

RECRUITMENT

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Accelerators | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association



COLLIDER PHENOMENOLOGY.

**DESY, Hamburg 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 theory group pursues a vigorous research programme in the investigation of the fundamental interactions of nature and the fabric of matter, space and time. In particular, possible manifestations of TeV-scale physics at the Large Hadron Collider (LHC), at other existing facilities and at a future Linear Collider are studied in close interaction with the activities in particle cosmology, lattice gauge theory and string theory.

The position

- Research on collider phenomenology at an internationally competitive level, with a particular focus on physics beyond the Standard Model

Requirements

- Ph.D. in physics
- Excellent research record and international reputation in the area of particle physics phenomenology
- Team ability and very good English language skills
- Commitment to active engagement with experimental groups

Applications should include CV, research statement and a list of publications.

For further information please contact Dr. Georg Weiglein, +49 40 8998-2523, georg.weiglein@desy.de.

Salary and benefits are commensurate with those of public service organizations 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: 14/2010C
Notkestraße 85 | 22607 Hamburg | Germany | Phone: +49 40 8998-3392
e-mail: personal.abteilung@desy.de

Deadline for applications: 15. March 2010
www.desy.de

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KENT STATE
UNIVERSITY

[Job No. 991007]

Tenure Track Faculty Position in Theoretical Physics
Kent Campus, Kent OH

We wish to add support to one of two areas: A) Strong interaction theory related to nuclear matter at high energy density or temperature as typified by experiments such as at RHIC/LHC, or B) Condensed matter theory complementing existing strengths in the department, which include correlated and quantum matter, low temperature physics, and soft matter.

Successful candidates will be expected to teach at the undergraduate and graduate levels and carry out a productive research program that is likely to attract external funding.

Applicants should submit a CV including a list of publications, statements of research and teaching interests, and arrange to have at least three letters of recommendations sent to:

Prof. John Portman, Chair, Theory Faculty Search Committee,
Department of Physics, Kent State University, Kent, Ohio, 44242.
Email: phystheorysearch@kent.edu.

Screening of applications will begin February 15, 2010 and continue until the position is filled. Applicants must also fill out an online application at

<http://jobs.kent.edu/applicants/Central?quickFind=184625>.

Kent State University is an AA/EEO employer.

The Karlsruhe Institute of Technology (KIT) is the result of the merger of the Universität Karlsruhe (TH) and the Forschungszentrum Karlsruhe. It is a unique institution in Germany, which combines the mission of a university with that of a national research center of the Helmholtz Association. With 8000 employees KIT is one of the largest research and education institutions worldwide.

The Physics Department at Karlsruhe Institute of Technology invites applications for the position of a

Professorship (W3) of Experimental Elementary-Particle Physics

at the Institut für Experimentelle Kernphysik (IEKP). The position has been established in the framework of the Ausbauprogramm 2012 of the state of Baden-Württemberg which will take effect as of winter 2010/2011.

The research focus of the successful candidate should lie in the field of physics at particle accelerators with emphasis on the search for dark matter or for other new phenomena, and should include the development of new detector technologies.

The position is embedded in an excellent research environment in theoretical and experimental elementary particle physics and astroparticle physics carried out in several institutes at KIT. The successful candidate is expected to support the KIT-Center Elementary Particle and Astroparticle Physics (KCETA) and to participate at current and future graduate schools of KCETA.

Teaching duties include appropriate participation in the lecture courses for our basic and advanced programmes in physics, both for physics majors and students of other disciplines. Proficiency in German is expected.

Applicants must have the degree of Habilitation or demonstrate equivalent scientific qualification as well as experience in teaching.

KIT aims to increase the number of female professors and especially welcomes applications from women. Handicapped persons with equal qualifications will be preferred.

Applications with standard documentation, including a summary of past teaching, a research plan as well as a list of the five most important publications, should be sent by **April 9th, 2010** to:
Dekan der Fakultät für Physik, Karlsruher Institut für Technologie (KIT), Campus Süd, D-76128 Karlsruhe

KIT - University of the State of Baden-Württemberg and National Laboratory of the Helmholtz Association.

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.



PARTICLE PHYSICS.

DESY has openings for: DESY-Fellowships (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

Fellows in experimental particle physics are invited to participate in DESY's particle physics research.

