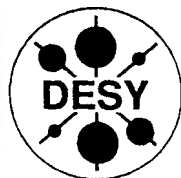


# RECRUITMENT

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Das **DEUTSCHE ELEKTRONEN-SYNCHROTRON DESY** ist ein nationales Zentrum der physikalischen Grundlagenforschung mit Standorten in Hamburg und Zeuthen (bei Berlin). Die hier betriebenen Beschleuniger werden für die Teilchenphysik und für die Forschung mit Synchrotronstrahlung genutzt. Das Labor in Zeuthen sucht zum frühestmöglichen Eintrittstermin eine/n

## Nachwuchswissenschaftler(in)

mit abgeschlossener Promotion in Physik, Mathematik oder Informatik, nicht älter als 32 Jahre, zur Mitarbeit in der zentralen Datenverarbeitung auf folgenden Gebieten:

- ◆ Erstellung und Umsetzung von Konzepten für die Installation, die Konfiguration und den Betrieb verteilter Systeme (speziell im heterogenen UNIX-Umfeld)
- ◆ Administration und Weiterentwicklung der verteilten File-Systeme, die in der UNIX-Umgebung zum Einsatz kommen: AFS (Andrew File System) als Schwerpunkt im gegenwärtigen Einsatz, DCE/DFS für spezielle Aufgaben bzw. zukünftige Entwicklungen NFS
- ◆ Administration der zentralen Infrastruktur (Systemmanagement, Sicherheitsmanagement, Systemüberwachung).

Der Schwerpunkt liegt insgesamt auf der Projektarbeit in den oben genannten Bereichen und der Entwicklung neuer automatisierter Lösungen auf der Grundlage modernster Technologien. Die internationale Zusammenarbeit ist analog zu den Forschungsprojekten des Labors von entscheidender Bedeutung. Aufgaben und Umfeld bieten damit beste Voraussetzungen für die eigene fachliche Weiterentwicklung.

Die Stelle ist auf 3 Jahre befristet.

Die Vergütung erfolgt nach Vergütungsgruppe IIa BAT-O.

Bewerbungsschluß ist der **27. August 1999**.

Schwerbehinderte werden bei gleicher Eignung bevorzugt berücksichtigt. DESY fördert die berufliche Entwicklung von Frauen und ist deshalb an deren Bewerbungen interessiert. Interessierte Wissenschaftler(innen) senden ihre vollständigen Bewerbungsunterlagen sowie Namen und Adressen von 3 Gutachtern an die

Personalabteilung DESY – Zeuthen, Platanenallee 6, 15738 Zeuthen.

## POSTDOCTORAL POSITION IN EXPERIMENTAL PARTICLE PHYSICS

### California Institute of Technology

The experimental particle physics group at Caltech invites applications for a postdoctoral research position, to participate in ongoing research with the CLEO experiment at the Cornell Electron Storage Ring (CESR).

Experience in collider physics is preferred. The Caltech CLEO group is involved in the study of tau lepton and B meson decays, and in construction and commissioning of the upgraded CLEO III detector. The position is expected to be based initially at Cornell, in Ithaca, NY.

Applicants should submit a letter of application, resume, and statement of research interests, and arrange to have three letters of recommendation sent to:

Professor Alan Weinstein, 256-48 Caltech, Pasadena CA 91125  
E-mail: [ajw@caltech.edu](mailto:ajw@caltech.edu)

Applications will be accepted until the position is filled.

*Caltech is an affirmative action / equal opportunity employer.  
Women, minorities, veterans, and disabled persons are encouraged to apply.*

## Software Engineer to Work at CERN for Princeton University.

Applications are invited from software engineers with a background in the sciences, for a technical staff position at Princeton University. The successful candidate will play a key role in the design, development, prototyping and eventual deployment of a globally distributed Object Oriented scientific data analysis system for the CMS experiment at CERN, Geneva.

The Engineer will participate in defining and developing the architecture of the CMS Experiment's Object Oriented software framework, take a leading role in formal software reviews and in the software improvement process and provide specific assistance to US physicists working both at CERN and in the USA.

Knowledge and Experience: University degree or equivalent in computer science, physics or a related discipline and several years of experience in scientific computing is required. Knowledge of software engineering standards, Demonstrated talents in object-oriented analysis, design and coding using C++ in a Unix environment. The successful candidate will have excellent communication skills, and be used to working effectively in a team of similarly motivated individuals.

At least initially, the successful applicant will be based at CERN. The salary will be competitive and at a level commensurate with the successful candidates experience and qualifications. Princeton University is an Affirmative Action, Equal Opportunity Employer.

