOP Publishing, Dirac House, Temple Back, Bristol BS1 6BE, UK.
Tel +44 (0)117 930 1264 Fax +44 (0)117 930 1178 E-mail sales@cerncourier.com
Please contact us for information about rates, colour options, publication dates and deadlines.



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



ATLAS UPGRADE.

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

DESY

DESY is one of the world's leading centres for the investigation of the structure of matter. DESY develops, runs and uses accelerators and detectors for photon science and particle physics.

The DESY ATLAS group contributes to the ATLAS experiment at the LHC. The group is involved in physics analysis, triggering, computing and the detector upgrade for the SLHC. The group is planning to build one of the silicon tracker endcaps for the upgraded detector.

The position

For our Zeuthen site we are looking for a physicist to take a leading role in the R&D for the Silicon tracker upgrade in ATLAS and the preparation of the detector assembly. The work should be done in close collaboration with members of the Helmholtz Alliance "Physics at the Terascale" and with other international partners.

Requirements

- PhD in physics
- At least two years of postdoctoral experience in a large particle physics experiment
- Experience in construction or operation of silicon detectors

For further information please contact Klaus.Moenig@desy.de. Interested candidates are encouraged to send their complete application package (including CV, three letters of reference and a statement of research interests).

The position is limited initially to 3 years and can become permanent in case of positive evaluation. Salary and benefits are commensurate with those of public service organisations in Germany. 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: 105/2010
Notkestraße 85 | 22607 Hamburg | Germany
Phone: +49 40 8998-3392 | E-mail: personal.abteilung@desy.de
Deadline for applications: 21 November 2010
www.desy.de

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



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

ACCELERATOR PHYSICS.

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

DESY

DESY is one of the world's leading centres for the investigation of the structure of matter. DESY develops, runs and uses accelerators and detectors for photon science and particle physics.

The Machine Physics group (MPY) deals with all beam physics aspects of DESY accelerators and participates in their operation.

The position

- Development of operational techniques and automated machine operation, including collective electron beam effects, for the European XFEL
- Performing tests and studies at the superconducting DESY FEL driver linac, FLASH
- Support of the FLASH operation crew with regard to beam dynamics questions
- Participation in the commissioning planning of the European XFEL

Requirements

- PhD in physics, accelerator physics desirable
- Good communication skills and self-starting ability
- Excellent programming skills
- Ability to solve beam dynamics problems relevant for the development and operation of DESY accelerators

For further information please contact Dr. Torsten Limberg, +49 40 8998-3998, torsten.limberg@desy.de.

The position is limited to 3 years.

Salary and benefits are commensurate with those of public service organisations in Germany. 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 an English-speaking 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: 119/2010
Notkestraße 85 | 22607 Hamburg | Germany
Phone: +49 40 8998-3392 | E-mail: personal.abteilung@desy.de
Deadline for applications: 21 November 2010
www.desy.de

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



MONTE CARLO.

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

DESY

DESY is one of the world's leading centres for the investigation of the structure of matter. DESY develops, runs and uses accelerators and detectors for photon science and particle physics.

The position

For the DESY Zeuthen site we are looking for a physicist to take a leading role in the Analysis Centre of the Helmholtz Alliance "Physics at the Terascale" with focus on Monte Carlo developments for detector simulations. This includes the support of the Alliance members and contributions to schools and other educational projects. The successful candidate is supposed to work for about 50% of his or her time on related subjects in one of the DESY LHC groups.

Requirements

- PhD in physics
- At least two years of postdoctoral experience
- Experience in development of Monte Carlo tools for physics and detectors
- Experience in a particle physics experiment is welcome

For further information please contact Klaus.Moenig@desy.de or Sabine.Riemann@desy.de. Interested candidates are encouraged to send their complete application package (including CV, three letters of reference and a statement of research interests).

The position is limited initially to 3 years and can become permanent in case of positive evaluation. Salary and benefits are commensurate with those of public service organisations in Germany. 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: 106/2010
Notkestraße 85 | 22607 Hamburg | Germany
Phone: +49 40 8998-3392 | E-mail: personal.abteilung@desy.de
Deadline for applications: 21 November 2010
www.desy.de

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



The Department of Physics at the Georg-August-Universität Göttingen
invites applications for

**a W1-Helmholtz-Juniorprofessorship (salary scale W1 BbesO,
initially temporary appointment) with Tenure Track-Option
(salary scale W2 BbesO)**

in the specific area of

Theoretical Physics,

in particular High Energy-Collider-Particle Physics and Phenomenology

at the earliest possibility of availability.

