

RECRUITMENT

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HIGH ENERGY PHYSICS

Postdoctoral Positions on DØ

The DØ group at U.C. Riverside has immediate openings for two postdoctoral physicists. The successful applicants will be based at Fermilab and will be expected to contribute to the operation of the Silicon Microstrip Tracker and the integration of the new Layer 0 into the tracker. In addition, a major role in data analysis is expected, in areas that match those of the UCR group. Experience with tracking detectors and reconstruction software are preferred but not essential. A Ph.D. in experimental high energy physics is required.

The UC Riverside group consists of three faculty (Robert Clare, John Ellison, Stephen Wimpenny), one research faculty (Ann Heinson), two postdocs, and two students. The group has made important contributions to the design and construction of the Silicon Microstrip Tracker and to the tracking and vertexing reconstruction software, and has played a leading role in analysis of DØ data in the areas of top quark and electroweak physics.

Interested persons should send the following application materials to **Prof. S.J. Wimpenny, Department of Physics, University of California, Riverside, CA 92521-0413, USA (e-mail: stephen.wimpenny@ucr.edu):**

- * Curriculum vitae,
- * Description of research experience,
- * Names and addresses of at least three referees

(The candidate should arrange to have the letters of recommendation sent directly to the address above.)



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

Director – High Energy Physics – Argonne National Laboratory

Argonne National Laboratory seeks applications from highly qualified candidates for the position as Director of High Energy Physics Division. Argonne is one of the preeminent multidisciplinary research facilities in the country, and is operated by the University of Chicago for the Department of Energy. With a staff of 75 people, including PhD scientists and technical and clerical support staff, the High Energy Physics Division has established programs in Experimental (CDF, ZEUS, ATLAS, MINOS), and Theoretical high energy physics, plus a unique program in Advanced Accelerator R&D. New initiatives include Linear Collider Detector R&D, research in Astrophysics and studies of Neutrino Oscillations. Argonne National Laboratory is pursuing a laboratory wide initiative of participation in building the Linear Collider.

The High Energy Physics Division Director will have responsibility for the research program of the entire division through long-range planning, preparation of initiatives, establishment of policy and priorities and interaction with funding agencies and with the broader academic and laboratory research communities. In addition, the Director will develop and maintain an excellent scientific staff through promotions and new hires and maintain environmental safety and health standards. The successful candidate should have a Ph.D. degree in particle physics, an internationally recognized research stature, 10+ years of relevant experience and demonstrated leadership and administrative abilities with a commitment to excellence in research.

Argonne offers an excellent compensation and benefits package. For full consideration, please apply by April 1, 2005. Send your resume and salary history to hepsearch@anl.gov.

Argonne is an equal opportunity employer, and we value diversity in our workforce.



Rheinische Friedrich-Wilhelms-Universität Bonn



in der Mathematisch-Naturwissenschaftlichen Fakultät ist am Physikalischen Institut eine

Professur (W3) für Experimentalphysik (Hochenergiephysik, Teilchenastrophysik)

(Nachfolge Professor Hilger) zum **1. April 2006** wieder zu besetzen.

Die Fachgruppe Physik/Astronomie will mit der Professur den Bonner Schwerpunkt Teilchenphysik unterstützen. Von Bewerberinnen und Bewerbern wird erwartet, dass sie in der Lehre die Experimentalphysik in der Breite vertreten können und wissenschaftlich in Konzeption, Entwicklung/Bau von Experimenten der Hochenergiephysik an Beschleunigern oder von Experimenten der Teilchenastrophysik sowie in der Durchführung und Auswertung solcher Experimente erfahren und international hervorragend ausgewiesen sind.

Die Einstellungs Voraussetzungen richten sich nach § 46 HG (NRW). Frauen werden nach Maßgabe des Landesgleichstellungsgesetzes bevorzugt berücksichtigt. Schwerbehinderte Bewerberinnen und Bewerber werden bei gleicher Qualifikation bevorzugt eingestellt.

