

RECRUITMENT

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Texas Tech University

POSTDOCTORAL RESEARCH POSITION IN CDF WITH TEXAS TECH UNIVERSITY

Texas Tech University has an opening for a postdoctoral research associate to pursue electroweak symmetry breaking physics and/or heavy flavor physics with the Collider Detector at Fermilab and to work on associated upgrades to the CDF detector in preparation for Run II of the Tevatron collider. The appointment will be for an initial duration of two years, with the possibility of an extension, and will be based at Fermilab.

The successful candidate will be expected to play a major role in the hardware construction of the CDF SVX II silicon vertex detector upgrade and to contribute substantially to analysis of data to be acquired during Run II with the upgraded experiment. Our group at TTU has major responsibilities in the construction of the SVX II, in front end electronics development and testing, and in calibration software development for the CDF upgrade. Our current physics analysis activities are focused on tests of the mechanism for electroweak symmetry breaking, including high-precision methods for measuring the W mass and other related tests of the standard model, and on studies of B physics and quarkonia production. We are also involved in detector development and physics preparations for the CMS experiment at the LHC.

Applicants should send their vitae, a publication list, and arrange to have three letters of reference sent as soon as possible to Prof. Alan Sill, High Energy Physics Group, Texas Tech University, Lubbock, TX 79409-1051, USA. Replies containing the same information will also be accepted by e-mail directed to alansill@ttu.edu.

Texas Tech University is an equal opportunity employer.

RESEARCH ASSOCIATE POSITION HIGH ENERGY PHYSICS THE OHIO STATE UNIVERSITY

The experimental high energy physics group at The Ohio State University invites application for a postdoctoral research associate position with our CLEO/ATLAS program. In the CLEO program, we are involved in both the ongoing data analysis effort in heavy flavor physics and the CLEO III upgrade program where we have major responsibilities for the design and implementation of the silicon vertex detector and the data acquisition system. For the ATLAS program, we are involved in the design and prototyping of the optical electronics and packaging for the pixel detector. Interested candidates should send a letter of application, vitae, list of publications, and three letters of recommendation to **Professor. K. K. Gan, The Ohio State University, Department of Physics, 174 West 18th Avenue, Columbus, Ohio 43210-1106, or email: GAN@ohstpy.mps.ohio-state.edu.**

The Ohio State University is an equal opportunity employer and we actively encourage applications from women and minority candidates.



DESY is a physics research laboratory with 1.400 employees and more than 3.000 guest scientists from Germany and abroad. The scientific programme includes research in particle physics and synchrotron radiation.

DESY invites applications for the position of a highly qualified

Experimental Physicist

The candidate is expected to take a leading role in the research program of the H1 experiment on the ep storage ring HERA. The person should be willing to take considerable responsibility in the physics analysis and also to participate in the operation and upgrade of the detector.

Applicants should have a Ph. D. in physics, several years of experience in experimental particle physics, and should be active in research in this field. They should have an established record in analysis and interpretation of particle physics data, and will be expected to work with physicists and technicians of the H1 experiment.

The appointment is to a permanent position with a salary according to federal tariffs (BAT lb).

Letters of application including a curriculum vitae, list of publications and the names of three referees should be sent to:

**DESY, Personalabteilung, Notkestraße 85, D-22607 Hamburg
by June 15th, 1999 Code-No. 51/99**

Applications are particularly welcomed from qualified women and people with disabilities as they are currently under represented within the workforce.

Centre for Advanced Studies, Research and Development in Sardinia Engineer or Physicist (Nuclear or reactor physics)

Education: Degree, preferably MSc or PhD in Physics or Nuclear engineering. Good knowledge of English. Knowledge of French would be an advantage.

Experience required: Three years minimum experience in one or more of the following areas:

- ▶ Neutronic analysis.
- ▶ Montecarlo simulations.
- ▶ Scientific programming (Fortran, and possibly parallel programming using MPI).
- ▶ Reactor Physics and Engineering.
- ▶ Knowledge in the fields of Accelerator Driven subcritical Systems (ADS) and radiation medicine is welcome.

Functions: The candidate (2 years renewable contract) will work under the direction of Prof. Carlo Rubbia. Such work is carried out jointly with ASI and the Universities of Rome and Pavia. The candidate should be prepared to spend some time at CERN, Geneva.

Working Environment: CRS4, located in Cagliari, Italy, is a stimulating environment with more than 80 researchers working on different applied research projects: numerical modelling and simulation, scientific visualisation, education and information technology.