Applications, including a CV and the names of three professional referees, should be forwarded to

**Dr. David Stickland, EP Division, CERN, CH1211,  
Geneva 23, Switzerland. Email: [David.Stickland@cern.ch](mailto:David.Stickland@cern.ch)**

## Kansas State University

### Postdoctoral Position in High Energy Physics

An experimental postdoctoral position is immediately available in the High Energy Physics group at Kansas State University in Manhattan, Kansas. Our group is involved in construction and commissioning of the Silicon vertex detector for the D0 experiment at Fermilab and in the development of pattern recognition algorithms. It is anticipated that the successful candidate will play a leading role in one of these projects and, eventually, become fully involved in analysis of the Run II data. The K-State High Energy group, consisting of five faculty and two post-docs, also plays a major role in Fermilab E815, a precision neutrino neutral current measurement in its data analysis phase.

Applicants should have strong software and analysis skills and a Ph.D. in particle physics, and be willing to live at Fermilab. Interested parties should send a resume, list of publications, and three letters of recommendation to: Prof. Regina Demina, Dept. of Physics, 116 Cardwell Hall, Kansas State University, Manhattan, KS 66506-2601, E-mail: [regina@phys.ksu.edu](mailto:regina@phys.ksu.edu) The application deadline is September 1, 1999, but the deadline may be extended beyond this date until the position is filled.

*Kansas State University is an affirmative action equal opportunity employer and actively seeks diversity among its employees.*



## UNIVERSITY OF CALIFORNIA, SAN DIEGO

POSTDOCTORAL RESEARCH POSITION IN  
Experimental High Energy Physics

The Department of Physics at the University of California, San Diego, invites applications from outstanding candidates for a Postdoctoral Research position in experimental High Energy Physics. UCSD is a member of the BABAR experiment at the PEP II B Factory at SLAC. The goal of BABAR and PEP II is to explore CP violation in B decays as a precision test of the Standard Model. The successful applicant will participate in the initial program of data taking and physics analysis with the BABAR detector. In particular, the UCSD group is contributing to the ongoing operation of the Drift Chamber, as well as to tracking, vertexing, and reconstruction software development. Candidates with interest and experience in these areas and in data analysis are particularly encouraged to apply. A Ph.D. in particle physics or a related field is required. Experience in C++ would be an asset. Applicants should send a copy of their curriculum vitae, including a statement of physics interests, and arrange for three letters of recommendation to be sent to:

Professor David MacFarlane  
University of California, 0319  
9500 Gilman Drive  
La Jolla, CA 92093-0319  
e-mail: dbmacfarlane@ucsd.edu

phone: +1 (858) 822-1452 fax: +1 (858) 534-0173

*The nominal deadline for the receipt of the application is September 1, 1999, although the search will continue until the position is filled.*

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#### Deputy Group Leader for Accelerator Development and Maintenance

**Summary:** Serve as a member of the LANSCE-2 management team by providing technical leadership. The group conducts beam dynamics studies and has a program of beam development activities related to the Proton Storage Ring, beam lines, and H-injectors. Participate in team-building, performance appraisals, salary management, planning and budgeting. Assume a proactive role in the group's ES&H effort.

**Required Skills:** Demonstrated excellence in technical and project leadership. Excellent management and interpersonal skills. Proven ability to work harmoniously and effectively with scientists, engineers and technicians. Track record of success in the development or operation of an accelerator complex or a similar facility. Strong record of technical accomplishments and experience in one or more of the following: particle beam physics, beam diagnostics, dc and pulsed magnets, ion sources and injectors, materials and radiation effects, pulsed power, high-voltage systems, and accelerator engineering. Excellent verbal/written communication skills.

**Desired Skills:** Experience in theory or practical aspects of circular accelerators or storage rings. Experience in project management or formal maintenance management. Success as a mentor and in conflict resolution.

**Education:** Ph.D. in Physics, M.S. or Ph.D. in Engineering, or an equivalent combination of education and experience.

For full text of this job, see <http://www.lanl.gov/external/opportunities> and search for job number 994920.

For consideration, please send your resume referencing "CERN994920" to [jobs@lanl.gov](mailto:jobs@lanl.gov) (no attachments, please) or mail to: **Human Resources Division, Los Alamos National Laboratory, "CERN994920," Mail Stop P286, Los Alamos, NM 87545.**

[www.lanl.gov](http://www.lanl.gov) AA/EOE

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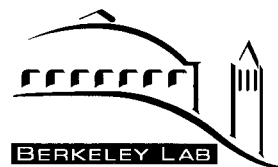
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for the Department of Energy

## POSTDOCTORAL FELLOW PHYSICIST

The ATLAS Group at the **Lawrence Berkeley National Laboratory (LBNL)** has an immediate opening for a postdoctoral candidate in experimental High Energy Physics. The LBNL group is part of the ATLAS Collaboration, building one of the two large experiments at the CERN Large Hadron Collider. The LBNL group is engaged in the design and construction of the ATLAS silicon strip and pixel trackers.

