

RECRUITMENT

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Universität Hamburg

The Department of Physics in the Faculty of Mathematics, Informatics and Natural Science at the University of Hamburg invites applications for an

ASSOCIATE PROFESSOR W 2/W 3

in Accelerator Physics (Reference number 2081)

The University of Hamburg aims at increasing the number of women in its faculty and specifically encourages applications from qualified women. Disabled persons are given priority over applicants of equal qualification.

Job profile:

We seek candidates with a strong commitment to both research and teaching and with an international reputation in the physics of high energy particle accelerators and/or synchrotron radiation sources. The successful candidate is expected to assume a leadership role in the accelerator physics research related to the existing particle accelerators at DESY, in particular the European XFEL presently under construction, the VUV free-electron laser FLASH and first-class storage rings like PETRA III and/or to novel accelerators, including the future ILC project.

Participation in the planned collaborate research center „Light induced dynamics and control of correlated quantum systems“ is expected.

In particular, we seek candidates with broad interest and expertise in application of lasers for accelerators and for control of electron bunches in the femtosecond regime as well as such areas as beam dynamics, radiation propagation and superconducting accelerator structures.

The position combines the best aspects of working at a major university and a leading laboratory. The present tradition in Hamburg to deeply involve graduate (Bachelor/Master and PhD) students in the accelerator research at DESY shall be continued.

The teaching obligations at the University of Hamburg comprise teaching of undergraduate and graduate students in all degree programs of the physics department as well as supervision of diploma and PhD work. In the framework of opening the university to foreign students, the lectures and exercises can be held in English, especially for students in higher semesters. Good knowledge of the German language is desirable but not a condition.

Successful applicants must fulfill conditions according to § 15 Hamburgisches Hochschulgesetz.

The University of Hamburg sets a high value on teaching quality. Candidates are thus asked to present experiences and plans on teaching.

This is a W2 professorial position, but a W3-level appointment could be considered for a candidate of adequate expertise and proven excellence and experience.

Applicants should send a curriculum vitae, a list of publications, a brief statement of research interests, and material proving the ability to carry out an independent research program and teaching skills before **18th February 2010** to: President of the University of Hamburg, Referat Organisation & Personalentwicklung -631.6, Moorweidenstraße 18, 20148 Hamburg, Germany.

TOR ZUR WELT DER WISSENSCHAFT

Accelerator | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association



SUPER SYMMETRY.

DESY, Hamburg location, is seeking:
Physicist (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.

DESY is participating in the CMS experiment at the European Center for Particle Physics CERN in Geneva. In collaboration with the University of Hamburg a Young Investigator Group with focus on Supersymmetry has recently started at DESY.

The position

- Search for Supersymmetry at CMS: Monte Carlo simulations and analysis of CMS data
- Development of software for data quality monitoring and studies for the HCAL upgrade
- Engagement at the CMS Center at DESY

Requirements

- PhD in experimental particle physics
- Experience in data analysis at high energy experiments, preferentially in supersymmetry
- Profound knowledge of object oriented programming (C++)

Interested candidates should apply with their scientific CV, a list of publications and three letters of reference.

For further information please contact Dr. Isabell Melzer-Pellmann, phone +49 40 8998-2489, isabell.melzer@desy.de.

The position is limited to two years with the possibility of extension. 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: 3/2010C
Notkestraße 85 | 22607 Hamburg | Germany
Phone: +49 40 8998-3392 | E-mail: personal.abteilung@desy.de
Deadline for applications: 28 February 2010
www.desy.de

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





ROYAL INSTITUTE
OF TECHNOLOGY

KTH, School of Engineering Sciences, Department of Physics, announces two tenure track positions as assistant professor:

Experimental Astroparticle Physics
Observations of astrophysical compact objects with the Fermi Gamma-ray Space Telescope; development of instrumentation for observations of polarized cosmic X-rays.

Experimental Particle Physics
Studies of hadron-hadron collisions at the LHC with the ATLAS experiment.

