

RECRUTEMENT

Pour tous renseignements sur des publicités dans le *CERN Courier*, les dates de publication ou les dates limites, veuillez nous contacter:
Institute of Physics Publishing, Dirac House, Temple Back, Bristol BS1 6BE, UK. Tel. +44 117 930 1026. Fax +44 117 930 1178.
Tarifs par centimètre/colonne: monochrome £36, 2-couleur £38, 4-couleur £40.



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

Faculty Positions in Signal Processing / Information Systems (Joint Appointment with IDIAP)



The Swiss Federal Institute of Technology in Lausanne and the Dalle Molle Institute for Perceptual Artificial Intelligence (IDIAP) in Martigny invite applications for two **"Tenure-Track" Assistant Professor positions** for the Signal Processing Institute of the School of Engineering.

The ideal candidates should demonstrate excellence in research and teaching and have a strong background in one or several of the following areas: signal processing, statistical machine learning, system theory, communication theory, speech processing, image and image sequence processing, multimodal systems, multimedia communications and array processing.

The successful candidates are expected to participate in EPFL's and IDIAP's research initiatives in signal processing, and in particular on Interactive Multimodal Information Management (IM2, cf. <http://www.im2.ch/>) in the new National Center of Competence in Research (NCCR), which investigates issues related to multimedia data and document analysis, indexing, information retrieval and multimodal interactions.

Teaching responsibilities will typically include basic signal processing courses, as well as graduate and postgraduate level courses in the above research fields.

Assistant Professors with "tenure-track" are part of the Faculty, enjoy full independence, have a competitive salary and receive support in terms of start-up packages (research assistants, lab equipment, running costs and secretarial support).



Applications, including CV with publications list, brief statement of research interests (no more than three pages) and the name, address and e-mail of at least five reference persons, should be sent **no later than 14 June 2002** to:

Prof. Michel Declerc, EPFL
Dean of the School of Engineering
Chairman of the Search Committee
CH-1015 Lausanne, Switzerland

EPFL:
<http://itswww.epfl.ch/>
Prof. Murat Kunt
murat.kunt@epfl.ch

IDIAP:
<http://www.idiap.ch/>
Prof. Hervé Bourlard
bourlard@idiap.ch



TENURE/TENURE-TRACK PROFESSORIAL POSITION IN

Experimental Elementary Particle Physics

We are seeking an outstanding individual for a professorial position in experimental elementary particle physics at the assistant, associate or full professor level. In addition to teaching undergraduate and graduate courses, responsibilities will include supervision of graduate students and participation in the research program of the Laboratory of Nuclear Studies, which is based on the CESR e^+e^- storage ring and the CLEO experiment, with future involvement in the international linear collider.

CLEO provides a unique opportunity for high precision measurements in the Y family, at the J/ψ , and near the DD and $D_s D_s$ production thresholds. The Laboratory envisions a substantial role in both the particle physics and accelerator development of the linear collider. A PhD in Physics and experience in experimental elementary particle physics is required. The position will be available in September 2002.

Please send an application and at least three letters of recommendation to

**Prof. Ritchie Patterson, 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 submissions and mail inquiries may be addressed to
search@lns.cornell.edu

Cornell is an equal opportunity/affirmative action employer.



RESEARCH ASSOCIATE POSITION EXPERIMENTAL PARTICLE PHYSICS

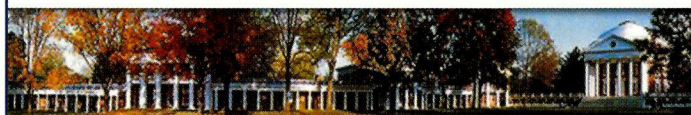
The Particle Physics group at the University of Virginia (UVA) is seeking to fill a Research Associate position to work on experiments investigating CP violation. We are presently engaged in two Fermilab efforts: HyperCP, which finished data taking in 2000 and is in the analysis stage, and CKM, which was approved in 2001 and is in the design stage. HyperCP is searching for CP violation in the decays of hyperons and charged kaons as well as performing searches for rare and forbidden processes. One of us (Dukes) is co-spokesperson of the experiment. The goal of CKM is to precisely measure the CKM parameter V_{td} and hence test the hypothesis that CKM matrix parameters are the sole source of CP violation. The research associate is expected to take a leadership role on CKM. He or she can also participate in the HyperCP analysis.

The position is immediately available and will be filled as soon as a suitable candidate is found. Applications including curriculum vitae and three letters of reference should be sent to

**Prof. Craig Dukes, Department of Physics, University of Virginia,
P.O. Box 400714, Charlottesville, VA 22904-4714, USA**

or via e-mail to craigdukes@virginia.edu

The University of Virginia is an equal opportunity/affirmative action employer.
Women and minorities are strongly encouraged to apply.