Bewerbungen mit den üblichen Unterlagen werden bis zum **15. April 2005** erbeten an den Vorsitzenden der Fachgruppe Physik-Astronomie, Endericher Allee 11-13, 53115 Bonn.

Physicist Postdoctoral Fellow - ATLAS

The Physics Division of the Lawrence Berkeley National Laboratory (LBNL) is seeking a Postdoctoral Fellow to participate in the ATLAS Experiment at the Large Hadron Collider (LHC) at CERN. The ATLAS Group at LBNL has important roles in the silicon tracking detectors and in physics simulation. The successful applicant is expected to be involved in inner detector software, simulation studies, preparation for physics analysis, and later in the analysis of the first data from the LHC. This is a two-year term position with the possibility of renewal up to a total of five years.

To qualify, the candidate should have a PhD in Experimental High Energy Physics or equivalent experience and demonstrated strong potential for outstanding achievement as an independent researcher.

Interested applicants should submit via email a curriculum vitae, publication list, and three letters of recommendation to SDCheeseboro@lbl.gov. Applications should reference job number PH/017413/JCERN.

Questions related to job content and responsibilities should be directed to M. Gilchriese (MGGilchriese@lbl.gov). Applications are accepted until the position is filled. LBNL is an Affirmative Action/Equal Opportunity Employer committed to the development of a diverse workforce.





DESY is world-wide one of the leading accelerator centres exploring the structure of matter. The main research areas range from elementary particle physics over various applications of synchrotron radiation to the construction and use of X-ray lasers.

DESY operates the synchrotron radiation storage ring DORIS and a VUV Free Electron Laser for the research with photons. With the present projects PETRA III and the European X-FEL DESY will offer unique research opportunities.

The light sources in these machines are long magnetic multipole structures (undulators). We seek two

Physicists or Electrical Engineers (PhD)

for the design, assembly, and magnetic characterization of these devices as well as for further development of magnetic measurement techniques.

You have a university degree in Physics or Electrical Engineering preferably with a PhD degree. You have work experience in permanent magnet technology, 3D simulation studies and magnetic measurement methods. We expect capability of working in a team, practical skills and good command of English. If you are interested in this position, please send your complete application papers by indicating the code to our personnel department. For further information, please contact Dr. M. Tischer on +49 40/8998-2923.

The positions are limited for 3 years.

Salary and benefits are commensurate with public service organisations. DESY operates flexible work schemes, such as flexitime or part-time work. DESY is an equal opportunity, affirmative action employer and encourages applications from women. DESY has a Betriebskindergarten.

Deutsches Elektronen-Synchrotron DESY

member of the Helmholtz Association

code: 7/2005 • Notkestraße 85 • D-22603 Hamburg • Germany

Phone: +49 40/8998-3392 • www.desy.de

email: personal.abteilung@desy.de

Deadline for applicants: 21.03.2005



TENURE-TRACK ASSISTANT or ASSOCIATE PROFESSOR OF PHYSICS in Accelerator Physics Cornell University

We are seeking an outstanding individual for a tenure-track assistant or associate professor position in accelerator physics. In addition to teaching undergraduate and graduate courses, responsibilities will include supervision of graduate students and participation in the research program of the Laboratory for Elementary-Particle Physics. Currently based largely on the CESR storage ring, the research program has expanded to include the International Linear Collider and an Energy Recovery Linac for the production of synchrotron radiation. A PhD in physics with experience in accelerators or in elementary-particle physics is required. The position will be available in September 2005, or earlier by negotiation, with an initial appointment of three years. Please send an application and at least three letters of reference to

Search Committee Chair, Newman Laboratory,
Cornell University, Ithaca, NY 14853.

Applications should include a curriculum vitae, a publication list and a short summary of teaching and research experience. Electronic mail inquiries may be addressed to SEARCH@LEPP.CORNELL.EDU. Cornell is an equal opportunity/affirmative action employer.