The appointment into civil service will be initially for a period of three years with a possible extension by another three years, provided positive evaluation. After a positive evaluation of the entire phase of junior professor (tenure track), an indefinite appointment as university professor (salary scale W2 BbesO) is foreseen.

The successful applicant is expected to do research in the fields of

- Phenomenology of elementary particles and
- Physics at the Terascale.

The objectives of research are to supplement the current and future range of research topics of the Experimental Particle Physics group in the Department of Physics in the field of elementary particle physics at the Terascale (physics of the top quark, heavy gauge bosons, search for Higgs bosons, and b-physics at LHC and ILC) and be closely integrated into the Helmholtz Alliance on "Physics at the Terascale". The successful candidate is expected to take part in teaching the subject of theoretical physics (Bachelors' and Masters' courses) as well as the specialization subject of particle physics. Active participation in committees of academic self administration is expected.

Preconditions for appointments are laid down in § 30 of the Law on Higher Education of Lower Saxony. The Public Law Foundation Göttingen University holds the right of appointments. In case the completion of the doctorate was preceded or followed by employment as an academic assistant or collaborator, the period of doctorate and the period of employment together should not exceed six years. The Tenure-Track option can only be considered for applicants with scientific activities of at least two years after their PhD outside the University of Göttingen. Further information on the junior professorship and the application process can be found at <http://physik.uni-goettingen.de>.

We explicitly welcome applications from abroad. Disabled persons with corresponding aptitude for the position will be favoured. The University strives to increase its proportion of female staff and expressly encourages qualified women to apply.

Under certain circumstances part-time employment is possible.

Applications, including CV, a description of your teaching and research track record, a list of publications and, in particular, a research proposal are requested by 08.November 2010 electronically via the link http://physik2.uni-goettingen.de/juniorprofessor/Helmholtz_JP_Ausschreibung_goettingen_englisch.html

Postdoctoral Fellow

Belle and Belle II

The experimental particle physics group invites applications for a Postdoctoral Fellow position with the Belle and Belle II experiments. We seek a recent Ph.D. physicist to join us in development and construction of the "Imaging Time-of-Propagation" (iTOP) hadron ID device for Belle II as well as exploitation of Belle's tremendous data sample in the Upsilon energy region, especially in B_s studies at the $Y(5S)$.

Details on applying may be found at

<http://homepages.uc.edu/physics/facultyStaff/jobs.html>.

We will begin reviewing applications immediately and continue until the position is filled.

The University of Cincinnati is an equal opportunity/affirmative action employer. Women, people of color, people with disabilities and veterans are encouraged to apply.

Fresh jobs straight to your in-box

Sign up to the jobs
by e-mail alert from
brightrecruits.

brightrecruits.com



LEON M. LEDERMAN Postdoctoral FELLOWSHIP

The Fermi National Accelerator Laboratory (Fermilab) invites applications for the Lederman Postdoctoral Fellowship in experimental particle physics. The Lederman Fellow will work within the broad program of experimental research at Fermilab which includes research at the Tevatron and the LHC, neutrino physics, particle astrophysics, and experiments at the Intensity Frontier. In recognition of Leon Lederman's outstanding career in research and his commitment to the teaching of physics, we are looking for candidates who have demonstrated exceptional ability in research and who also wish to participate in physics outreach for a fraction of their time.

The Lederman Fellowship is a three-year appointment with a possible extension. Candidates should have obtained a Ph.D. in experimental particle physics, astrophysics, or a closely related field, after November 1, 2009, or should expect to obtain a Ph.D. in the same fields by June 2011.

Applications including a curriculum vitae, a description of prior research, a statement of research interests, and details of experience and interest in outreach, should be sent to LMLFAPP@fnal.gov. Applicants should also arrange for three or four references to be sent to the same address. Applications and their references should be received by December 20, 2010.



Fermilab is an Equal Opportunity Employer M/F/D/V



**The Department of Physics at the
University of Wisconsin – Madison
seeks to fill a faculty position beginning August 2011.**

**We are targeting candidates in experimental neutrino physics
at the Assistant Professor level. Ph.D and post-doctoral
experience required prior to start of appointment.**

Applications must be submitted by
December 31, 2010 through the web site:
<http://www.physics.wisc.edu/apply/fac-search-2010/>.