The position is available immediately: applications will be accepted until the position is filled.

Applicants should send a resume and three letters of reference to:

**Marco Rosa-Clot, CRS4, C.P. 94, I-09010 UTA (CA)
quoting Reference. CFD.NA1. or by e-mail to simona@crs4.it**

For information see <http://www.crs4.it/>



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

The Swiss Federal Institute of Technology Lausanne (EPFL) invites applications for three positions:

1. Professor of Telecommunications Department of Electrical Engineering

The new professor will develop a first rate research and teaching program in one or more areas related to telecommunication technology (physical layer), including telecommunication systems and networks. **Applications for appointments at the assistant, associate or full professor levels will be considered.** Please contact Prof. Jean-Jacques Simond for more information (+41.21.693.48.04, Jean-Jacques.Simond@epfl.ch).

2. Professor of Distributed Information Systems Communication Systems Division/Department of Computer Science

The new professor will develop a first-rate research and teaching program in the area of distributed and/or mobile information systems. He/she will also have a strong background in the underlying fundamentals of computer science. **Applications for appointments at the assistant, associate or full professor levels will be considered.** Please contact Prof. Martin Hasler for more information (+41.21.693.26.22, Martin.Hasler@epfl.ch) or Prof. Claude Petitpierre (+41.21.693.52.01, Claude.Petitpierre@epfl.ch).

3. Assistant Professor of Computer Science Department of Computer Science

The new assistant professor will be active for example in areas like: theories of distributed or concurrent systems, abstract types, temporal logic, data or process algebra, image and media servers (storage, access, indexing, management of mass of data, distributed hierarchical services, fault tolerance). He/she will have developed original theories, techniques or methods.

Please contact Prof. Claude Petitpierre for more information (+41.21.693.52.01, Claude.Petitpierre@epfl.ch).

* * *

For the three positions, aptitudes for research will be demonstrated by the publication of scientific articles in international journals and/or by patents and professional achievements. The positions require teaching talents and the capacity to guide students, Ph.D. students and young researchers. A taste and talent for multidisciplinary collaborations are essential. Industrial experience is an advantage. The new professor will be expected to have an international network of scientific relations. He/she will develop R&D projects in collaboration with industry.

The EPFL is a top, internationally minded Institute of Technology which offers competitive salaries, substantial start-up packages and excellent research and teaching facilities. The EPFL strongly invites women to apply.

Deadline for registration: September 6, 1999. Starting date: upon mutual agreement. Please ask for the application form by writing or faxing to: Présidence de l'Ecole polytechnique fédérale de Lausanne, CE-Ecublens, CH-1015 Lausanne, Suisse, fax nr. +41 21 693 70 84.

For further information, please consult also URL:

<http://www.epfl.ch/>, <http://dewwww.epfl.ch/>,
<http://diwww.epfl.ch/>, <http://sscwww.epfl.ch/>,
<http://admwww.epfl.ch/pres/profs.html>
or <http://research.epfl.ch/>



UNIVERSITY OF CALIFORNIA,
SAN DIEGO
Experimental High Energy Physics

Applications are invited for a Postgraduate Research position in the Experimental High Energy Physics group of the University of California San Diego (UCSD). Our group is working on Heavy Quark Physics (charm and bottom) in the CLEO experiment, located at the Cornell Electron Synchrotron Ring (CESR). CESR is a very high luminosity e+e- storage ring whose luminosity will increase significantly in the near future. The upgraded CLEO detector (CLEO III) will have excellent tracking and vertex detection, high resolution electromagnetic calorimetry, and particle identification and is scheduled to start taking high luminosity data in Summer 1999. Currently, the fully reconstructed CLEO II dataset consists of nearly 10 million B pairs and similarly large samples of charm and tau events.

We are looking for a Ph.D. physicist with experience in hardware, software and physics analysis. The successful candidate will be expected to be resident at Cornell together with other members of the UCSD group. The appointment will initially be for two years with the possibility of an extension by a third year. The level of appointment and salary will be commensurate with the candidate's qualifications and will be based on University of California pay scales.

Interested individuals should send their curriculum vitae along with a statement of their research interests and accomplishments and three letters of reference to **Dr. Hans P. Paar, Physics Department 0319, UCSD, 9500 Gilman Drive, La Jolla, CA 92093-0319.** Processing of files will start on July 1, 1999. Files received after this date will be considered until a suitable candidate has been identified.