Deutsches Elektronen-Synchrotron RF-SUPERCONDUCTIVITY



DESY is one of the large accelerator centers worldwide. The research spectrum reaches from elementary particle physics and solid state physics up to molecular biology and medicine.

In the framework of an international collaboration a Free-Electron-Laser is set up at DESY for wavelengths far below the visible. The project is based on the superconducting TESLA test facility, which supplies the technological foundation for a future linear accelerator for electron-positron collision experiments. Within this framework we are searching for a

Scientist or Qualified Engineer (m/f)

as soon as possible for a permanent position.

You will be in charge of radio frequency (RF) installations for superconducting accelerators and have responsibility for the design, fabrication and operation of RF components for accelerating systems, such as cavities and high power couplers. Furthermore you will take care for and instruct technical personnel. Participation in accelerator shifts is part of this position.

Applicants should have a Physics degree or Diploma-Engineer, preferably in the field of RF technique, experience in the application of software programs (Mafia, HFSS, etc.) for the design of RF components and preferably experience with the design, fabrication and operation of complex RF installations for accelerators. Experience in the instruction and coaching of technical personnel is required.

Please send your letters of application including C.V., list of publications and the names of three referees to our personnel department.

The salary and the social benefits correspond to those in public services (BAT IIa). DESY is open for flexi-time and other modern models for working hours.

Handicapped persons will be given preference to other equally qualified applicants.

DESY is committed to equal opportunities and therefore welcomes applications of qualified women.

Deutsches Elektronen-Synchrotron DESY

code: 16/2002 • Notkestrasse 85 • 22603 Hamburg • Germany
Phone ++49 (0)40/8998-3272 or -2515 • www.desy.de
email: personal.abteilung@desy.de

Deadline: 15.04.2002

Stanford Linear Accelerator Center (SLAC), a high-energy research facility dedicated to performing world-class research and advancing the critical technologies necessary to understand the basic nature of matter, has the following opportunity available:

Experimental Physicist/ Computing Coordinator

You will join the BABAR physics program, which involves large data sets and parallel sophisticated analyses, leading and coordinating our ongoing development activities, including offline/online software, offline/computing hardware and tools and upgrades from PEP luminosity improvements. As a member of the BABAR management team you will participate in making decisions on the future of the collaboration. Under your direction will be a substantial staff of direct/indirect reportees and participants at international computing sites. Best candidates have a Ph.D. in Particle Physics; substantial experience in physics analysis/computing for particle experiments — background in online trigger and data acquisition systems/software, offline reconstruction/simulation/analysis systems and software, leadership of a physics group/subgroup or online computer group management is highly desired; and excellent communication and presentation skills.

SLAC offers competitive compensation and excellent benefits. Send your resume to **SLAC, Employment Dept./Job #22885, 2575 Sand Hill Road, M/S 11, Menlo Park CA 94025; Fax: 650-926-8699; E-mail: employment@SLAC.stanford.edu.** EOE



OHIO UNIVERSITY

POST-DOCTORAL RESEARCH ASSOCIATE IN EXPERIMENTAL NUCLEAR PHYSICS

The Department of Physics at Ohio University invites applications for a postdoctoral researcher in experimental nuclear physics. The position is renewable for up to two years with the starting date preferably in early 2002. The position will support new and ongoing physics initiatives at Jefferson Lab. Research activities will include significant involvement in detector design and development for the Hall D meson spectroscopy project, as well as studies of electromagnetic production of strangeness using the Hall B CLAS spectrometer. The researcher will be stationed at Jefferson Lab.

Applicants must have a Ph.D. in experimental nuclear or high-energy physics and experience working with hardware and software for accelerator-based experiments. Qualified candidates should send their CV, a description of research interests, details of hardware and design experience, and three letters of reference to:

**Prof. Daniel S. Carman, Department of Physics,
Ohio University, Athens, OH 45701,
Phone: (740)-593-2964 email: carman@ohio.edu**

Ohio University is an Affirmative Action/Equal Opportunity Employer

NEED TO RECRUIT?

Email Debra Wills: debra.wills@iop.org

POSITIONS IN ACCELERATOR PHYSICS AT



The National Superconducting Cyclotron Laboratory (NSCL) at Michigan State University is seeking several highly qualified accelerator physicists or engineers with a strong background in areas related to beam dynamics and superconducting RF technology.

The successful candidates would join the ongoing design effort for an advanced Rare Isotope Accelerator (RIA) facility recommended by the DOE/NSF Nuclear Science Advisory Committee (NSAC) as the highest priority for new construction. Career opportunities exist in several areas, including:

Particle Beam Dynamics: Of particular interest are the areas of beam transport design and linac lattice evaluation.