For more information see
www.physics.kth.se

The International Relativistic Astrophysics PhD (IRAP PhD) selected by the European Commission as an Erasmus Mundus Joint Doctorate

This PhD programme has a duration of 3 years and is developed within a consortium:

- UNIVERSITE DE NICE - SOPHIA ANTIPOLIS, France (Coordinating institution)
- SHANGHAI ASTRONOMICAL OBSERVATORY, China
- FREE UNIVERSITY OF BERLIN, Germany
- AEI - POTSDAM, Germany
- TARTU OBSERVATORY, Estonia
- STOCKHOLM UNIVERSITET, Sweden
- UNIVERSITY OF FERRARA, Italy
- UNIVERSITY OF ROME - LA SAPIENZA, Italy
- BRAZILIAN CENTRE FOR PHYSICS RESEARCH, Brazil
- OBSERVATORY OF THE CÔTE D'AZUR, France
- INDIAN CENTRE FOR SPACE PHYSICS, India
- INTERNATIONAL CENTER FOR RELATIVISTIC ASTROPHYSICS NETWORK, Italy
- UNIVERSITY OF SAVOIE, France

Applications are now solicited for the course starting in September 2010.

Deadline for Application: February 28, 2010

We invite applications from top-ranked students that either hold or are expected to obtain before August 2010 a Master Degree in Theoretical Physics, Astronomy, Astrophysics, Mathematics or closely related fields. A certified good knowledge of the English language is required.

10 Erasmus Mundus Doctorate Fellowships will be made available by the European Commission, with a monthly stipend of 2800 euros plus a travel allowance.

The selection of students is primarily based on excellence.

Full information about the IRAP PhD programme, the application form, current poster, and detailed instructions on how to apply can be found on the web-site:

<http://www.irap-phd.org/>

Contact for enquiries is: chardonnet@lapp.in2p3.fr (Prof. Pascal Chardonnet)

Prof. Remo Ruffini, Director of IRAP PhD, University of Roma La Sapienza & ICRANet



The Technical University Berlin, Faculty II, Institute for Optics and Atomic Physics and the Deutsches Elektronen-Synchrotron DESY (DESY) want to fill in as joint appointment a professorship (W3) for

Accelerator Physics for Novel Light Sources

Reference number: II-864

Besides taking an adequate share in teaching physics courses at the university the position includes the coordination of accelerator physics research and development at DESY in Zeuthen, near Berlin, as a leading scientist.

DESY, a member of the Hermann von Helmholtz-Association, develops, constructs and operates accelerator facilities for research in basic natural science available to researchers worldwide. The research programme spans from particle physics to the physics of condensed matter and to molecular biology. DESY plays a central role in the accelerator construction for the European X-ray Laser XFEL. Some important R&D work for this project and for the existing FEL FLASH is being pursued at Zeuthen.

The Technical University Berlin and DESY are looking for an internationally recognized scientist, who will play a major role in the development of accelerator physics and technology with emphasis on Free Electron Lasers. Close cooperation with the Helmholtz-Zentrum Berlin and the Max-Born-Institute is aimed for. Further information can be obtained from Dr. U. Gensch (ulrich.gensch@desy.de), Dr. R. Brinkmann (reinhard.brinkmann@desy.de) or Prof. T. Möller (thomas.moeller@physik.TU-Berlin.de).

Conditions for the position are lecturing qualifications (Habilitation) or equivalent scientific achievements obtained in industry or research centres as well as educational aptitude. Experience in raising external funds is being expected. Compliance with the requirements of the profession according to § 100 BerlHG are assumed (information will be given on request).

The Technical University is an equal opportunity employer. Women, therefore, are particularly encouraged to apply. Applications of disabled persons will be preferred in cases of equal qualification.

Applications should be sent before 28 February 2010 to the president of the **Technical University Berlin, Außenstelle Physik, Sekr. EW 2-1, Hardenbergstraße 36, 10623 Berlin, Germany.**



The Physics Department at Brookhaven National Laboratory seeks to fill an **Associate Physicist** position. This position requires a Ph.D. in high-energy nuclear physics or high-energy physics. Candidates should have a proven track record on design, fabrication, assembly and operations of detectors, as well as having demonstrated the capacity for doing independent research in high-energy nuclear physics or high-energy physics for a minimum five years after receipt of Ph.D. Experience with data-acquisition systems is highly desirable.

The Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory is the world's only machine capable of colliding high-energy beams of polarized protons, and is a unique tool for exploring the puzzle of the proton's 'missing' spin. Members of the RHIC spin group are playing key roles in detector development and analysis of the polarized proton-proton data in both the PHENIX and STAR collaborations at RHIC. The other major involvement of the RHIC spin group is in the RHIC polarimeters, which provide the measurement of the polarization of the proton beams at RHIC.