In compliance with the Immigration Reform and Control act of 1986, individuals offered employment by the University of California will be required to show documentation to prove identity and authorization to work in the United States before hiring can occur. The University of California is an Equal Opportunity/Affirmative Action Employer.

TENURE TRACK FACULTY POSITION Experimental High Energy Physics Carnegie Mellon University

The Department of Physics at Carnegie Mellon University invites applications for a junior tenure track faculty position in the area of experimental particle physics. The present program consists of experiment 781 at Fermilab, R&D for the BTeV detector at Fermilab, the L3 experiment at CERN, and the CLEO III experiment at Cornell. We are also engaged in work in the CMS collaboration for the LHC.

Applicants for the position should have postdoctoral experience and demonstrated ability in both instrumentation and analysis. The successful candidate is expected to assume a leadership role in his/her experimental involvement during the coming decade. Applicants should also be committed to excellence in graduate and undergraduate education.

The position is nominally available for September, 2000, but an earlier starting time might be arranged. Applications and three (3) letters of recommendation should be sent before October 15, 1999, to:

High Energy Search Committee
ATTN: Prof. James Russ
Department of Physics
Carnegie Mellon University
Pittsburgh, PA 15213, USA
(e-mail: russ@cmphys.phys.cmu.edu)

Reply may be by email, followed by paper copy.

Carnegie Mellon is an equal opportunity/affirmative action employer

Neutron Science Center Superconducting Laboratory Team Leader

SUMMARY: Senior-level scientist to lead the effort in superconducting RF cavity technology in Los Alamos Neutron Science Center (LANSCE) Division. Experimentalist to work as a member of the Accelerator Physics and Engineering Group on a variety of novel and intriguing accelerator projects. Primary emphasis will focus on superconducting RF cavity technology in application to high power proton linacs. In this capacity, experimental work in support of linac design efforts will be done, including but not limited to: cavity field-limiting physics, RF structures physics, cavity testing, RF power couplers, mechanical fabrication oversight, and contamination control in overall assembly of cryomodules. Expected to also support RF structures work on normal conducting cavities as well. Supervise technical staff working in the experimental facilities. Work with and provide technical support for design engineers and physicists in LANSCE-1 and other departments.

REQUIRED SKILLS: Experience in RF and microwave engineering from 100 MHz to 25 GHz. Significant experience in the areas of RF superconductivity and resonant cavity physics. Experience in RF structures measurements. Strong experimental background in a laboratory environment. Experience with high vacuum technology. Experience with computer-based data acquisition. Demonstrated ability to achieve hardware deliverables on a timely basis and to work well in a team environment. Above experience and skills must be

supported by a strong record of publications, honors, awards, and invitations to speak at conferences and universities and by letters of recommendation.

DESIRED SKILLS: Experience with low-level RF control. Experience with cryogenics and contamination control technology. Familiarity with cavity modeling codes (e.g., SUPERFISH, MAFFIA, HFSS). Experience with high-power RF.

EDUCATION: PhD in Electrical Engineering or Physics plus 10 years minimum relevant experience or an equivalent combination of education and experience.

For consideration, please send your resume referencing "CERN994913" to jobs@lanl.gov (no attachments, please) or mail to: Human Resources Division, Los Alamos National Laboratory, "CERN994913," Mail Stop P286, Los Alamos, New Mexico 87545.

www.lanl.gov AA/EOE

Los Alamos
NATIONAL LABORATORY

Operated by the University of California
for the Department of Energy

Rheinische Friedrich-Wilhelms-Universität Bonn

The Faculty of Mathematics and Sciences invites applications for two openings in the Physikalisches Institut:

**Professor (C3)
Theoretical Physics (Condensed Matter)
and**

**Professor (C3)
Theoretical Physics (Elementary Particle Physics)**

The activities of the theory group at the Physikalisches Institut include mathematical physics, quantum field theory, condensed matter and elementary particle physics. It is expected that the successful candidates strengthen and expand the research activities in these areas.

The focus of the position in condensed matter theory is modern many body theory (i.e. strongly correlated systems, quantum transport in mesoscopic systems). The position in elementary particle physics is intended to strengthen the research of high energy phenomena (i.e. physics beyond the standard model). Cooperation in existing or planned Research Initiative Programs is desirable.

The candidates are expected to teach regular courses in theoretical physics (Diplom and Teaching Profession Degree (Staatsexamen)) and support graduate education in the respective areas.