You will participate initially in the design and fabrication of the pixel tracker systems and take a major role in the acquisition and analysis of laboratory and test beam data for prototypes of the pixel system. Requires Ph.D in Physics within the last two years. Experience in the area of silicon detector or integrated circuit electronics systems is preferred.

This is a two-year term appointment. The salary is \$3,530-\$4,170/month. Applicants should submit a letter of application, curriculum vitae, list of publications, and three letters of reference to: **Lawrence Berkeley National Laboratory Physics Division, Personnel Administrator, Job# PHY10051/JCERN, Mail Stop 50-4037, Lawrence Berkeley National Laboratory, One Cyclotron Road, Berkeley, CA 94720, U.S.A.** E-mail inquiries to: [scdougherty@lbl.gov](mailto:scdougherty@lbl.gov). FAX: (510) 486-4848. Berkeley Lab is an affirmative action/equal opportunity employer committed to the development of a diverse workforce.



## Postdoctoral Position in Experimental Particle Physics

**Swiss Federal Institute of Technology Zurich (ETH/Z)**

A postdoctoral position is available with the particle physics group at the Swiss Federal Institute of Technology in Zurich (ETH/Z) to participate in the ICARUS underground experiment at the Gran Sasso Laboratory, Italy and in the CMS experiment at LHC.

The goal of the underground ICARUS experiment is to study solar and atmospheric neutrinos and proton decay using a large scale liquid Argon TPC. The detector could also be ideal to study neutrino oscillations with accelerator produced neutrinos from CERN.

The group is involved with the CMS TrIDAS project. One of the main challenges at LHC will be detect very rare events. The first level triggers will be processed and reduced online by a powerful online filter-farm.

These research topics will provide opportunities for the candidate to be involved in all aspects of an experiment – construction, hardware, software and physics analysis.

We are interested in candidates, holding a Ph.D. in physics, with diverse experience in experimental particle physics, who perform efficiently and creatively in detector hardware and data analysis work. The candidate will spend about 70% of his/her time doing research and will have a 30% involvement with academic requirements helping diploma and PhD students. He/she will hold a fixed term contract of three years renewable to six years. Interested candidates should send a curriculum vitae and arrange to have at least three letters of recommendation sent to:

**Prof. Andre Rubbia, Institute for Particle Physics ETH Hönggerberg / HPK F23, Swiss Federal Institute of Technology, CH-8093 Zurich (Switzerland)**



DESY announces several

## "DESY-Fellowships"

for young scientists in experimental particle physics to participate in the research mainly with the HERA collider experiments H1 and ZEUS, with the fixed target experiments HERA-B and HERMES and in R & D work for TESLA.

New fellows are selected twice a year in April and October.

DESY-Fellowships in experimental particle physics are awarded for a duration of two years with the possibility for prolongation by one additional year.

The salary for the fellowship is determined according to tariffs applicable for public service work (II a MTV Ang.).

Interested persons, who have recently completed their Ph.D. and are under 32 year of age, should submit an application consisting of a curriculum vitae, copies of university degrees and a publication list; and should arrange to have three letters of recommendation sent directly to:

**DESY, Personalabteilung, Notkestr. 85, D-22607 Hamburg  
by 30 September, 1999 Code-Number 61/99**

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

As DESY has laboratories at two sites, in Hamburg and Zeuthen near Berlin, applicants may indicate at which location they would prefer to work. The salary in Zeuthen is determined according to II a, BAT-O.

## 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*



The Institute of Physics, University of Zürich,  
CH-8057 Zürich, Switzerland is looking for a  
candidate to fill the position of a

## Senior Assistant/Lecturer

by September 1/1999 or later.

The teaching duties of this person involve the complete responsibility for the laboratories and accompanying lectures on the use of computers in planning and carrying out experiments in sciences. These lectures are part of the program "Computational Sciences and Computer Use for Scientists" of the Faculty of Mathematics and Sciences of the University of Zürich.

Apart from the teaching, the position entails the responsibility for the maintenance of the cluster of workstations available at the institute and running under the LINUX operating system, the administration of the computer budgets, the coordination of hardware acquisitions and consulting to the physicists responsible for the computers in the different research groups.

Candidates preferentially should have a Ph.D. in experimental physics, and advanced experience in data acquisition and analysis. Participation in the research of one of the groups in the institute (particle physics, surface physics, biophysics and solid state physics) is desired. At a later time an unlimited contract is possible.

Though initial knowledge of German is not required, applicants should eventually be able to teach in German, too.