Experimental Particle Physics ATLAS and Neutrino Experiments Argonne National Laboratory

Applications are invited for experimental postdoctoral fellow positions in the High Energy Physics Division at Argonne National Laboratory to work on the ATLAS experiment at the LHC or on long-baseline and reactor-based neutrino experiments, starting in summer 2005. The Argonne HEP Division's experimental particle physics program includes ATLAS, CDF, MINOS, STAR, ZEUS and Linear Collider detector development.

The Argonne Neutrino Group is seeking candidates with strong backgrounds in particle physics and with good software and analysis skills. The selected candidate would work on the MINOS and NOvA long-baseline neutrino oscillation experiments or on a future reactor experiment to measure the θ_{13} mass-mixing parameter. In early 2005, MINOS will begin taking data for definitive measurements of neutrino oscillation mechanisms and parameters in the region suggested by atmospheric neutrino observations. The Neutrino Group is also working on detector development for the NOvA off-axis experiment in Fermilab's NuMI neutrino beam and for reactor-based experiments at Braidwood in Illinois and Double-CHOOZ in France.

The Argonne ATLAS Group is seeking candidates with strong backgrounds in experimental particle physics detectors and analysis. The selected candidate would be expected to contribute both to commissioning and to physics analysis and would be required to spend a significant period at CERN. Knowledge of modern HEP software environments is desirable. The interests of the group cover a wide range of physics topics. However, as members of the ATLAS Tile Calorimeter subgroup, Argonne group members are expected to contribute to physics analyses in which this detector system is involved, namely jet reconstruction and studies of processes involving jets and photons. Commissioning of the tile calorimeter will begin in summer 2005 with LHC turn-on scheduled for 2007.

Postdoctoral appointments are one-year appointments with the possibility of renewal for up to three years. Interested candidates should have obtained a Ph.D. in experimental nuclear or high-energy physics.

Argonne provides an excellent compensation/benefits package. For consideration, please send a detailed resumé, salary history, and the names/addresses of three references through the Argonne website at <http://www.anl.gov/jobs> under postdoctoral job openings for Requisition HEPDSA HEP.

Argonne is an equal opportunity employer, and we value diversity in our workforce.



GSI Darmstadt is looking on behalf of its Magnet Technology Group for a

Physicist or Graduate Engineer (TU)

Ref. No.: 3440-05.5

to work on development and planning of cryogenic components (cryostats, distribution systems) of future accelerators at GSI within the framework of the FAIR project.

The principal subjects of the work are:

- Design of cryogenic components
- Analysis of cryogenic losses
- Heat transfer and thermal transition calculations

Expertise in at least one of the following areas is expected:

- Cryogenics
- Process engineering
- Structural mechanics
- Superconducting magnet technology

Training opportunities will be available.

Proficiency in the English language, both written and spoken is required.

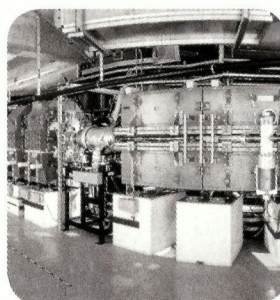
The position is limited to a term of 3 years with the possible perspective of a permanent position, pursuant to qualifications and competence.

GSI is an equal opportunity employer and encourages women especially to apply for the positions. Remuneration according to pay scale grouping „BAT“ for federal employees in Germany. Disabled applicants will be given preference over other applicants with comparable qualifications.

You will find further information concerning GSI on <http://www.gsi.de>.

Applications quoting the Ref. No. and including CV, publication list and two letters of reference should be sent by **March 18, 2005** to:

GSI
Darmstadt



The National Laboratory for Heavy-Ion Research, a member institute of the Helmholtz-Society of German Research Centres

Gesellschaft für
Schwerionenforschung mbH
Personalabteilung
Kennziffer 3440-05.5
Planckstraße 1
D-64291 Darmstadt

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CERN
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Duke UNIVERSITY

Postdoctoral Position in Experimental Neutrino Physics

The position will involve work on Super-Kamiokande, along with the upcoming T2K (Tokai to Kamioka) experiment.

For inquiries, contact Professor Kate Scholberg at schol@phy.duke.edu.