Radio-Frequency Quadrupole (RFQ): Of particular interest are RFQ designs appropriate for heavy-ion acceleration systems.

RF Systems: Candidates familiar with several facets of RF Systems design are required, e.g., superconducting cavity characterization by utilization of computer codes such as MAFIA and RF system design including appropriate coupling and stabilizing feedback systems appropriate for superconducting cavities.

Depending on the successful applicants' qualifications, appointments will be made at the Research Associate level or at one of three ranks in the NSCL Continuing Appointment System

(see: <http://www.msu.edu/unit/facrecds/policy/nscl01.htm>).

Interested individuals should send a CV and arrange for three letters of reference to be sent directly to

Professor Richard York,
Associate Director for Accelerators,
National Superconducting Cyclotron Laboratory,
Michigan State University,
East Lansing, MI 48824-1321.

For more information, see our website at
<http://www.nscl.msu.edu>

MSU is an equal opportunity/affirmative action institution.



FACULTY POSITIONS IN ACCELERATOR PHYSICS AT



The National Superconducting Cyclotron Laboratory (NSCL) at Michigan State University (MSU) is seeking outstanding candidates to fill a tenure-track position in accelerator physics. Applicants with strong interests in contributing to the ongoing RIA design efforts and similar accelerator-based projects will be given the greatest priority. RIA is the highest priority recommendation for new construction in the new Long Range Plan for Nuclear Science prepared by the DOE/NSF Nuclear Science Advisory Committee (NSAC).

The successful candidate should provide a significant increase in the scope and depth of the accelerator physics program, play a leadership role in developing future facility upgrade options, and contribute to the accelerator physics graduate education program at MSU.

The NSCL is the premier rare isotope facility in the U.S. for the next decade having recently completed a facility upgrade that will increase the intensity of rare isotopes by several orders of magnitude. The NSCL has the tradition of close interaction between groups providing an ideal mix of cutting-edge technical infrastructure and an intellectually stimulating open academic environment.

The accelerator physics group is comprised of 3 tenured faculty and 7 professional scientific staff. Accelerator physics R&D has strong infrastructure support from experienced design and manufacturing groups. A program of R&D in superconducting rf technology has been initiated with requisite facilities in place.

Depending upon the qualifications of the successful applicant, the position can be filled at the assistant, associate, or full professor level. Applicants please send a resume, including a list of publications, and the names and addresses of at least three references directly to

Professor Richard York,
Associate Director for Accelerators,
National Superconducting Cyclotron
Laboratory,
Michigan State University,
East Lansing, MI 48824-1321.

For more information, see our website at
<http://www.nscl.msu.edu>

MSU is an equal opportunity/affirmative action institution.



Rijksuniversiteit Groningen Full Professor in Theoretical Physics at the Nuclear Physics Accelerator Institute (KVI)

we are looking for:

An enthusiastic and inspiring scientist of international stature who is willing to develop a strong research program, to head a theoretical group, and to interact with his/her colleagues active in the research programs "Nuclear structure and its implications for Astrophysics" "Interacting Hadrons" and "Trapped Radioactive Isotopes, Micro-laboratories for Fundamental Physics" (TRIUMF).

we offer:

- The possibility to perform top research in nuclear and hadronic physics at an institute that is recognized by the EU as a "Large Scale Facility"
- the position to lead a theoretical group at the KVI
- the stimulating atmosphere to interact with experimental groups active in the field of nuclear and hadronic physics,
- and a full professor salary (hoogleraar A), with good terms of employment.

Women are strongly encouraged to apply for this position. More detailed information can be obtained from the Chairman of the selection committee,

Prof. Dr. M.N. Harakeh, director KVI, tel: (+31)-50-3633554,
email: Harakeh@KVI.NL (see also: <http://www.kvi.nl>). Also those who would like to draw attention to qualified candidates are asked to contact the chairman of the selection committee.

Please send your application before April 15th 2002, together with three letters of reference to the following address;

Ms. A.M. van der Woude, Personnel Manager, KVI,
Zernikelaan 25, NL 9747 AA Groningen
or email pf@kvi.nl



Postdoctoral Position in Experimental Particle Physics

A University of Wisconsin-Madison research group on the BaBar experiment at SLAC seeks outstanding applicants for one or more positions of postdoctoral Research Associate. Applicants should have a Ph.D. in high energy physics or expect a Ph.D. degree in the near future. In addition, applications are expected to have significant research experience in the area of analysis.

The successful candidate will be based at SLAC and participate in the measurement of the CP asymmetry in B decays or rare decays in the B system.