Formal requirements are regulated by § 49 UG (NRW). The University of Bonn is an Equal Opportunity Employer and therefore encourages qualified women to apply. Handicapped applicants with equal scientific and teaching standing will be preferred.

Interested persons should submit their application by 8.31.99 to: Vorsitzender der Fachgruppe Physik-Astronomie, Endenicher Allee 11-13, 53115 Bonn, Federal Republic of Germany, <http://www.physik-astro.uni-bonn.de>.



MAX-PLANCK- INSTITUT FÜR PHYSIK (WERNER-HEISENBERG-INSTITUT)

An unserem Institut ist zum 01.09.1999 die Stelle einer/eines

Assistentin/Assistenten der Direktion

zum Aufgabengebiet dieser Position gehören u.a:

- Unterstützung der Institutsdirektion in allen Angelegenheiten des Wissenschaftsmanagements
- Umsetzung und Koordinierung von Direktionsbeschlüssen
- Ausbau der Öffentlichkeitsarbeit
- Kontakte und Verhandlungen mit Ministerien und Großforschungseinrichtungen
- Organisation von Tagungen und Schulungsprogrammen

Einstellungsvoraussetzungen sind eine abgeschlossene Promotion in Physik, experimentelle Erfahrung mit Großprojekten der Teilchen-, der Astroteilchen- oder der Schwerionenphysik sowie praktische Erfahrungen in mindestens zwei aufgelisteten Aufgabenbereiche.

Wir bieten eine tarifgerechte Eingruppierung je nach persönlichen Voraussetzungen bis BAT 1a. Sozialleistungen werden in Anlehnung an den öffentlichen Dienst gewährt. Schwerbehinderte werden bei gleicher Eignung bevorzugt eingestellt.

Die Max-Planck-Gesellschaft will den Anteil von Frauen in den Bereichen erhöhen, in denen sie unterrepräsentiert sind. Frauen werden deshalb ausdrücklich aufgefordert, sich zu bewerben.

Bewerbungen mit den üblichen Unterlagen erbitten wir bis zum 15.06.1999 an das

**Max-Planck-Institut für Physik (Werner-Heisenberg-Institut),
z.Hd. Prof. Dr. Siegfried Bethke
Föhringer Ring 6,
80805 München**

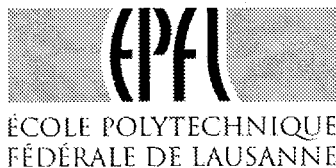
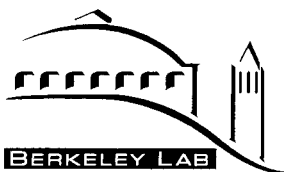
Informationen über das Institut sind unter <http://www.mppmu.mpg.de> erhältlich

POSTDOCTORAL POSITION IN PARTICLE PHYSICS

The BaBar Group of the Physics Division at the **E.O. Lawrence Berkeley National Laboratory** has an opening for a visiting postdoctoral physicist. The BaBar detector is now installed on beamline at PEP-II and first data-taking will commence in late Spring, 1999. Berkeley has major commitments in the following areas: Silicon Vertex Tracker (SVT), DIRC particle ID system, trigger and computing (on-line, simulation, reconstruction).

The applicant should have a Ph.D in Particle Physics and demonstrate strong potential for outstanding achievement as an independent researcher. Major responsibilities will include physics analysis as well as hardware development.

This is a two-year appointment with the possibility of renewal. The salary is \$3530-\$4170/month. Please submit a resume together with a publication list and arrange for three letters of reference, to be sent to: **Dr. Morris Pripstein, c/o Personnel Administrator, Job # PHY10431/JCERN, E.O. Lawrence Berkeley National Laboratory, One Cyclotron Road, Mail Stop 50-4049, Berkeley, CA 94720, U.S.A. FAX: (510) 486-6003. E-mail inquiries to: SCWilliams@lbl.gov.** Berkeley Lab is an affirmative action/equal opportunity employer committed to the development of a diverse workforce.



The Swiss Federal Institute of Technology Lausanne (EPFL) invites applications for a position of

Professor of Electronic Systems for the Department of Electrical Engineering

This position primarily involves information management in complex industrial systems (hard and software co-design). The post is conceived as integrating knowledge of electronic components and the skill to implement them, whilst respecting the constraints related to technology, reliability, performance and cost. Aptitudes for research will be demonstrated by the publication of scientific articles in international journals and/or by patents. A taste and talent for multidisciplinary collaborations with industry and within the EPFL are essential, coupled with proven project management ability. Industrial experience is an advantage. Education will constitute an important responsibility; the position requires teaching abilities and the capacity to guide students and young researchers.