Candidates must have a Ph.D. in experimental particle physics. Applicants should send CV, statement of interest and have three letters of reference sent to:

Neutrino Postdoc Search c/o Manuela Damian, Department of Physics, Box 90305, Duke University, Durham, NC, 27708.

Duke University is a Equal Opportunity/Affirmative Action Employer and particularly encourages women and minorities to apply.

Application deadline: April 30, 2005. Review of applications will begin immediately.

Access **JobsWatch**



cerncourier.com

RESEARCH ASSOCIATE

Superconducting RF for Accelerators

Cornell University

The Laboratory for Elementary-Particle Physics at Cornell University has an opening for a Research Associate to work on the design, development, installation and operation of the Superconducting RF systems for a variety of Accelerators: energy recovery linac and prototype; the Cornell electron-positron colliding beam facility, CESR; and the International Linear Collider. R&D at Cornell is in progress on basic SRF issues related to high gradient, high Q and new materials. Major components under development are superconducting cavities, high power input couplers, high power windows, higher order mode loads, cryostat, refrigeration, RF power distribution, instrumentation and controls. Research Associates generally participate in several of these activities.

This is a 3-year appointment with the expectation of renewal, subject to mutual satisfaction, and the availability of funds under our NSF contract. A PhD in Physics/Engineering is required with related experience in a combination of the areas outlined above.

Please send a cover letter, including curriculum vitae and a publications list to

Dr. H. Padamsee, Newman Laboratory,
Cornell University, Ithaca, NY 14853,

and arrange for three letters of recommendation to be sent. Email correspondence may be directed to search@lepp.cornell.edu.

Cornell University is an equal opportunity/affirmative action employer.



DESY is world-wide one of the leading accelerator centres exploring the structure of matter. The main research areas range from elementary particle physics over various applications of synchrotron radiation to the construction and use of X-ray lasers.

Particle accelerators generate highly intense radiation for many innovative applications. After the reconstruction of the PETRA storage ring into a 3rd generation synchrotron radiation source and the construction of the free electron lasers (VUV-FEL and XFEL) DESY will be one of the most interesting places for research with photons world-wide. These new source will open fascinating possibilities for research at nano scales by using extremely focussed photon beams and by exploiting the coherence properties of the sources. We are looking for a

Physicist (PhD)

for the development of innovative X-ray optics. The job profile covers the development of X-ray optical elements and its prototype development.

You are an expert in the field of X-ray optics and diffraction physics and you are experienced in designing and operating beamlines at modern synchrotron radiation sources. It is expected that you will be open for innovative solutions. You are expected to take the initiative in a team oriented of the working environment and you have demonstrated leadership capabilities. If you are interested in this position, please send your complete application papers by indicating the code to our personnel department. For further information, please contact Dr. Weckert on +49 40/8998-4509.

Salary and benefits are commensurate with public service organisations. DESY operates flexible work schemes, such as flexitime or part-time work. DESY is an equal opportunity, affirmative action employer and encourages applications from women. DESY has a Betriebskindergarten.

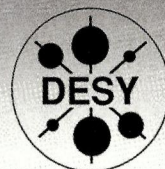
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Phone: +49 40/8998-3392 • www.desy.de

email: personal.abteilung@desy.de

Deadline for applicants: 21.03.2005



DESY is world-wide one of the leading accelerator centres exploring the structure of matter. The main research areas range from elementary particle physics over various applications of synchrotron radiation to the construction and use of X-ray lasers.

Particle accelerators produce high intensive radiation for most diverse, innovative applications. By the planned upgrade of the PETRA storage ring into a 3rd generation synchrotron light source and the construction of the free electron lasers (VUV-FEL and XFEL) DESY will take up an international top position in future research with photons. These novel sources impose high demands on photon detection (multi-element systems with submicrosecond time resolution, high spatial resolution and high quantum efficiency). We are looking for a

Physicist (PhD)

with marked experience record in detector R&D for a corresponding development program in the frame work of a new detector group. The job profile covers definition and elaboration of detector requirements, detector development and tests as well as their actual implementation and application in photon experiments.