The material submitted should provide evidence of
teaching skills and the ability to carry out an
independent research program.

*The University of Wisconsin – Madison is an equal opportunity/
affirmative action employer, and especially encourages women
and underrepresented minorities to apply.*

*Unless confidentiality is requested in writing, information
regarding the applicants must be released upon request. Finalists
cannot be guaranteed confidentiality. A criminal background
check may be required prior to employment.*

RUPRECHT-KARLS-
UNIVERSITÄT
HEIDELBERG



The **Heidelberg Graduate School of Fundamental Physics (HGSFP)** at the Department of Physics and Astronomy at Heidelberg University, a school of the German Excellence Initiative, invites applications for

Doctoral Fellowships

in its core areas of modern fundamental physics: (a) Fundamental Interactions and Cosmology, (b) Astronomy and Cosmic Physics and (c) Quantum Dynamics and Complex Quantum Systems. Thesis research topics cover areas such as experimental and theoretical astrophysics, cosmology, accelerator based particle physics, precision measurements in physics, study of quantum systems – many body as well as small systems, low as well as high temperature physics, atomic, molecular and optical physics, mathematical physics and string theory. The HGSFP combines doctoral projects at the forefront of international research in the areas mentioned above with a rich and thorough teaching programme. Further information can be found on the School's web site: **<http://www.fundamental-physics.uni-hd.de>**.

The branch Astronomy & Cosmic Physics is the International Max Planck Research School (IMPRS) for Astronomy and Cosmic Physics at the University of Heidelberg (**<http://www.mpia.de/imprs-hd>**). Students accepted into the Graduate School will automatically be members of the IMPRS-HD and conversely. Membership in the IMPRS for Quantum Dynamics in Physics, Chemistry and Biology (**<http://www.mpi-hd.mpg.de/imprs-qd>**) as well as the IMPRS for Precision Tests of Fundamental Symmetries in Particle Physics, Nuclear Physics, Atomic Physics and Astroparticle Physics at the University of Heidelberg (**www.mpi-hd.mpg.de/imprs-ptfs**) is envisaged if appropriate.

Highly qualified and motivated national and international students are invited to apply. Applicants should hold a Master of Science or equivalent degree in physics. At equal level of qualification, preference will be given to disabled candidates. Female students are particularly encouraged to apply.

Applicants have to initiate their application registering via a web form available at **<http://www.fundamental-physics.uni-hd.de/fellowships>**. Applications should reach us by December 5, 2010.

RUPRECHT-KARLS-
UNIVERSITÄT
HEIDELBERG



The Department of Physics and Astronomy of the **Ruprecht-Karls-University Heidelberg**, Germany, invites applications for a

W3-Professorship in Theoretical Physics

We are looking for an outstanding theoretical physicist active in the field of fundamental particle physics beyond the Standard Model, complementary to our activities in LHC physics and cosmology. Possible research areas include dark matter, new ideas to understand physics at the TeV scale or future precision experiments.

The new professor is expected to demonstrate a commitment to teaching excellence in Theoretical Physics at both the undergraduate and graduate levels. He/she is also expected to be an active member of the Graduate School of Fundamental Physics.

Prerequisites for application are a university degree, a Ph.D. in physics 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 University of Heidelberg seeks to achieve a higher proportion of women in areas where they have not been adequately represented so far. Women with the required qualifications are particularly encouraged to apply. Preference will be given to disabled applicants with equal qualifications for the position.

Qualified candidates are invited to submit their application including CV, list of publications and a research plan until **January 6, 2011**, to **Prof. M. Salmhofer, Dekan der Fakultät für Physik und Astronomie der Universität Heidelberg, Albert-Ueberle-Str. 3-5, D-69120 Heidelberg**



Postdoctoral Research Positions LIGO Laboratory

California Institute of Technology (Caltech)
Massachusetts Institute of Technology (MIT)

The Laser Interferometer Gravitational-Wave Observatory (LIGO) has as its goal the development of gravitational wave astronomy. The LIGO Laboratory is managed by Caltech and MIT, and is sponsored by the National Science Foundation. It operates observatory sites equipped with laser interferometric detectors at Hanford, Washington and Livingston, Louisiana. The initial detectors have achieved design sensitivity and a data set spanning more than a year of coincidence operation has been collected. Analysis is ongoing, with extensive participation by the LIGO Scientific Collaboration (LSC). Further observation is now underway, with incrementally improved instruments. A major upgrade (Advanced LIGO) is underway in parallel. In addition, a vigorous R&D program supports the development of enhancements to the detectors as well as future capabilities.