Please send a full CV and three letters of recommendation to the following address (preferably by e-mail or by fax):

Prof. Sau Lan Wu
CERN, PPE Division
Bldg. 32, R-A05
CH-1217 Geneva 23
Switzerland

wu@wisconsin.cern.ch

Tel: (4122) 767-7171, Fax: (4122) 782-8395

University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.



The **Deutsche Elektronen-Synchrotron DESY** in Hamburg and Zeuthen, member of the Hermann von Helmholtz-Gemeinschaft Deutscher Forschungszentren, is a national centre of basic research with 1,400 employees and more than 3,000 scientific guests from Germany and foreign countries per year. The accelerators in operation are dedicated to particle physics and research with synchrotron radiation.

The Theory Group at Zeuthen has an opening of a position for a

Theoretical Physicist in Elementary Particle Phenomenology

The position is limited to three years, with the possibility of later tenure.

The candidate should be highly qualified and take an active role in research in Quantum Chromodynamics at high energies and virtualities, with focus on higher order calculations.

Applicants should have a Ph.D. in physics, several years of experience in theoretical elementary particle physics and an established record of research in quantum field theory, especially QCD at high energies. The candidate shall have experience in elementary particle phenomenology, perturbation theory in higher orders, numerical methods and Monte Carlo simulation. Close cooperation with the experimental groups and excellent communication skills are essential. More information on the position is given by Johannes Bluemlein at desy.de.

The salary and the social benefits correspond to those in German public services (BAT-O Ib).

Deadline for applications: 31.03.2002

Handicapped applicants will be given preference in case of equal qualification.

DESY encourages especially qualified women to apply.

Please send your application documents, including the list of publications and 3 Letters of Reference, to:

DEUTSCHES ELEKTRONEN-SYNCHROTRON DESY
Personalabteilung, Chiffre 04/2002
Platanenallee 6, D-15738 Zeuthen, Germany
Tel.: +49(0)33762-770 / www-zeuthen.desy.de

POSTDOCTORAL FELLOWSHIP ATLAS Group

The Physics Division of the Lawrence Berkeley National Laboratory plays a major role in the silicon strip detector system for the ATLAS Experiment at the Large Hadron Collider at CERN. To support this work, we seek a postdoctoral candidate for a 2-year term position with possibility of renewal.

Initial work will be on the assembly and testing of silicon strip modules at Berkeley Lab. The successful candidate will also have the opportunity to be involved in data analysis from one of the ongoing experiments with Berkeley Lab participation. Required qualifications include a PhD in Experimental High Energy Physics and demonstrated strong potential for outstanding achievement as an independent researcher. Experience with silicon detector systems or other complex electronics/detector systems is preferred.

Candidates should submit an application with CV and 3 letters of recommendation via e-mail to gensciemployment@lbl.gov (no attachments), or mail to Lawrence Berkeley National Laboratory, One Cyclotron Road, MS: 50-4037, Berkeley, CA 94720. Applications should reference job number PHAT/014489/ICERN. For more information visit: <http://www.lbl.gov/>. Berkeley Lab is an Affirmative Action/Equal Opportunity Employer committed to the development of a diverse workforce.



PAUL SCHERRER INSTITUT

research for the future

Electronic Engineer

Radio-Frequency group of the
Swiss Light Source (SLS)

Work Tasks

- Develop, realize and test high frequency regulation systems for the PSI particle accelerator facilities.
- Contribute to the maintenance and upgrading of the existing Radio-Frequency systems.

Your Profile

Candidates will possess a degree in electrical engineering and have a background in regulation systems with practical experience in micro-controllers, processors and DSPs. You should have the ability to integrate easily within an existing team, and implement your own initiatives in a scientific environment.

For any further information please contact Dr. Patrick Marchand, (Tel. +41 56 310 40 26, e-mail: Patrick.Marchand@psi.ch).

Please send your application to:

PAUL SCHERRER INSTITUT, Human Resources, ref.code 0203-01e, CH-5232 Villigen PSI, Switzerland

Further job opportunities: www.psi.ch



Postdoctoral Research Associate in Nuclear Physics



The I.U. nuclear physics group has an active program with experiments to study nucleon structure, nuclear dynamics, and the properties of the weak interaction. The wide range of questions being addressed by 11 faculty members include parity violation in thermal neutron-proton capture at LANSCE, flavor and spin structure of the nucleon at RHIC with the STAR detector, and neutrino oscillations with the miniBooNE experiment at Fermilab. Local facilities include a 200 MeV cyclotron and a 500 q²/A electron cooled storage ring. While the major programs on these no longer include nuclear physics they do provide excellent facilities for development and testing. The laboratory also provides strong personnel infrastructure to enable strong participation in major off-site projects. Opportunities are available on all major research projects. For further information, please access our Web site at <http://www.iucf.indiana.edu/>

Initial appointments as research associate will be for one year, with possible renewal for two additional years. A Ph.D. in experimental subatomic physics is required. Applications for postdoctoral positions are accepted on a continuing basis and starting dates can be adjusted to suit the situation of the candidates.