Strong and broad-spread knowledge in detector development is thus indispensable. Ideally, the successful candidate proves experience in the application of X-ray detectors in experiments with synchrotron radiation. He or she will show capability of working in a team and readiness for coordination of the collaboration with external research groups. If you are interested in this position, please send your complete application papers by indicating the code to our personnel department. For further information, please contact Dr. G. Grübel on +49 40/8998-2484.

Salary and benefits are commensurate with public service organisations. DESY operates flexible work schemes, such as flexitime or part-time work. DESY is an equal opportunity, affirmative action employer and encourages applications from women. DESY has a Betriebskindergarten.

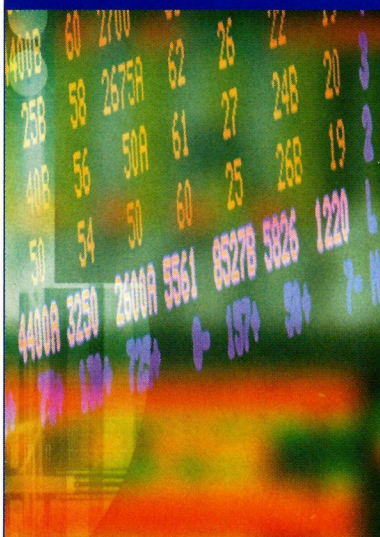
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Deadline for applicants: 21.03.2005



Are you looking for highly numerate, computer-literate, practical problem solvers with a wide technical knowledge?

Yes? Then you need *CERN Courier*.

The use of physical methods and applied mathematics as tools for understanding the financial markets is widely known in the physics community. Practical information is combined with more complex aspects of physics in finance to bring new and interesting results to economists, mathematicians and physicists working in financial institutions, as well as academics.

For detailed information about how *CERN Courier* can assist you with suitable advertising options, including magazine advertising and online exposure, please contact Jayne Orsborn.

E-mail: jayne.orsborn@iop.org; Tel: +44 117 930 1027.



DESY is world-wide one of the leading accelerator centres exploring the structure of matter. The main research areas range from elementary particle physics over various applications of synchrotron radiation to the construction and use of X-ray lasers.

For the particle physics programme at HERA – experiments H1, ZEUS and HERMES – and the preparation of the international linear collider and its experiments several

DESY Fellowships

are announced.

The place of work is Hamburg or Zeuthen. Young scientists who have completed their PhD and are younger than 33 years are invited to submit their application including a resume and the usual documents (curriculum vitae, list of publications and copies of university degree) and should arrange for three letters of recommendation to be sent to the personnel department of DESY. The DESY-Fellowships are awarded for a duration of 2 years with the possibility for prolongation by one additional year.

Salary and benefits are commensurate with public service organisations. DESY operates flexible work schemes, such as flexitime or part-time work. DESY is an equal opportunity, affirmative action employer and encourages applications from women. DESY has a Betriebskindergarten.

Deutsches Elektronen-Synchrotron DESY

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Phone: +49 40/8998-3392 • www.desy.de

email: personal.abteilung@desy.de

Deadline for applicants: 31.03.2005

UNIVERSITÄT WÜRZBURG

Am Institut für Theoretische Physik und Astrophysik der Universität Würzburg ist zum 01.04.2006 eine

Professur (W2)

im Beamtenverhältnis auf Lebenszeit für Theoretische Physik wieder zu besetzen. Gesucht wird eine Physikerin oder ein Physiker mit dem Arbeitsgebiet **Theoretische Elementarteilchenphysik**, die/der die vorhandenen Aktivitäten sinnvoll ergänzt. Zu den Aufgaben gehört, das Fachgebiet in Forschung und Lehre zu vertreten. Erwartet werden die Beteiligung an den Lehraufgaben der Fakultät im Fach Theoretische Physik und die Zusammenarbeit mit anderen Arbeitsgruppen an der Universität Würzburg.