Deadline for registration: July 15, 1999. Starting date: upon mutual agreement. Please ask for the application form by writing or faxing to:

**Présidence de l'Ecole polytechnique fédérale de Lausanne,
CE-Ecublens, CH-1015 Lausanne, Suisse,
fax nr. +41 21 693 70 84.**

For further information, please consult also URL:
<http://www.epfl.ch>, <http://dewwww.epfl.ch/>,
<http://admwww.epfl.ch/pres/profs.html>
or <http://research.epfl.ch/>



Johannes Gutenberg - Universität Mainz

Das Institut für Kernphysik im Fachbereich 18/Physik der Universität Mainz sucht zum nächst möglichen Zeitpunkt eine/n erfahrene/n promovierte/n

Beschleunigerphysiker/in

zur Mitarbeit am Ausbau des Mainzer Mikrotrons (MAMI C).

Das Institut für Kernphysik betreibt seit 1990 mit Unterstützung der Deutschen Forschungsgemeinschaft (DFG) den normalerweise 855 MeV Dauerstrich-Elektronenbeschleuniger MAMI B, bestehend aus einer Kaskade von drei Rennbahn-Mikrotrons mit einem Linearbeschleuniger als Injektor, zur Durchführung kernphysikalischer Messungen und zur Erzeugung und Anwendung kohärenter Röntgenstrahlung. Im Rahmen des neu gegründeten Sonderforschungsbereichs SFB 443 "Vielkörperstruktur stark wechselwirkender Systeme" wird, finanziert mit Mitteln der Hochschulbauförderung (HBF), bis zum Jahr 2003 ein Ausbau von MAMI auf 1.5 GeV Endenergie durch Hinzufügen einer vierten Stufe verwirklicht werden. Diese vierte Stufe wird als sogenanntes Doppelseitiges Mikrotron (DSM) realisiert, eine neuartige Weiterentwicklung des Rennbahn-Mikrotrons, bestehend aus zwei Linearbeschleunigern für 2.45 GHz bzw. 4.90 GHz und zwei 180°-Umlenksystemen.

Aufgabengebiet:

- Flexible Mitarbeit an Enddesign, Aufbau und Inbetriebnahme von MAMI C in den Bereichen Hf-Technik, Strahldynamik, Strahldiagnostik, Computersteuerung, Magnet- und Vakuumtechnologie.
- Anleitung von Ingenieuren, Technikern und Werkstattkräften.
- Verhandlungen mit Industriefirmen und Beaufsichtigung von deren Zulieferungen.
- Einarbeitung in die Bedienung und den Betrieb des derzeit laufenden Beschleunigers; langfristige Nachfolge des Betriebsleiters.
- In begrenztem Umfang Teilnahme am Lehrbetrieb des Instituts für Kernphysik, Anleitung von Diplomanden und Doktoranden.

Voraussetzungen:

- Langjährige Erfahrung an einer Beschleunigeranlage.
- Erfahrung in der Anleitung von Wissenschaftlern und Technikern sowie Umgang mit Industriefirmen.
- Gute Kenntnisse der englischen Sprache.

Die Vergütung erfolgt im Rahmen des Bundesangestelltentarifs nach Ver.-Gr. II a/I b; ein späterer Aufstieg nach Ver.-Gr. BAT I a ist möglich.

Die Johannes-Gutenberg-Universität Mainz ist bestrebt, den Anteil von Frauen im wissenschaftlichen Bereich zu erhöhen. Daher sind Bewerbungen von Frauen erwünscht.

Schwerbehinderte werden bei entsprechender Eignung bevorzugt eingestellt.

Bewerbungen sind bis zum 30. Juni 1999 zu richten an das Institut für Kernphysik der Universität Mainz, z.Hd.Frau Huhn, J.-J.-Becher-Weg 45, 55099 Mainz.