Send resume, bibliography and contact information for three references to

Dr. John M. Cameron, Director
Indiana University Cyclotron Facility
2401 Milo Sampson Lane, Bloomington, IN 47408.

FAX: 812-855-6645
Email: cameron@iucf.indiana.edu

Indiana University is an Affirmative Action/Equal Opportunity Employer.





THE EUROPEAN GRADUATE SCHOOL COPENHAGEN-GIESSEN

COMPLEX SYSTEMS OF HADRONS AND NUCLEI

At Giessen University **Graduate student fellowships** for doctoral projects in experimental and theoretical hadron physics and **Marie Curie Training Site (MCTS) Fellowships** for research visits of postgraduates from EU and associated countries of up to one academic year are available on:

- ▼ Structure of hadrons and their interactions
- ▼ Properties of mesons and baryons in free space and a nuclear environment
- ▼ Flavour dynamics of strange and charmed systems
- ▼ Signals of the Quark-Gluon Plasma

related to the physics at GSI, DESY, MAMI, ELSA, JLAB, RHIC and LHC. Graduates with excellent academic records and knowledge in hadron or nuclear physics and Quantum Field Theory and postgraduates interested in a MCTS fellowship are encouraged to send applications to the speaker of the Graduate School, Prof. Dr. U. Mosel, Institut für Theoretische Physik, Heinrich-Buff-Ring 16, D-35392 Giessen, Germany

email: euro-grad@physik.uni-giessen.de

Deadline: March 31, 2002.

including a C.V., a list of your academic achievements, and two letters of recommendation. Information on the Graduate Program, the MCTS Program and the admission rules you will find at <http://www.physik.uni-giessen.de/EuroGrad/>. The working language is English.

Giessen University is an equal opportunity employer.



Universität Hamburg

**Institute for Experimental Physics
Faculty Position in Experimental Particle Physics**

The Institute for Experimental Physics invites applications for a

**Professorship (C4-tenure)
in Experimental Particle Physics**

which will be vacant from 01.04.2003. The candidate is expected to play a leading role in the Institute's group activities with the OPERA-Experiment at the Gran-Sasso Laboratory and to shape the future research program of the Institute. Further research activities of the Institute in the field of high energy physics are experiments at HERA, the TESLA Project and astro-particle physics. The teaching duties (8 SWS) include lectures, tutoring, and the supervision of diploma and doctoral students.

Candidates should have a demonstrated excellence in research in experimental particle physics and experience in teaching and working with students.

The University of Hamburg is an equal opportunity/affirmative action employer and welcomes applications from qualified women. Equally qualified handicapped applicants will be given preference.

Applications containing the customary documents (CV, academic records, teaching experience and the list of publications) should be sent by **30.04.2002** to the President of Hamburg University, Administration – 632.5 –, Moorweidenstrasse 18, D-20148 Hamburg, Germany.

TOR ZUR WELT DER WISSENSCHAFT

SERVICE DE PHYSIQUE THEORIQUE (SPHT), SACLAY,

is opening a senior staff position (professor level)
in theoretical physics.

Deadline for applications : March 10th, 2002.

For more information see <http://www-spht cea.fr/>

**CERN COURIER RECRUITMENT
BOOKING DEADLINE**

April issue: 8 March

Publication date: 21 March

Contact Debra Wills:

Tel. +44 (0)117 930 1196 **Fax** +44 (0)117 930 1178 **Email** debra.wills@iop.org
cerncourier.com



HARVARD UNIVERSITY

**POSTDOCTORAL RESEARCH FELLOW
EXPERIMENTAL HIGH ENERGY PHYSICS**

The High Energy Physics Laboratory at Harvard University periodically has openings for Postdoctoral Research Fellows. Our research program is funded by the U.S. Department of Energy and includes studies of e+e- collisions with the SLAC Babar detector, of proton-antiproton interactions using the Fermilab CDF detector, and of neutrino interactions in the MINOS experiment at Fermilab/Soudan. We are also participating in the preparations for the ATLAS experiment at CERN's LHC.