Einstellungsvoraussetzungen sind abgeschlossenes Hochschulstudium, pädagogische Eignung, Promotion und Habilitation oder gleichwertige wissenschaftliche Leistungen. Bewerber dürfen das 52. Lebensjahr zum Zeitpunkt der Ernennung noch nicht vollendet haben (Ausnahmen sind in dringenden Fällen gem. Art. 12 Abs. 3 Satz 2 Bayerisches Hochschul-Lehrergesetz möglich). Die Universität strebt eine Erhöhung des Anteils der Frauen am wissenschaftlichen Personal an und fordert nachdrücklich qualifizierte Wissenschaftlerinnen auf, sich zu bewerben. Schwerbehinderte Bewerberinnen oder Bewerber werden bei ansonsten im Wesentlichen gleicher Eignung bevorzugt eingestellt.

Bewerbungen sind mit den üblichen Unterlagen (Lebenslauf, wissenschaftlicher Werdegang, Zeugnisse, Urkunden, Schriftenverzeichnis und Verzeichnis der Lehrtätigkeit) **bis zum 13.04.2005** einzureichen beim Dekan der Fakultät für Physik und Astronomie der Universität Würzburg, Am Hubland, D-97074 Würzburg.



The University of Sheffield

Lecturer in Experimental Particle Physics - 2 Posts

Department of Physics & Astronomy

Salary: from £27,900 per annum

As part of a major initiative the University of Sheffield is seeking to appoint two new Lecturers in Experimental Particle Physics to play leading roles in the ATLAS experiment at CERN. The University of Sheffield ATLAS group is currently contributing significantly to construction and commissioning of the SCT end-cap tracking detectors, development of high level event reconstruction software and preparations for exploitation of ATLAS data. Members of the group hold leadership positions in the ATLAS SUSY Working Group and Radiation Task Force, as well as in offline and Grid computing. The group also has a strong interest in Standard Model physics and experiment calibration using Standard Model channels. Successful applicants will possess a PhD or equivalent in particle physics or a related discipline. Applications from candidates with an interest in hardware work and/or preparations for physics analysis are particularly welcome.

Closing Date: 15 March 2005 Ref. R3588

Committed to equality through diversity

For full post details/application pack visit:

www.sheffield.ac.uk/jobs or

email: jobs@sheffield.ac.uk

tel: 0114 222 1631 (24hr)

Please quote Ref. in all enquiries

POSTDOCTORAL RESEARCH POSITION IN EXPERIMENTAL HIGH ENERGY PHYSICS UNIVERSITY OF CALIFORNIA, RIVERSIDE

The Department of Physics at the University of California, Riverside, invites applicants for a postdoctoral research position to work with the high energy physics group on the CMS experiment at CERN.

At the University of California, Riverside, we are carrying out a multi-faceted program of detector development and production and preparation for physics in the CMS experiment. We are seeking a postdoctoral researcher to work on the CMS Silicon Tracker in California. We are working on silicon module production in collaboration with the University of California, Santa Barbara, and setting up a module testing and repair facility at U.C. Riverside.

The postdoctoral researcher would also work on preparation for physics with CMS.

Applicants should have experience with high energy physics detectors and testing software, preferably with silicon detectors. Candidates must have a Ph.D. degree in high energy physics.

Applications, including vitae, list of publications, and three reference letters, should be sent to:

**Professor Gail G. Hanson, Department of Physics
University of California, Riverside, CA 92521-0413, U.S.A.
or by e-mail to Gail.Hanson@ucr.edu or Gail.Hanson@cern.ch**

The position will be filled as soon as an appropriate candidate is identified.



UCR
UNIVERSITY OF CALIFORNIA, RIVERSIDE

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Physics World April issue

Special focus on careers in optics and photonics



Highly qualified and experienced optics and photonics professionals seek new opportunities in your company.

Are you aware that nearly 10% of the *Physics World* readership is in the optics and photonics industries?

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- Promotional packages are available with advertisement sizes to suit you, and to meet all budgets and urgent deadlines.
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Bookings received before 4 March will receive a 15% discount.