The successful candidate will be asked to take a leadership role in the RHIC polarimetry effort by coordinating the upgrade of the RHIC carbon polarimeters as well as the online and offline data analysis. As a member of the group, the successful candidate will be able to choose one of the collaborations and work on analysis of the polarized proton-proton data. In the future, the eRHIC program will give the opportunity to advance and to develop new technologies for hadron and electron polarimetry.

For further details on this position, please contact E.C. Aschenauer (elke@bnl.gov). Under the direction of E. Aschenauer, Physics Department.

Please go to <http://www.bnl.gov/hr/careers/> and click on Search Job List to apply for this position. Please apply to Job ID # 15114.

Brookhaven National Laboratory is an equal opportunity employer committed to building and maintaining a diverse workforce.

POSITION AS LINAC DESIGN AND RF MEASUREMENTS EXPERT

A.D.A.M. SA (www.adam-geneva.com) is a Swiss Company located in Geneva which core business is the development of Linear Accelerators for Medicine.

JOB DESCRIPTION

A.D.A.M. is looking for an additional design expert for Radio Frequency accelerating structures and measurements to work in a project of an innovative linac for protontherapy. The successful candidate will join a team of physicists, engineers, designers and technicians, working on the R&D and industrialization of the accelerator.

Applicants should meet the following requirements: have a degree in Physics or Engineering, Master level, be familiar with 3D electromagnetic field simulation codes (Microwave Studio, ANSOFT HFSS or equivalent) and have experience in designing and measuring linear accelerating structures.

Good knowledge of beam dynamics is a plus. Working language is English.

TERM OF APPOINTMENT

The position foresees three months of probationary period, which may lead to a full-time position as ADAM staff.

SALARY

Gross annual salary would be not less than CHF80,000 depending on education, experience, and seniority of the candidate.

APPLICATIONS

Application deadline is February 1, 2010. Early consideration of outstanding applications are possible. The starting date: According to availability of the appointee.

The applications should be sent electronically to info@adam-geneva.com

The application should include a curriculum vitae, a letter stating your interest on the activity, a list of publications, the names of at least three references that can be contacted by ADAM.

Associate Scientist – Fermi National Accelerator Lab

As a member of the Magnet Systems Department of the Technical Division, the successful candidate will conduct R&D in support of Fermilab's superconducting magnet program, which includes: collider ring dipoles and quadrupoles for future accelerators, muon cooling solenoids for muon collider R&D, magnets for new high intensity proton accelerator (Project X), solenoids for a muon conversion experiment (Mu2e) and beam line magnets for the Long Baseline Neutrino Experiment (LBNE), as well as magnet support for the Fermilab accelerator complex now in operation.

Summary of Responsibilities

- Under the guidance of experienced senior scientists, conduct R&D in support of the Fermilab state-of-the-art superconducting magnet program with emphasis on the magnetic, thermal, mechanical and quench design and analysis of the test results.
- Develop research interests that are aligned with Fermilab's magnet program.
- Propose and execute R&D activities in the area of accelerator physics and accelerator technology related to the overall mission of the Laboratory.
- Participate in relevant conferences, workshops and meetings.
- Publish research results in referenced journals.

Minimum Qualifications Requirements

- Demonstrated ability to carry out independent research and/or project leadership
- Ph.D. in physics or closely related field
- 2+ years of post-doctorate experience
- Good oral and written communication skills

Preferred Qualifications Requirements

- Practical experience with accelerator magnet design, analysis, fabrication and test.
- Working knowledge of finite element modeling tools for magnetic, mechanical and thermal analysis is highly desirable.
- Experience in applied superconducting technology is desirable.

Applicant should include curriculum vitae and a publication list. Applications and requests for information should be sent to Victor Yarba at yarba@fnal.gov.



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



The Institute of Nuclear Physics in the Department of Physics at the Technische Universität Darmstadt invites applications for a

Full University Professorship in Theoretical Nuclear Astrophysics (W3)

(Code. Nr. 440)

to be filled by October 1st, 2010

The professorship will be part of the Helmholtz International Center for the Facility for Antiproton and Ion Research (HIC for FAIR) funded by the Hessian Excellence Initiative LOEWE.