- Analysis of HERA data
- Participation in the LHC experiments ATLAS and CMS
- Preparations of the International Linear Collider ILC (accelerator and experiments)
- Phenomenology and Monte Carlo development within the Analysis Centre of the Helmholtz Alliance

Requirements

- PhD completed within the last 4 years
- Application including a resume and the usual documents (curriculum vitae, list of publications and copies of university degree)
- Three letters of reference shall be arranged to be sent to the DESY Human Resources Department

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

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: 1/2010

Notkestraße 85 | 22607 Hamburg | Germany

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

Deadline for applications: 31 March 2010

www.desy.de

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Das Karlsruher Institut für Technologie (KIT) ist aus der Fusion von Universität Karlsruhe (TH) und Forschungszentrum Karlsruhe hervorgegangen. Damit entstand eine deutschlandweit einmalige Institution, in der die Missionen einer Universität und eines Forschungszentrums in der Helmholtz-Gemeinschaft vereint sind. Mit 8000 Mitarbeitern und einem Jahresbudget von 650 Mio. Euro zählt das KIT zu den weltweit größten Forschungs- und Lehrinrichtungen.

In der Fakultät für Chemieingenieurwesen und Verfahrenstechnik ist am Institut für Technische Thermodynamik und Kältetechnik, Campus Süd, zum 1. Oktober 2011 eine

W3-Professur für Kälte- und Kryotechnik

zu besetzen, die mit der Leitung einer Arbeitsgruppe in der Abteilung Kryotechnik am **Institut für Technische Physik**, Campus Nord, verbunden ist.

Gesucht wird eine ausgewiesene Persönlichkeit, die das Fach Kälte- und Kryotechnik in Lehre und Forschung vertritt. Die zukünftigen Forschungsschwerpunkte sollen sowohl grundlegender als auch angewandter Natur im Bereich der Kälte- und Kryotechnik sein. Drittmitteleinwerbung und Mitarbeit in themenbezogenen nationalen und internationalen Fachgremien werden erwartet.

Zu den Lehraufgaben gehört unter anderem die Übernahme von Vorlesungen in den Bachelor- und Masterstudiengängen der Fakultät zu Grundlagen der Kältetechnik bis zur angewandten Kryotechnik. Die Mitwirkung im Institutsbetrieb und in der akademischen Selbstverwaltung wird erwartet.

Das KIT legt Wert auf die berufliche Gleichstellung von Frauen und Männern. Wir würden uns daher insbesondere über die Bewerbungen von Frauen freuen. Schwerbehinderte Bewerber/innen werden bei entsprechender Eignung bevorzugt berücksichtigt.

Bewerbungen mit den üblichen Unterlagen werden erbeten bis zum **16.04.2010** an das **Karlsruher Institut für Technologie (KIT), Campus Süd, Fakultät für Chemieingenieurwesen und Verfahrenstechnik, D-76128 Karlsruhe**. Fachliche Auskünfte erteilt Ihnen gerne der Dekan, Herr Prof. Dr.-Ing. H. Nirschl, Tel. ++49 (0)721/608-3786.

KIT - Universität des Landes Baden-Württemberg und nationales Forschungszentrum in der Helmholtz-Gemeinschaft

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.

The Institute for Theoretical Physics at the Department of Physics of the Westfälische Wilhelms-University Münster invites applications for a tenured

Professorship in Theoretical Physics - Particle Theory - (salary scale W3)

starting in the winter term of 2010.

The successful candidate should hold a PhD in theoretical physics and should have a strong research and teaching record in the field of quantum field theory or particle theory. The candidate is expected to seek close collaboration with the other theoretical and experimental research groups at the department in the area of particle physics. Teaching obligations include all areas of theoretical physics at the B.Sc. and M.Sc. level. In addition, the successful candidate is expected to participate in the academic administration of the department as well as in the further development of curricula of the B.Sc. and M.Sc. programs as well as graduate programs.

The Westfälische Wilhelms-University Münster is an equal opportunity employer and is committed to raising the proportion of women scientists in academic positions. Consequently, we actively encourage applications from suitably qualified women. Women with the qualifications and disciplinary expertise required will be preferentially considered. We also welcome applications from candidates with severe disabilities who, with suitable qualifications, will be preferentially considered.

Applications with a C.V., including teaching experience and publication list, copies of degree certificates, and a statement of past and future research interests, should be made by **April 30th, 2010** to the Dean of the Faculty of Physics:

Dekan des Fachbereichs 11 (Physik)
Herrn Prof. Dr. Johannes P. Wessels
Wilhelm-Klemm-Str. 9, 48149 Münster, Germany

www.uni-muenster.de

The Physics Faculty of the Technische Universität München invites applications for a

Full Professorship (W3) in Theoretical Elementary Particle Physics

opening October 1, 2010.