PhysicsWorld

To discuss how *Physics World* can generate the best response for your recruitment campaign, or if you have never realized the potential of *Physics World* before and would like to learn more, contact:
Jayne Orsborn Tel: +44 (0)117 930 1027 E-mail: sales.physicsworld@iop.org

Institute of **Physics** PUBLISHING



UNIVERSITÉ DE GENÈVE

The **FACULTY OF SCIENCES** of the University of Geneva, Switzerland, has an opening for a position as

Full or Associate Professor

Experimental particle physics
(Professeur ordinaire ou adjoint)

RESPONSIBILITIES : This full-time appointment includes:

- teaching responsibilities (6 hours per week)
- research responsibilities as leader of a international research group in elementary particle physics.
- administrative tasks at the department and university level.

ACADEMIC QUALIFICATION: Ph.D. or equivalent. Appropriate teaching and research experience.

STARTING DATE : October 1st 2006 or as agreed.

Applications, including curriculum vitae, a list of publications and a short research plan should be sent before 1st June 2005, to the Dean of the Faculty of Sciences, 30 Quai Ernest-Ansermet, CH-1211 Geneva 4, Switzerland, where further information concerning the job description and working conditions may be obtained.

Female candidates are particularly welcomed.

The Future Begins With Us

RWTH AACHEN UNIVERSITY

With 30,000 students, 10,000 employees and its emphasis on innovative research, RWTH Aachen University is one of the leading universities of technology in Europe. Its teaching and research are characterised by a distinctly international, practice-oriented and interdisciplinary approach.

Full Professor (W2) in Experimental Physics

(Successor to Univ.Prof. Dr. Joachim Mnich)

**Faculty of Mathematics, Computer Science and
Natural Sciences**

We are seeking qualified applicants for teaching and research in the area of Experimental Physics with special emphasis in the area of Astroparticle Physics and/or High Energy Physics. Cooperations with existing groups in Experimental Particle Physics, Astroparticle Physics and Theoretical Physics are expected. The appointment can begin on January 1st, 2006.

Teaching obligations comprise courses for physics students (lectures, exercises, seminars, advanced laboratory courses) and for students of other disciplines. In addition we expect a participation in our graduate school for doctoral students.

You should have a Ph.D. and additional outstanding academic achievements which were performed within the framework of a junior professorship, Habilitation (post – doctoral lecturing qualification), a scientific employment at a university research institution, in economy, administration or any other social field. Didactic skills and university-level teaching skills are expected as well. Applicants should be willing to learn German.

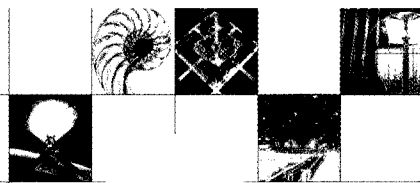
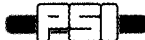
Please send a cover letter stating research aims and a CV to:
An den Dekan der Fakultät für Mathematik, Informatik und
Naturwissenschaften der RWTH Aachen, Prof. Dr. W. Thomas,
Templergraben 55, 52062 Aachen.

The deadline for applications is April 15th, 2005.

Employment equity is one of our aims.

We welcome applications from persons with disabilities.

PAUL SCHERRER INSTITUT



The Paul Scherrer Institut is a centre for multi-disciplinary research and one of the world's leading user laboratories. With its 1200 employees it belongs as an autonomous institution to the Swiss ETH domain and concentrates its activities on solid-state research and material sciences, elementary particle and astrophysics, energy and environmental research as well as on biology and medicine.

Within the European collaboration for the "Next Linear Collider" (EUROTeV) PSI is in charge of the conceptual design of a bunch compressor system and to a path length tuning chicane to correct the longitudinal position of the beam.