Applicants should have an outstanding research record of international stature at the interface between theoretical nuclear structure and nuclear astrophysics, ideally, with focus on nucleosynthesis processes, stellar evolution, explosive events, or compact objects. The successful candidate is expected to complement and strengthen the research activities of the local research groups at the GSI Helmholtzzentrum für Schwerionenforschung and at the Institute of Nuclear Physics at the Technische Universität Darmstadt. Furthermore, major contributions to the research program of HIC for FAIR and of the research center "Nuclear and Radiation Physics" at the Technische Universität Darmstadt are expected, particularly with regard to the international Facility for Antiproton and Ion Research (FAIR). Synergies with the research activities within the DFG Collaborative Research Center 634 "Nuclear Structure, Nuclear Astrophysics and Fundamental Experiments at Low Momentum Transfer at the Superconducting Darmstadt Accelerator (S-DALINAC)" are welcome.

The successful appointee will teach theoretical physics in its full breadth and will take part in academic administration. The appointee should complement and extend the research profile of the Department of Physics and of the GSI Helmholtzzentrum and strengthen the Department through external fundraising. Willingness to participate in interdisciplinary cooperations with the scientists within HIC for FAIR is expected.

The position will be either permanent or non-permanent with a remuneration package depending on experience and qualifications, in accordance with the German "W-Besoldung". Non-permanent contracts can be made permanent following positive evaluation. The regulations for employment are specified under §§ 70 and 71 HHG (Hessisches Hochschulgesetz).

Candidates who already hold a civil servant status (Beamtenverhältnis) can be reappointed under the same status. After an initial period of HIC for FAIR funding, the funding of this professorship will be provided by GSI.

The Technische Universität Darmstadt intends to increase the number of female faculty members and encourages female candidates to apply. In case of equal qualifications severely disabled applicants will be given preference.

Two copies of the application including the usual documents (curriculum vitae, list of publications, two-page research concept, teaching record, administration and external fundraising record) should be sent under the above stated code number to the Dean of the Department of Physics, TU Darmstadt, Hochschulstraße 12, 64289 Darmstadt, Germany by **February 10th, 2010**. For questions regarding the position, please contact Professor Dr. Robert Roth, Institute of Nuclear Physics (++49 (0)6151-16 2072, robert.roth@physik.tu-darmstadt.de).



MAX-PLANCK-GESELLSCHAFT

Max-Planck-Institut for Nuclear Physics
Heidelberg
Germany

Postdoctoral position (m/f) Experimental Dark Matter Physics



The Max-Planck-Institut for Nuclear Physics (MPIK) in Heidelberg invites applications for a post-doctoral position in the field of dark matter search.

MPIK is involved in the XENON experiment which aims in the direct detection of dark matter using a liquid xenon detector. In addition, it participates in the DARWIN project, part of the ASPERA road-map, which coordinates the European R&D effort in this field towards a ton to multi-ton scale noble liquid dark matter search facility. At MPIK, which is also involved in the neutrino experiments Borexino, Double Chooz and Gerda, there is a long-standing expertise in ultra-low background physics with various technologies to detect radioactive trace impurities with unrivaled sensitivity.

The successful candidate will participate in the relevant activities of the group in XENON and DARWIN. He/She will have the opportunity to contribute to the full spectrum of activities from data analysis of the running XENON-100 experiment to R&D activities for the quick realization of a ton-scale experiment. He/She is particularly encouraged to contribute to the development of new and more sensitive ultra-low background detection techniques, as they are crucial for the success of

such experiments. The candidate must have a Ph.D. in experimental particle or nuclear physics. Candidates having previous experience in direct dark matter detection or in the handling of liquefied gases are particularly encouraged to apply.

The position is initially for three years (or up to 5 years, depending on qualification) starting as soon as possible. Applications should include a CV (resume), a statement of research interests, a publication list and arrive until **February 15, 2010 (ref. # 01/2010)**. Two or three letters of reference should also be provided. Applications and letters should preferentially be uploaded to the online application system under <http://www.mpi-hd.mpg.de/~lindner/xenon/>

or directly sent by email or postal mail to:

Prof. Dr. Manfred Lindner
Max-Planck-Institut fuer Kernphysik
Saupfercheckweg 1
69117 Heidelberg, Germany

Tel.: +49-6221-516-800, Sec. -801, Fax -802
Email: lindner@mpi-hd.mpg.de
<http://www.mpi-hd.mpg.de/lin/>

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Research Associates

The Accelerator Physics Center (APC) is seeking strong candidates for Research Associate positions. Fermilab's APC is responsible for coordinating and/or providing support for all accelerator R&D at Fermilab including activities aimed at improvements to the existing complex, next-generation accelerator facilities, and advanced accelerator R&D for the long-term future. Main areas of the APC research are Muon Collider and Neutrino Factory R&D; High Intensity Neutrino Source; Beam Physics in Project-X, ILC and at the LHC; Theory and Simulations; Advanced Accelerator R&D. Appointments are typically for three years with one year renewals possible thereafter.