Medical/Radiation Physicist and Medical Physicist Indiana University Cyclotron Facility

The Midwest Proton Radiation Institute has an exciting opportunity for two medical physicists. We are embarking upon a \$20M renovation to add three new proton therapy treatment rooms at the Indiana University Cyclotron Facility – one fixed horizontal beam line and two gantries. We are looking for people who can work independently as well as in a team environment. You will be expected to provide leadership for the medical physics aspects of this project. Current priorities include designing, building, and commissioning the patient treatment systems (treatment nozzles, patient positioners, safety systems, and treatment control system), and choosing and commissioning a 3D treatment planning system. Completion of the first new treatment room is expected in two years, leading to a full clinical and research program.

The ideal candidate will have a M.S. or Ph.D. in medical physics in the area of radiation therapy. Experience with the use of charged particle beams is desirable. ABR/ABMP certification is a plus. Salary will be commensurate with experience.

For information regarding the excellent cultural, academic and recreational activities in Bloomington and its environs, refer to <http://www.bloomington.in.us> and <http://www.indiana.edu/iub>. Screening of applications will begin immediately. **Please send CV and contact information for three references to:**

**Ms. Moira Wedekind, Indiana University Cyclotron Facility,
2401 Milo Sampson Lane, Bloomington, Indiana 47408.**

An Equal Employment Opportunity/Affirmative Action Employer.



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

The Swiss Federal Institute of Technology Lausanne (EPFL)
invites applications for a position of

Processor architecture (assistant, associate or full professor) for the Department of Computer Science

This position is open to candidates with a higher education in computer sciences or electrical engineering. Candidate must have an outstanding research record in the field of hardware architecture (processors or systems). Industrial experience is an advantage.

This position requires a strong personality, teaching talents and the ability to guide students and young researchers. The successful candidate will be talented for interdisciplinary research.

Deadline for registration: 15 August 1999. Starting date upon mutual agreement. Interested applicants can ask for the applications forms by writing or faxing to:
Présidence de l'Ecole polytechnique fédérale de Lausanne,
CE-Ecublens, CH-1015 Lausanne,
Switzerland,
fax nr. +41 21 693 70 84.

For further information, please consult also URL:
<http://www.epfl.ch>, <http://diwww.epfl.ch/> or
<http://admwww.epfl.ch/pres/profs.html>, <http://research.epfl.ch>

The Max-Planck-Institute for
Nuclear Physics offers at the
earliest possible convenience, a

Postdoctoral Position

for the HERA-B experiment in the group of Prof. Dr. Werner Hofmann. The goal of HERA-B is the study of CP-violation in the decay of B-mesons. The MPI-group is involved in the construction of the complex silicon vertex tracker of the experiment. The successful candidate is expected to be based at DESY and take a leading role in the running and data analysis of the experiment.

The applicant should have a university degree with a Ph.D. in high energy or nuclear physics hardware as well as software experience and aged below 33 years. The contract will initially be for 2 years, with possible extension to 5 years and salary according to the German BAT.

**Applications should be sent until June 30, 1999 to
"Personalverwaltung des MPI fuer Kernphysik,
Postfach 103980, D-69029 Heidelberg".**

As the Max-Planck-Gesellschaft aims towards increasing the fraction of female employees, women are especially encouraged to apply. Handicapped applicants will be given preference to others with the same qualifications.

science serving society

Senior Electronics Technician

SUMMARY: Senior Electronics Technician to work as a member of the Accelerator Physics and Engineering Group in the Los Alamos Neutron Science (LANSCE) Division on the characterization of RF resonant accelerator structures, superconducting-RF-cavity technology, and beam diagnostics. Provide technical support for the development, assembly, and testing of normal and superconducting linear-accelerator structures and components. Work in a class-100 clean room environment on the assembly of superconducting-cavity structures. Interact with linac and beam transport physicists, mechanical engineers and designers, and fabrication technicians in the assembly and testing of RF structures. Provide technical support in the maintenance and upgrade of the laboratory facilities. Must have disposition to work in a fully-gowned clean room environment up to 50% of the time.

REQUIRED SKILLS: Significant experience with RF-measurement methodology in the 100-MHz to 20-GHz frequency ranges on resonant cavity structures. Experience with basic circuitry, vacuum systems, and assembly of complex electromechanical systems. Experience in working in a team environment focused on hardware deliverables.

DESIRED SKILLS: Experience with superconducting RF structures, and the associated areas of contamination-control technology and cryogenics. Experience with beam diagnostics and low-level-RF-control methodology. Clean room experience. High-power klystron transmitter experience.

EDUCATION: Minimum of an Associate's degree in Electronics, or an equivalent combination of education and experience.