For those beam dynamic studies, we advertise an

Accelerator Physicist Post doctoral Position

Your tasks

- Conceptual design of a bunch compressor chicane suitable for a multi TeV collider and to a path length tuning chicane to correct the longitudinal jitter of the beam
- Optimisation of the basic parameters of those systems with respect to Coherent Synchrotron Radiation effects, microbunching instabilities and dynamic imperfections
- You will work within a motivated team on a subject with a high impact in the accelerator field and frequent exchanges will be established with the International Linear Collider design groups, as for example with CERN (Geneva) and DESY (Hamburg)

Your profile

You have a PhD in physics or electroengineering. An experience in the field of electron accelerator and in particular a background in beam dynamics is required. Furthermore some experience in the utilization of the numerical tools used for particle dynamics is strongly recommended. Emphasis is placed on your ability to work in a team efficiently. This position will offer great opportunities to start your research career in an exciting and multidisciplinary environment.

We are looking forward to your application.

Dr. Marco Pedrozzi will be pleased to answer any questions concerning this position. His phone number is: +41 (0)56 310 32 42, E-Mail: marco.pedrozzi@psi.ch.

Please send your application to Paul Scherrer Institut, Human Resources, Mr. Thomas Erb, ref. code 8514, 5232 Villigen PSI, Switzerland.

Further jobs: www.psi.ch

POSTDOCTORAL RESEARCH POSITION IN EXPERIMENTAL HIGH ENERGY PHYSICS UNIVERSITY OF CALIFORNIA, RIVERSIDE

The Department of Physics at the University of California, Riverside, invites applicants for a postdoctoral research position to work with the high energy physics group on the CMS experiment at CERN.

At the University of California, Riverside, we are carrying out a multi-faceted program of detector development and production and preparation for physics in the CMS experiment. We are seeking a postdoctoral researcher to work on CMS tracking software, with an emphasis on physics, based at U.C. Riverside. The postdoctoral researcher would also work on studies for the CMS Physics TDR and serve as a leader and resource for others in the U.S. who want to work on tracking software. The postdoctoral researcher would make frequent trips to CERN and U.S. locations for meetings and consultations.

Applicants should have experience with high energy physics analysis and software. Applicants who are already knowledgeable about CMS software are preferred. Candidates must have a Ph.D. degree in high energy physics. Applications, including vitae, list of publications, and three reference letters, should be sent to:

**Professor Gail G. Hanson, Department of Physics
University of California, Riverside, CA 92521-0413, U.S.A.
or by e-mail to Gail.Hanson@ucr.edu or Gail.Hanson@cern.ch**

The position will be filled as soon as an appropriate candidate is identified.



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



ORGANISATION EUROPÉENNE POUR LA RECHERCHE
NUCLÉAIRE
EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

Laboratoire Européen pour la Physique des Particules
European Laboratory for Particle Physics

**The Physics Department invites
applicants for a long term position of a**

PHYSICIST

**in experimental particle physics
research.**

Candidates are expected to have a PhD in particle physics and an excellent record of successful work with typically 5-10 years of post-doctoral experience in this field. Further requirements include: a high capacity for innovation and leadership; competence in detection techniques and in the use of on-line and off-line software; potential for making a significant medium to long-term contribution to the scientific programme of the Organization. Very good communication skills and an aptitude for team work.

The position is of a long-term nature and offers a competitive remuneration package and excellent career prospects.

The selected candidate will take a leading role in all aspects of particle physics experiments, involving the conception and design of experiments, the development and operation of detectors and the analysis of data. He/she will also coordinate or make important contributions to studies, projects or committee work and represent the Organization at conferences, workshops, or in other research laboratories and institutions.

Interested candidates are asked to submit an application form (including the names of two referees), along with a letter of motivation, curriculum vitae and a list of their ten most significant publications using the CERN e-recruitment system (<http://ert.cern.ch>) by 10 May 2005. This position is published under reference PH-DI-2005-36-FT.

Preference will be given to nationals of CERN Member States*.

CERN is an equal opportunity employer and encourages both men and women with the relevant qualifications to apply.

* AT, BE, BG, CH, CZ, DE, DK, ES, FI, FR, GR, HU, IT, NL, NO, PL, PT, SE, SK, UK

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