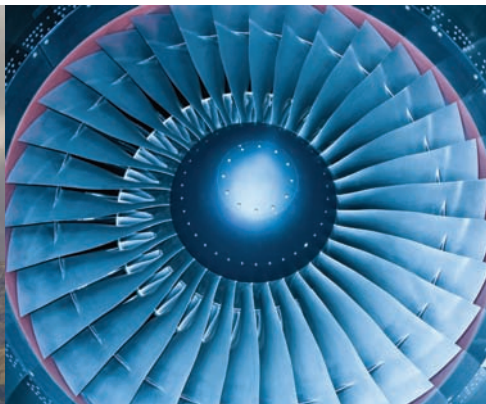


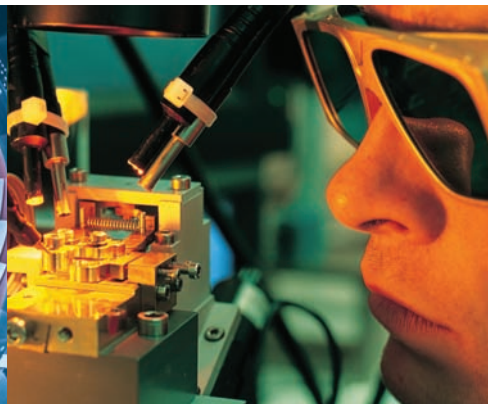
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Wir stellen ein:

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MAINZ

Beim **Fachbereich 08 (Physik, Mathematik und Informatik) - Institut für Kernphysik** - zum nächstmöglichen Termin eine/einen

Wissenschaftliche/n Mitarbeiter/in – Diplomphysiker/in als Leiter/in der Technischen Betriebsgruppe Elektronik (Entgeltgruppe 14 TV-L)

>> Bei Vorliegen der tarifrechtlich nötigen, persönlichen Voraussetzungen kann die Eingruppierung in Entgeltgruppe 15 TV-L erfolgen <<

- Kenn-Nr.: 0809-08-wiss-sd -

Die Mainzer Mikrotronanlage MAMI am Institut für Kernphysik der Johannes Gutenberg-Universität Mainz besteht aus einer Kaskade mehrerer Mikrotrone und liefert einen kontinuierlichen Strahl polarisierter oder unpolarisierter Elektronen mit variabler Energie von maximal 1,5 GeV. Die herausragende Strahlqualität bietet einzigartige Experimentiermöglichkeiten zur Grundlagenforschung im Bereich der Kern- und Teilchenphysik.

Der/die Stelleninhaber/in ist zuständig für die Planung, Berechnung und Entwicklung von digitalen und analogen Steuer-, Überwachungs-, Mess- und Datenerfassungssystemen sowie von Geräten der Leistungselektronik für den Betrieb der Beschleunigeranlagen und den Experimentiereinrichtungen. Diese Aufgaben beinhalten die Erstellung von Gesamtkonzeptionen der elektronischen Instrumentierung, die Festlegung der einzusetzenden Technologien und die Definition der Schnittstellen der Teilprojekte. Zum Aufgabengebiet gehört ferner die Formulierung der Teilprobleme für die Entwickler (Ingenieure und Techniker der Technischen Betriebsgruppe Elektronik), das Aufzeigen der Realisierungsmöglichkeiten sowie die Beratung, Unterstützung und Motivation der Entwickler bei der Durchführung ihrer Aufgaben. Die Mitarbeit im Bereich der akademischen Lehre wie z.B. die Durchführung von Vorlesungen auf dem Gebiet der Elektronik und Signalverarbeitung sowie die Mitarbeit an den entsprechenden Praktika wird ausdrücklich gewünscht.

Einstellungsvoraussetzung ist ein abgeschlossenes, wissenschaftliches Hochschulstudium als Dipl.-Physiker / Dipl.-Physikerin oder vergleichbare Kenntnisse und Fähigkeiten. Weiterhin ist der Nachweis der Fähigkeit zu selbstständiger wissenschaftlicher Arbeit Voraussetzung (Promotion).

Der Stelleninhaber / die Stelleninhaberin muss neben erstklassigen Kenntnissen der allgemeinen Elektronik und Datenerfassung auch ein weit überdurchschnittliches Wissen im Bereich der kernphysikalischen Sonderelektronik, der Detektortechnik, der Datenverarbeitung und verwandter Gebiete besitzen. Die Abwicklung der verschiedenen Projekte erfordern vom Leiter dieses Bereiches Führungsqualitäten, Managementvermögen und ausgezeichnete organisatorische Fähigkeiten.

Die Johannes Gutenberg-Universität Mainz ist bestrebt, den Anteil der Frauen im wissenschaftlichen Bereich zu erhöhen, und bittet daher Wissenschaftlerinnen, sich zu bewerben.

Schwerbehinderte werden bei entsprechender Eignung bevorzugt berücksichtigt.

Ihre Bewerbung richten Sie bitte bis zum **30.06.2009** an:



Institut für Kernphysik
Fachbereich 08 Physik, Mathematik und Informatik,
55099 Mainz.

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Professor of Experimental Particle Physics

The Department of Physics (www.phys.ethz.ch) at ETH Zurich invites applications for a professorship of Experimental Particle Physics. The candidate should have a strong research program in the field of experimental particle physics, with a focus on collider physics.