The professorship includes teaching obligations in the broader field of Theoretical Physics. Candidates should have a strong research record in Theoretical Elementary Particle Physics, in particular in phenomenology and modelling beyond the Standard Model, with reference to the scientific programme of the Cluster of Excellence "Origin and Structure of the Universe" (www.universe-cluster.de). The successful candidate is expected to communicate and co-operate with theoretical and experimental groups in the Munich research area.

Prerequisite is a university degree, pedagogical aptitude, PhD and "Habilitation" or equivalent scientific profile. Applicants may not yet have completed 52 years of age. Deviations from this age limit can be granted in exceptional situations. Disabled persons will be favoured in case of otherwise comparable suitability.

Within the German Federal and State supported Excellence Initiative, the Technische Universität München aims at a significant increase in the number of women in science and teaching. Female scientists are therefore advised with special emphasis to apply for this position.

Applications including a curriculum vitae, documentation concerning earned degrees, a publication list and copies of the most important publications, should be sent by **March 15, 2010** to:

Dekan der Fakultät für Physik, TU München, James-Franck-Straße, D-85748 Garching, Germany, or via www.universe-cluster.de (-> Jobs).

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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

The Excellence Cluster for Fundamental Physics

'Origin and Structure of the Universe'



RESEARCH FELLOWS in Astrophysics, Cosmology, Nuclear and Particle Physics

The Cluster of Excellence 'Origin and Structure of the Universe' is a joint research institution at the Technical University Munich funded by the Excellence Initiative of the Federal Government of Germany. It is a co-operation by the physics departments of the Technical University Munich and the Ludwig-Maximilians University, four Max-Planck Institutes (MPA, MPE, MPP, IPP) and ESO. The main goal of the Cluster is to solve fundamental questions of astrophysics and cosmology by interdisciplinary research.

For our **FELLOWSHIP PROGRAM** we are looking for excellent young scientists on the postdoc level who will pursue their individual research activities and are interested in a strong collaboration with existing Cluster research groups. Fellows benefit from an ideal scientific infrastructure at the Campus Garching and the attractions of the Munich area. The duration for **contract is 2 years**. Fellows receive their **own budget** for running costs.

The advancement of women in the science is an integral part of the cluster and the university's policy. Women are therefore especially encouraged to apply. Persons with disabilities will be given preference to other applicants with equal qualifications.

Application

Applicants should prepare a covering letter and the following documents as PDF files: a CV, a publication list, certificates (diploma, PhD), past research activities and a research plan. These files can be uploaded in the job section on the Cluster website www.universe-cluster.de. Further, applicants are asked to arrange for three letters of recommendation to be sent by e-mail to andreas.mueller@universe-cluster.de. The closing date for receipt of applications is **30 April 2010**.

Contact

Technische Universität München · Excellence Cluster Universe
Dr. Andreas Müller · Boltzmannstrasse 2
85748 Garching · Germany

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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



JEDI KNIGHT OF NEW TECHNOLOGY

HexWax Ltd is a well-financed technology start-up based in Central London. Its core business is the development of pre-programmed microcontroller products serving the electronics industry.

We have an exciting opportunity for an exceptional candidate to work as Jedi Knight of New Technology, responsible for the development of a portfolio of new microcontroller products. Each project requires microcontroller software development and electronics skills, and the ability to switch from one field of study to another on a regular basis. Typically you will develop a handful of products in parallel, taking them from initial concept to marketable product, and support them as needed. Documenting products will require good written English. (Chinese would be a bonus.)

The ideal candidate will not only be a graduate or postgraduate in physics or electrical engineering but will also have strong entrepreneurial instincts. This job is not just about developing a product to specification; you need a gut feel what makes products a success.

The salary is competitive and contains a significant component directly related to the success of the products the candidate is responsible for, with no cap on the up-side. Reporting directly to the CEO from the outset, the candidate will be well placed to rise in seniority as the company grows.

The position is open until filled, so the sooner you apply, the better. Send your cv and 250 words on why the position interests you to rgh@hexwax.com, to whom any inquiries may also be addressed.

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with CERN Courier's new dedicated
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To promote your computing vacancies, contact Sarah Vokins,
e-mail sarah.vokins@iop.org; tel +44 (0)117 930 1196.