The LIGO Laboratory may have several postdoctoral research positions at Caltech, MIT and at the two LIGO observatory sites. Successful applicants will be involved in the operation of LIGO itself, analysis of data, both for diagnostic purposes and astrophysics searches, as well as the R&D program for future detector improvements. Expertise related to astrophysics, modeling, data analysis, electronics, laser optics, vibration isolation and control systems is desirable. Most importantly, candidates should be broadly trained physicists, willing to learn new experimental and analytical techniques, and ready to share in the excitement of building, operating and observing with a gravitational-wave observatory. Appointments at the post-doctoral level will initially be for one-year with the possibility of renewal for up to two subsequent years.

Applications for post-doctoral research positions with LIGO Laboratory should indicate which LIGO site (Caltech, MIT, Hanford, or Livingston) is preferred by the applicant. Applications should be sent to HR@ligo.caltech.edu (Electronic Portable Document Format (PDF) submittals are preferred).

Applications should include curriculum vitae, list of publications (with referred articles noted), and the names, addresses, email addresses and telephone numbers of three or more references. Applicants should request that three or more letters of recommendations be sent directly to HR@ligo.caltech.edu (Electronic Portable Document Format (PDF) submittals are preferred). Consideration of applications will begin December 1, 2010 and will continue until all positions have been filled.

*Caltech and MIT are Affirmative Action/Equal Opportunity Employers
Women, Minorities, Veterans and Disabled Persons are encouraged to apply
More information about LIGO available at www.ligo.caltech.edu*



Tenure Track Faculty Position in Experimental Particle Physics in the Department of Physics and Astronomy

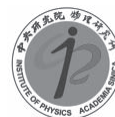
The Department of Physics and Astronomy at the University of Rochester invites applications for a tenure-track faculty position in Experimental Particle Physics. With this position, we seek to broaden the research portfolio of our existing program, which includes research in hadron collider physics at CMS (LHC), CDF and D0, neutrino physics at MINERvA and T2K and quark flavor physics at CLEO and BES. We are particularly interested in considering candidates with a research interest in non-accelerator based particle physics or particle astrophysics, but will consider candidates across the spectrum of Experimental Particle Physics.

Applicants should have a Ph.D., an outstanding record of research, and a commitment to excellence in teaching at both the undergraduate and the graduate level. We seek applications from junior-level candidates; an appointment at a more senior level can be considered for exceptionally well qualified applicants. Each candidate should submit a letter of application, a curriculum vitae including a list of publications, and a description of research and teaching plans. The candidate should arrange for at least four letters of recommendation to be sent to:

HEP Faculty Search Committee, c/o Ms. Shirley Brignall
Department of Physics and Astronomy, University of Rochester
Rochester, NY 14627

Applications may also be submitted by email sent to shirl@pas.rochester.edu. Applications will be considered on an ongoing basis beginning in November 2010.

The University of Rochester has a strong commitment to diversity and actively encourages applications from candidates from groups underrepresented in higher education. The University of Rochester is an Equal Opportunity employer and encourages applicants from members of minority groups and women. All applications are considered without regard to race, sex, age, religion or national origin. Salary will be competitive.



Postdoctoral Position in Astroparticle Physics at the Institute of Physics, Academia Sinica, Taiwan

Applications are invited for a postdoctoral position in astroparticle physics with the AMS (Alpha Magnetic Spectrometer) Experiment at Institute of Physics, Academia Sinica, Taiwan, to work at CERN, Geneva.

AMS is a TeV magnetic spectrometer to search for antimatter, dark matter, strangelets and other unexpected phenomena, as well as to measure precisely cosmic ion spectra aboard the International Space Station from 2011 to 2020 and beyond.

Academia Sinica is the leading research institute in Taiwan. Its research in particle physics includes the ATLAS experiment at CERN and the reactor neutrino experiment TEXONO at Taiwan.

Candidates should have a Ph.D in astroparticle physics at the date of the appointment. Applicants should send a curriculum vitae, a list of publications, a brief statement of research interests, and arrange for at least three letters of recommendation to be sent via email to
Prof. Shih-Chang Lee (phscllee@phys.sinica.edu.tw).

The position will remain open until filled.



For the best careers in physics
visit [brightrecruits](http://brightrecruits.com) –
the new jobs website from IOP Publishing.
brightrecruits.com