The current opening is with the Babar experiment. The successful candidate will be expected to participate in the construction and the deployment of a new trigger system. Experience with state-of-the-art detector systems and software experience with the analysis of a high-energy physics experiment are appreciated. Interested applicants should send their CV, a statement of interest, and arrange to have three (3) letters of reference sent to:



**Dr. George W. Brandenburg, Director
High Energy Physics Laboratory,
Harvard University
42 Oxford Street,
Cambridge, MA 02138.**

For any questions regarding this opening please contact
Prof. Masahiro Morii morii@physics.harvard.edu.

Harvard is an equal opportunity, affirmative action employer.



MAX-PLANCK-GESELLSCHAFT

**Max Planck Institute for Physics
invites applications for a
STAFF POSITION IN
THEORETICAL PHYSICS**

with orientation towards particle physics phenomenology. The appointment may be five-year or permanent, depending on qualifications. Salary and benefits will be determined according to BAT scale (German civil service). The Max Planck Society would like to increase the participation of women in its research activities and encourages women to apply. In cases of equal qualification, preference will be given to the handicapped.

Applications, including curriculum vitae, list of publications, and names of three referees, should be sent before 31 March 2002 to

Leo Stodolsky, Max-Planck-Institut fuer Physik,
Foehringerring 6, 80805 Munich, Germany.

<http://www.mppmu.mpg.de>.

Universität Bielefeld

Fakultät für Physik

**Tenured Professorship (C-3)
in Theoretical Physics**

The Department of Physics invites applications for a professorship in Theoretical Physics in the field of Astro-Particle Physics and Cosmology. The appointment will be made for August 1, 2003.

Candidates should have a strong record of successful research in this field. They should complement the Bielefeld research program and should be willing to cooperate with the existing groups (quantum field theory, particle phenomenology, statistical aspects of particle physics, lattice gauge theory and its numerical simulations). The successful applicant will participate in the general teaching duties of the department, in particular in theoretical physics. Therefore interest and ability in teaching are prerequisites for this position.

Applicants must have a doctorate (or equivalent) in physics and 'Habilitation' or a sufficient record of scientific achievements. Women are especially encouraged to apply.

Applications should be sent by regular mail before May 31, 2002 to

**Dekan der Fakultät für Physik, Universität Bielefeld,
Postfach 100131, D-33501 Bielefeld, Germany**

e-mail: dekanat@physik.uni-bielefeld.de

<http://www.physik.uni-bielefeld.de>



BESSY, the Berliner Elektronen-speicherring-Gesellschaft für Synchrotronstrahlung m.b.H., member of the Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz (WGL) operates an electron storage ring as a light-source for the VUV and soft X-Ray range for German and international research groups as a research and service facility. For the development of a free-electron laser BESSY is looking for

Postdoctorals in Physics

Key number FEL 111

to join our scientific team in the design and planning phase of a SASEFEL. Besides theoretical studies on the SASE-process, focal points are the cooperation in the design of superconducting accelerator resonators for a CW linear accelerator, the development of precision components to diagnose ultra-short, intensive electron bunches, the design of bunch compressors, and the development of a photoinjector to produce highly brilliant electron pulses.

A solid background in accelerator physics is expected. Experience at accelerator facilities is an advantage.

The work contracts are based on the Bundes-Angestelltenarbeitsvertrag (BAT/BAT-0) and are limited to the project duration of three years. A further financing of the project will be sought. BESSY is an Equal Opportunity Employer. Among equally qualified applicants, handicapped candidates will be given preference.

Applications with reference to the **above key number** as well as earliest possible date of engagement should be submitted as soon as possible to:

**Berliner Elektronenspeicherring-Gesellschaft
für Synchrotronstrahlung m.b.H. (BESSY)
- Personalverwaltung -
Albert-Einstein-Str. 15, 12489 Berlin-Adlershof**



ILLINOIS

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

The experimental high energy physics group at the University of Illinois has openings for postdoctoral research associates i) to participate in the CLEO-c experiment at the Cornell Electron Storage Ring, and ii) in the development of real-time embedded software tools for the BTeV experiment.

The main goal of the CLEO-c experiment is to perform precision studies in the charm sector, including D-mixing, decay constants, branching ratios, quarkonia and QCD. The Illinois group designed, built, and is currently operating the trigger system for the CLEO-c experiment, hence experience with high-speed electronics is strongly preferred. The successful candidate will have the opportunity to perform physics analysis on all CLEO datasets, will participate in the operation of the CLEO-c detector (the trigger system in particular), and will have the freedom to contribute to other projects of interest to our group (BTeV, Linear Collider, and neutrino physics).