For consideration, please send your resume referencing "CERN994912" to jobs@lanl.gov (no attachments, please) or mail to: Human Resources Division, Los Alamos National Laboratory, "CERN994912," Mail Stop P286, Los Alamos, New Mexico 87545.

Los Alamos
NATIONAL LABORATORY

Operated by the University of California
for the Department of Energy

www.lanl.gov AA/EOE

Theoretical Particle Physics

The Department of Physics, University of Alberta, plans to make a tenure-track appointment in theoretical particle physics, with a potential starting date of July 1, 2000. We specifically seek candidates at the rank of Assistant Professor. We are looking for candidates with research experience in particle phenomenology, and an ability to interact constructively with experimentalists, but all qualified candidates in particle theory will be given consideration and are encouraged to apply. In addition to the ability to maintain an outstanding research program, ability and interest in teaching at the undergraduate and graduate level will be important selection criteria. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered. Applicants should send a curriculum vitae, including a research plan and a teaching profile outlining experience and interest, and arrange for at least three letters of reference to be sent prior to November 1, 1999 to: Theoretical Particle Physics Search & Selection Committee, Dr. John Samson, Chair, Department of Physics, University of Alberta, 42 Avadh Bhatia Physics Lab, Edmonton, Alberta, Canada, T6G 2J1. Fax: (780) 492-0714, E-mail: dept@phys.ualberta.ca. Women are especially encouraged to apply as we may be able to increase the number of available faculty positions through the NSERC University Faculty Awards program. The University of Alberta is committed to the principle of equity in employment. As an employer, we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

JEFFERSON LAB/NORFOLK STATE UNIVERSITY POSTDOCTORAL RESEARCH ASSOCIATE EXPERIMENTAL NUCLEAR/PARTICLE PHYSICS POSITION #PR2140

Jefferson Lab (the Thomas Jefferson National Accelerator Facility) invites applications for a postdoctoral position in experimental nuclear/particle physics. Applicants must have a Ph.D. degree in experimental nuclear or particle physics. The successful candidate will be stationed at Jefferson Lab, and will support the existing group of experimentalists at Jefferson Lab and Norfolk State University which are emphasizing the physics of meson spectroscopy on few-body decays and preparing for the CLAS detector upgrades. The candidate will initially be working in the partial wave analysis (PWA) of CLAS experiment 99005, and in the prototyping and testing of ultra-compact calorimeters.

This is a two-year term position and is available immediately. Applicants should send a curriculum vitae and arrange to have letters from three referees sent to:

Jefferson Lab-Hall B/NSU Postdoctoral Position

Employment Manager

Mail Stop 28A

Jefferson Lab

12000 Jefferson Avenue

Newport News, VA 23606

Please specify #PR2140 and job title when applying

Informal inquiries may be addressed to:

Dr. Carlos Salgado, Norfolk State University, salgado@jlab.org

or Dr. Dennis Weygand, Jefferson Lab, weygand@jlab.org

Applications will be reviewed on a continuing basis.
Jefferson Lab is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE POSITIONS Experimental High Energy Physics Carnegie Mellon University

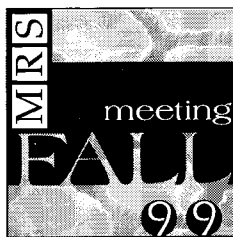
The Department of Physics at Carnegie Mellon University invites applications for two postdoctoral Research Associate positions in experimental high energy particle physics. The two individuals who fill these positions will work on our CLEO program at CESR, beginning in September 1999. The successful candidates will be based at the Cornell Synchrotron, in Ithaca NY, and will be expected to play a major role in the successful commissioning of the physics program for the CLEOIII detector. They will also be involved in the analysis of the existing CLEOII data, consisting of 10 million B pairs and extensive samples of charm and tau events. Interested candidates should submit a letter of application, curriculum vitae, and list of publications, and arrange to have three letters of recommendation sent to:

Professor Roy Briere
Department of Physics
Carnegie Mellon University
Pittsburgh, PA 15213, USA
(e-mail: briere@mail.lns.cornell.edu)

The application and recommendations can be sent either by normal or electronic mail. Review of applications will begin on July 1, 1999 and continue until the positions are filled.

Carnegie Mellon is an equal opportunity / affirmative action employer

New Developments ■ New Characterization Methods ■ New Process Technology



**NOVEMBER 29-
DECEMBER 3
BOSTON
MASSACHUSETTS**

**HYNES CONVENTION
CENTER
and
BOSTON MARRIOTT
COPLEY PLACE**

**Exhibit:
November 30-
December 2**

The MRS 1999 Fall Meeting will serve as a key forum for discussion of interdisciplinary leading-edge materials research from around the world.