The Department offers a stimulating environment both in experimental and theoretical particle physics, with activities at the high energy frontier with the LHC at CERN, in accelerator-based neutrino physics, in Astro-Particle Physics with dark matter searches and gamma-ray astronomy, as well as in R & D for future detector technologies. These activities are complemented and supported by the presence of a strong theory group at the Department and of experimental and theoretical groups at the close-by Paul Scherrer Institute, PSI (www.psi.ch), which also hosts the CMS Tier-3 computing centre for the CMS groups in the Zurich area.

The future professor will make leading contributions to the LHC physics exploitation, to the operation of the CMS detector and to its eventual upgrades. Teaching duties involve the physics curriculum at the undergraduate level and advanced courses in particle physics in the Master's program. He or she will be expected to teach undergraduate level courses (German and English) and graduate level courses (English).

The appointment will be at the Associate or Full Professor level.

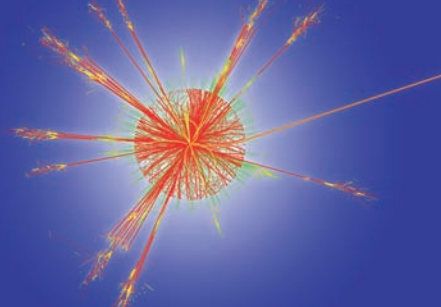
Please submit your application together with a curriculum vitae, a list of publications, and a brief statement of present and future research interests to the President of ETH Zurich, Prof. Dr. Ralph Eichler, Raemistrasse 101, 8092 Zurich, Switzerland, no later than June 30, 2009. With a view toward increasing the number of female professors, ETH Zurich specifically encourages female candidates to apply.

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The Excellence Cluster for Fundamental Physics

'Origin and Structure of the Universe'



The Cluster of Excellence 'Origin and Structure of the Universe' is a research project 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. We are looking for

RESEARCH FELLOWS

In the **Fellow Program** we are looking for excellent young scientists (experienced postdocs). One of the most prominent goals of the Cluster is to foster interdisciplinary work between particle and astrophysics. Therefore, we are especially interested in candidates who can contribute to the following fields:

- Dark matter and SUSY,
- Leptogenesis and matter-antimatter asymmetry,
- Neutrinos and stellar explosions.

Beside these vacancies, candidates can also apply with research issues chosen by themselves. Research fellows with the Cluster are expected to engage in a strong collaboration with existing research groups. They will receive their own budget for running costs. The duration of their contracts is two years.

Further, we offer positions for

POSTDOCTORAL RESEARCHERS DOCTORAL STUDENTS

Postdoctoral Researchers will work in specific groups and in well-defined projects, outlined in more detail in the specific job description on our website.

Doctoral Students will be assigned to specific projects and supervisors. The students will be enrolled at the supervisor's University that will also award the doctoral degree in physics. The duration of the PhD program is three years.

Candidates of all groups are chosen in a competitive manner. They will benefit from the outstanding scientific infrastructure at the Garching Campus and the team-oriented, interdisciplinary work atmosphere. Regular seminars, conferences and our extensive visiting-scientists program offer excellent opportunities for researchers to broaden their scientific horizon and embark upon new collaborations.

The advancement of women in science is an integral part of the Cluster's and the University's policies. Therefore, we especially encourage women to apply. Persons with disabilities will be given preference to other applicants with equal qualifications.

Application:

Details on job vacancies and research of the Cluster can be found on our website www.universe-cluster.de. Applicants should complete the web-based application form in the respective job description (-> **jobs button**). Here you also find further information on deadlines and the application documents required.

Contact:

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



DIRECTOR, ACCELERATOR SYSTEMS DIVISION ARGONNE NATIONAL LABORATORY

The Accelerator Systems Division (ASD) at Argonne National Laboratory is one of three divisions comprising the Advanced Photon Source (APS), the highest energy accelerator-based source of x-rays in the western hemisphere.

Argonne invites applicants for the position of Director of ASD to provide technical and scientific leadership for effective operations and future development of APS accelerator systems. ASD is responsible for the reliable and high performance operation of the APS accelerator complex, and ensuring that the APS remains at the forefront of hard x-ray science in both the near and long term.

A primary responsibility of the division is the day-to-day operation of the APS accelerator. ASD has approximately 100 people in groups responsible for the operations, maintenance and development of diagnostics, power supply systems, rf systems and undulator systems. The division also has the APS Accelerator Physics and Operations group which is responsible for control room operations and the analysis of operational data. In addition to these operational duties, ASD is responsible for all accelerator-based R&D at the APS, focusing on both near-term needs of the APS, and longer-term, fourth-generation facility upgrades, which could be Free Electron Laser or Energy Recovery Linac based.

This position requires an internationally recognized reputation in the field of accelerator science and technology, a relevant Ph.D., and 15+ years of relevant experience in research and management roles. The successful candidate should have demonstrated leadership and management abilities, and a proven track record in a combination of design, construction and operation of accelerator-based facilities. The candidate should also have a basic knowledge of beam dynamics and accelerator systems including diagnostics, power systems, rf and superconducting rf, and possess the ability to articulate a vision for accelerator R&D at the APS.

Argonne offers an excellent compensation and benefits package. Interested candidates should send curriculum vitae, list of publications and patents, professional references, and salary history to asdsearch@anl.gov.

Argonne National Laboratory is a multi-program laboratory managed by UChicago Argonne, LLC for the U.S. Department of Energy's Office of Science. Argonne's site is located about 25 miles southwest of Chicago on a beautiful 1,500-acre campus. For additional information, please refer to Argonne's home page at www.anl.gov.

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