Postdoctoral research associates may participate in the full range activities of the Fermilab Accelerator Physics Center including mathematical modeling of new and existing accelerator facilities, design, commissioning and operation of beam facilities, performance and analysis of beam physics experiments, design of new accelerator components, and research on new concepts and methods of beam acceleration.

Principal Responsibilities

- Participate on scientific teams to carry out research on the relations between space, time, matter, and energy in the areas of detectors and electronics, accelerator technology, computing techniques, ES&H documentation, and/or other technical procedures and functions related to the mission of the Laboratory
- Apply established scientific methods and technology to well-defined, moderately difficult projects to achieve Laboratory goals
- Select and make minor adaptations to procedures and accepted practices
- Participate in Laboratory and University collaborations
- Develop, present, defend, and complete paper on research projects

Demonstrated ability to carry out independent research and Ph.D. in Physics or relevant subject are required. Preference will be given to applicants seeking their first long-term postdoctoral appointment, but applicants with previous postdoctoral experience will also be considered.

Applications and requests for information should be addressed to Dr. Vladimir Shiltsev shiltsev@fnal.gov. Applications should include a curriculum vitae, publication list, research statement, and three letters of reference.



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

RECRUITMENT COMPUTING JOBS

We are looking for a

Project Coordinator Grid

About Us

SWITCH is operating the Swiss education network with innovative IT services for Universities in Switzerland. In addition, SWITCH is operating the domain name registration for domains ending in ".ch" and ".li". Our offices are located in downtown Zurich, and the company has 90 employees.

The Job

SWITCH is participating together with Swiss Universities in a EU-funded project that coordinates a Grid infrastructure across Europe („European Grid Initiative“ – EGI). SWITCH is acting as the leading institution for Switzerland within this project, for which we have an open position for a project coordinator. The job description comprises besides the coordination of the Swiss participants, the reporting towards the overall project as well as participation in technical work. The latter consist of software development as well as operating grid services.

Your Profile

You hold a higher degree in computer science or a related field and have in-depth knowledge of internet technologies, web services, object-oriented programming, PKI and software engineering. Experience in grid computing is highly desirable; participation in



EU funded projects is a definite plus. You have gained experiences in project management and you enjoy working in an international environment in the area between research, implementation and operation. As an open personality with good communicative skills you value the collaboration with your customers. You are fluent in English and have the ability to express yourself in German.

We Offer

Competitive employment conditions, very good social benefits, flexible working hours as well as your continuing education are important to us.

Contact

SWITCH, Human Resources, Gudrun Reheis, P.O. Box, 8021 Zürich, Tel. 044 253 98 22, personal@switch.ch

SWITCH

Serving Swiss Universities

Werdstrasse 2, P.O. Box, CH-8021 Zürich
Phone +41 44 268 15 15, www.switch.ch



The Physics Department at Brookhaven National Laboratory seeks a Linux/Solaris System Administrator. This position requires a masters degree with a minimum of 3 years of experience or a bachelors degree with a minimum of 5 years of relevant experience, preferably in computer science or related discipline. Demonstrated experience in administering Linux-based clusters, Solaris, ZFS, Java and distributed systems is required. Working knowledge of shell scripting, Perl/Python, cfengine or similar tools for cluster administration, virtualization (vmware or xen) software, web-based languages and MySQL is essential. Familiarity with monitoring tools such as Nagios, Ganglia and Cacti is desirable. The ability to work in a team-like environment (often under pressure and project deadlines) is essential.

The Linux/Solaris System Administrator will provide system level administration and support to a large scale storage cluster and contribute to the efforts by the General Computing Environment (GCE) team to support the RACF operations. In this role they will be responsible for hardware/software deployment, configuration management, user support and troubleshooting.

Yearly compensation is in the range of \$66k - \$80k U.S. dollars (plus health, retirement and other benefits), depending on qualifications and experience.

Please go to <http://www.bnl.gov/hr/careers> and click on Search Job List to apply for this position. Please apply to Job ID # 15122.

Brookhaven National Laboratory is an equal opportunity employer committed to building and maintaining a diverse workforce.

Career videos on cerncourier.com

cerncourier.com's brand-new career video section showcases career opportunities at key research institutions around the world.



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