The main goal of the BTeV experiment is to challenge the Standard Model explanation of CP violation, mixing, and rare decays in the b and c quark system. The Illinois group will develop methodologies and tools for designing and implementing large scale real-time embedded systems, with the Pixel and Muon Triggers of the BTeV experiment as a large-system baseline. Experience with at least three of the following is preferred: high energy triggers, high-speed electronics, FPGA design, DSP software, Linux, C/C++.

Candidates should send cover letter, vita, and arrange three letters of recommendation to be sent to:

**Professor Mats Selen, UIUC Dept of Physics,
1110 W. Green St., Urbana, IL 61801.**

Applications received by March 31, will be given full consideration. Start date(s) negotiable.

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

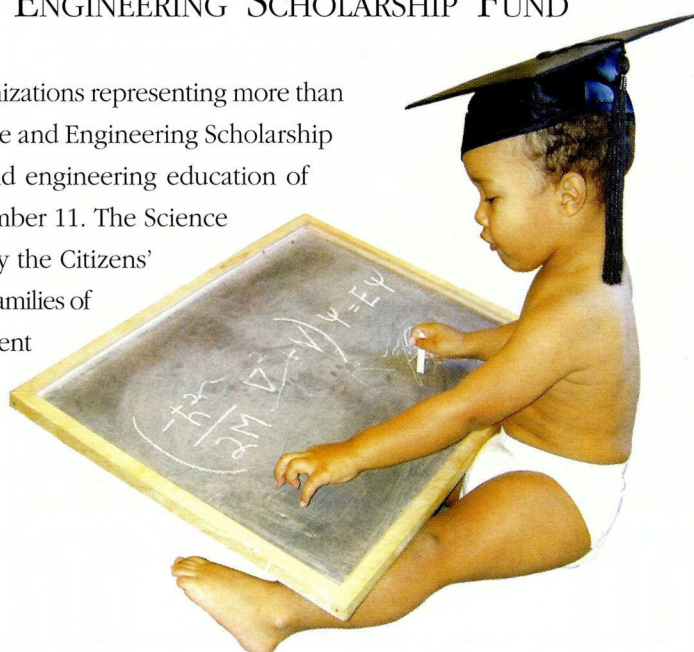
SEPTEMBER 11TH

The Science and Engineering Community Can Make a Difference.

DONATE TODAY TO THE SCIENCE AND ENGINEERING SCHOLARSHIP FUND

In response to the tragedy of September 11, dozens of organizations representing more than a million scientists and engineers have established a Science and Engineering Scholarship Fund. Donations to the Fund will support the science and engineering education of dependents of those who were killed or injured on September 11. The Science and Engineering Scholarship Fund will be administered by the Citizens' Scholarship Foundation of America®. It is part of an overall Families of Freedom Scholarship Fund™ chaired jointly by former President Bill Clinton and former Senate Majority Leader Bob Dole.

TO MAKE A TAX-DEDUCTIBLE DONATION VISIT US ON THE
WEB AT WWW.APS.ORG/SCIENCEFUND.HTML
OR CALL 1-800-335-1102 AND DESIGNATE
FFSF - SCIENCE AND ENGINEERING
SCHOLARSHIP FUND.



The sponsoring organizations are not affiliated with Citizens' Scholarship Foundation® of America or the Families of Freedom Scholarship Fund™, Citizens' Scholarship Foundation of America (CSFA)® and any associated trademarks or CSFA designs.



DESY is one of the large accelerator centres worldwide. The research spectrum reaches from elementary particle physics and solid state physics up to molecular biology and medicine.

Particle accelerators produce high intensity radiation for most diverse, innovative applications.

For the research at the Hamburg synchrotron radiation laboratory HASYLAB we seek a

Postdoc (m/f) for research with Synchrotron Radiation

The Hamburger Synchrotronstrahlungslabor HASYLAB is currently operating 80 different instruments using synchrotron radiation from the storage rings DORIS and PETRA. The undulator beamline BW3 provides VUV- and soft x-ray radiation with high flux and high spectral resolution for experiments on atoms, clusters surface and bulk solids.

We are looking for a candidate (m/f) holding a PhD in experimental physics for the development of experimental methods and the investigation of the electronic structure of clusters, nanocrystals and superlattices with photoemission (UPS, XPS) and absorption techniques (XANES, NEXAFS). Interested applicants, who are not older than 32 years, are invited to send their documents incl. 3 referees to our personnel division.

The position is limited to 2 years with the possibility for prolongation by one additional year.

The salary and the social benefits correspond to those in public services (BAT IIa). DESY is open for flexi-time and other modern models for working hours.

Handicapped persons will be given preference to other equally qualified applicants.

DESY is committed to equal opportunities and therefore welcomes applications of qualified women.