Various meeting formats—oral, poster, round-table, forum and workshop sessions—are offered to maximize participation.

1999 MRS FALL MEETING SYMPOSIA

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| <p>A: Multiscale Phenomena in Materials—Experiments and Modeling</p> <p>B: Computational Approaches to Predicting the Optical Properties of Materials</p> <p>C: Microstructural Modeling for Industrial Metals Processing</p> <p>D: New Advances in Materials Prediction</p> <p>E: Nucleation and Growth Processes in Materials</p> <p>F: Nanophase and Nanocomposite Materials III</p> <p>G: Nanolithographic Approaches to Micro- and Nanoscale Organization</p> <p>H: Molecular Electronics</p> <p>I: Self-Organized Processes in Semiconductor Alloys—Spontaneous Ordering, Composition Modulation, and 3-D Islanding</p> <p>J: Advanced Materials and Techniques for Nanolithography</p> <p>K: Thermal Spray—Materials Synthesis by Thermal Spraying</p> <p>L: Fundamental Mechanisms of Low-Energy-Beam-Modified Surface Growth and Processing</p> <p>M: Interfacial Engineering for Optimized Properties II</p> <p>N: Atomic Scale Measurements and Atomistic Models of Epitaxial Growth and Lithography</p> <p>O: Substrate Engineering—Paving the Way to Epitaxy</p> <p>P: Optical Microstructural Characterization of Semiconductors</p> <p>Q: Advances in Materials Problem Solving with the Electron Microscope</p> <p>R: Applications of Synchrotron Radiation Techniques to Materials Science</p> <p>S: Nondestructive Methods for Materials Characterization</p> | <p>T: Structure and Electronic Properties of Ultrathin Dielectric Films on Silicon and Related Structures</p> <p>U: Amorphous and Nanostructured Carbon</p> <p>V: Thin Films—Stresses and Mechanical Properties VIII</p> <p>W: GaN and Related Alloys</p> <p>X: Frontiers of Materials Research</p> <p>Y: Ferroelectric Thin Films VIII</p> <p>Z: Thin Films for Optical Waveguide Devices</p> <p>AA: Materials Science of Food—Processing-Structure-Property Relationships</p> <p>BB: Electrical, Optical, and Magnetic Properties of Organic Solid-State Materials V</p> <p>CC: Complex Fluids and Polymers</p> <p>DD: Mineralization in Natural and Synthetic Biomaterials</p> <p>EE: Materials Science of Phospholipid Assemblies</p> <p>FF: Electroactive Polymers</p> <p>GG: Transport Properties and Microstructure of Cement-Based Systems</p> <p>HH: Superplasticity—Current Status and Future Potential</p> <p>II: Superconducting Materials—Properties, Crystal Chemistry, and Processing</p> <p>JJ: Magnetoresistive Oxides and Related Materials</p> <p>KK: Materials Issues for Tunable RF and Microwave Devices</p> <p>LL: Smart Materials</p> <p>MM: Materials Science of Microelectromechanical System (MEMS) Devices II</p> <p>NN: Chemical Processing of Dielectrics, Insulators, and Electronic Ceramics</p> <p>OO: Infrared Applications of Semiconductors III</p> <p>PP: Materials for Optical Limiting III</p> <p>QQ: Scientific Basis for Nuclear Waste Management XXIII</p> |
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1999 MRS FALL MEETING ACTIVITIES

SYMPOSIUM TUTORIAL PROGRAM

Available only to meeting registrants, several tutorials will concentrate on new, rapidly breaking areas of research.

EXHIBIT

Over 275 international exhibitors will display a full spectrum of equipment, instrumentation, products, software, publications, and services.

PUBLICATIONS DESKS

A full display of over 600 books, plus videotapes and electronic databases, will be available at the MRS Publications Desks.

SYMPOSIUM ASSISTANT OPPORTUNITIES

Graduate students planning to attend the 1999 MRS Fall Meeting may apply for a Symposium Assistant (audio-visual aide) position.

JOB CENTER

A Job Center for MRS members and meeting attendees will be open Tuesday through Thursday.

For additional meeting information...

...or to request a detailed 1999 MRS Fall Meeting Program, contact:



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