Deutsches Elektronen-Synchrotron DESY

code: 22/2002 • Notkestrasse 85 • 22603 Hamburg • Germany
Telefon +49 40 8998-2527 or -2304 • www-hasyllab.desy.de
email: personal.abteilung@desy.de

Deadline for applications: 04.04.2002

CORNELL UNIVERSITY

SENIOR RESEARCH ASSOCIATE IN ACCELERATOR PHYSICS

Cornell Lab of Elementary Particle Physics is seeking an accelerator physicist or technologist at the Senior Research Associate level. The successful candidate will work with the Cornell team on continuing upgrades of the CESR e+e- storage ring, carrying out of accelerator physics experiments using the Cornell facilities or other accelerators and development work and planning for the Linear Collider.

This is a continuing appointment requiring a PhD in physics or allied field and at least 10 years of experience in accelerator work. The successful candidate will have standing in the international community and have demonstrated leadership capabilities.

Applications containing a curriculum vitae and three letters of reference should be sent to

**Prof. Maury Tigner at search@lns.cornell.edu or to
SRF Search Committee, Floyd Newman Laboratory,
Cornell University, Ithaca, NY 14853**

Cornell University is an equal opportunity, affirmative action employer.

INDEX TO DISPLAY ADVERTISERS

Amptek	27
Amuneal Manufacturing Corp	46
CAEN	48
Eljen Technology	14
Goodfellow Cambridge	8
Hitec Power Protection	11
IEEE	2
Janis Research	46
McLennan Servo Supplies	10
PDE Solutions	14
Physical Electronics	46
PPM	31
QEI	31
Saint-Gobain Crystals & Detectors	44
Spectra Gases	46
Thermionics Vacuum Products	17
Thermo Vacuum Generators	23
Universal Voltronics	47
VAT Vacuum Products	5, 44

The index is provided as a service and, while every effort is made to ensure its accuracy, *CERN Courier* accepts no liability for error.

Swiss Headquarters

Tel ++41 81 771 61 61
 Fax ++41 81 771 48 30
 Email reception@vat.ch

VAT France

Tel 01 69 20 69 11
 Fax 01 69 20 90 08
 Email france@vatvalve.com

VAT Germany

Tel (089) 46 50 15
 Fax (089) 46 37 65
 Email deutschland@vatvalve.com

VAT U.K.

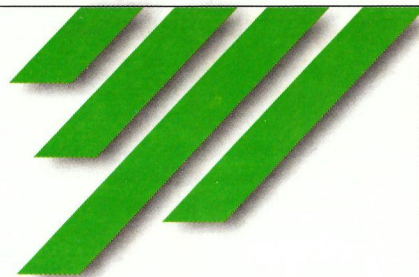
Tel 01926 452753
 Fax 01926 452758
 Email uk@vatvalve.com

VAT Japan

Tel (045) 333 11 44
 Fax (045) 333 70 24
 Email sales@vatskk.co.jp

VAT USA

Tel (781) 935 1446
 Fax (781) 935 3940
 Email usa@vatvalve.com

**UHV Gate Valves**

Series 01, 10 and 15 with vulcanized gate seal



Proven soft shut
mechanism

One sealing line only

No trapped volumes

Ask for our
new catalog 2004

www.vatvalve.com

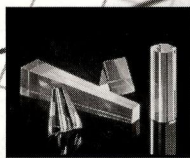
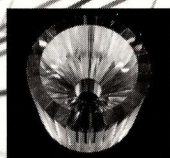
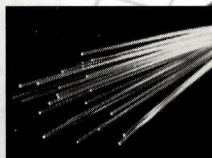
**The Perfect Equation...****Your Application**

medical
physics
radiation protection
security
gauging

**SGCD Products**

plastic scintillators
plastic scintillating fibers
standard and custom detectors
NaI(Tl), CsI(Tl), Pure CsI,
CsI(Na), BGO, YAP:Ce
gas-filled radiation detectors

...for Reliable Results



Saint-Gobain Crystals & Detectors manufactures
Bicron® and Crismatec® brand scintillation detectors.

For Plastic Scintillators

In USA – Tel: +1 440-564-2251
 In Europe – Tel: +31 (35) 60 29 700
 In Japan – Tel: +81 (45) 474 5786

For Gas-Filled Tubes

In USA – Tel: +1 713-973-9461
 In Europe – Tel: +44 (208) 309 9021
 In Japan – Tel: +81 (45) 474 5786

**For Scintillation
Crystals and Detectors**

In Europe –
 Tel: +33 (0) 1 64 45 10 10
 e-mail: customerservice
 @crismatec.saint-gobain.com

Visit our web site:
<http://www.detectors.saint-gobain.com>


SAINT-GOBAIN
 CRYSTALS & DETECTORS