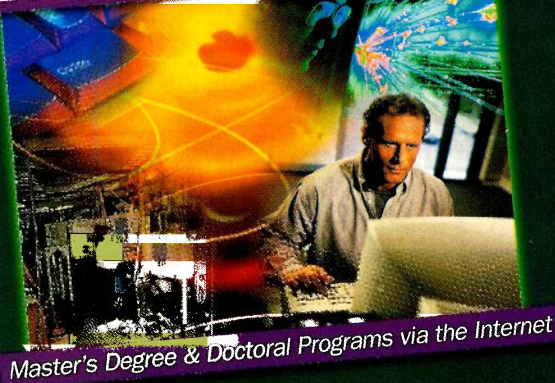
Applications should be addressed until August 1/1999 to

Prof. Dr. R. Engfer, Institutsdirektor,  
Physik-Institut der Universität,  
Winterschurerstr. 190, CH-8057 Zürich, Schweiz.  
Tel: 0041-1-6355720, Email: engfer@physik.unizh.ch

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or call Martin Berz at  
517-333-6313

**MICHIGAN STATE  
UNIVERSITY**

## ELECTRONIC ENGINEERS

The National Synchrotron Light Source (NSLS) at Brookhaven National Laboratory is one of the premier research facilities in the world. Over 2300 scientists from over 470 universities, corporations and laboratories around the world use its unique facilities for research in medicine, pharmaceuticals, plastics, semiconductors, and basic science. The NSLS is seeking qualified candidates for the following positions:

### Electronic Engineer

An MSEE degree or higher with experience in beam instrumentation equipment to work in the diagnostic section of the NSLS is required. Experience in beam position monitor systems utilizing feedback techniques to control the electron beam orbit is preferred. Knowledge of digital techniques and processing wide dynamic range, low signal-to-noise ratio signals is very desirable. Job Code: NS7848.

### Power Electronics Engineer

A BSEE degree or higher with five years' experience in the design and analysis of high power multi-phase converters; multi-kilowatt systems background is preferred. Knowledge of power transformer configurations, power factor correction, and National Electric code requirements are desirable. The work will be in the power systems group of the NSLS responsible for the maintenance and upgrade of highly regulated power supplies, as well as the building power systems infrastructure. Job Code: NS8433.

Brookhaven offers a stimulating work environment and a comprehensive benefits package. For consideration, please forward your resume, indicating Job Code, to: Nancy L. Sobrito, Brookhaven National Laboratory, Bldg 185-HR, Upton, NY 11973 - USA; or email: [Sobrito@bnl.gov](mailto:Sobrito@bnl.gov). For more information about BNL please visit our website at: [www.bnl.gov](http://www.bnl.gov). BNL is an equal opportunity employer committed to workforce diversity.

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## Post-grad and post-doc TMR network applications are invited for post-doc and post-grad positions.

**Topic:** Cryogenic Detectors development and applications: Beta and X-ray Spectroscopy, Investigation on Beta Environmental Fine structure.

Applicant must have an E.U. citizenship (not Italian). Info and Applications:  
Prof. Sandro Vitale Dipartimento di Fisica - Università di Genova and INFN Genova  
Via Dodecaneso 33 - 16146 Genova ITALY  
e-mail [vitale@ge.infn.it](mailto:vitale@ge.infn.it) tel +39 010 3536229 fax +39 010 313358

Further details can be obtained directly on request.

Applications should be received no later than July 30

## URGENT RECRUITMENT?

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## In der Mathematisch-Naturwissenschaftlichen Fakultät / Fachbereich I ist eine Universitätsprofessur (C4 BBesG) für Experimentalphysik zu besetzen.

Das Fach Experimentalphysik ist in Forschung und Lehre zu vertreten, insbesondere im Bereich "Experimentelle Elementarteilchenphysik".

Die Zusammenarbeit mit bestehenden Gruppen der experimentellen Elementarteilchenphysik und Gruppen der theoretischen Physik ist erwünscht.

Zu den Aufgaben in der Lehre gehört die Ausbildung in den Diplom- und Lehramtsstudiengängen der Physik sowie die Beteiligung an der Ausbildung von Studierenden in den übrigen Natur- und den Ingenieurwissenschaften.

Einstellungsvoraussetzungen sind Habilitation oder gleichwertige wissenschaftliche Leistungen sowie pädagogische Fähigkeiten.

Die Bewerbung von Schwerbehinderten ist erwünscht.

Die RWTH Aachen strebt eine Erhöhung des Anteils der Frauen in der Forschung und Lehre an. Bewerberinnen und Bewerber werden gebeten, sich mit den üblichen Unterlagen (Lebenslauf, Darstellung des wissenschaftlichen bzw. beruflichen Werdeganges, Schriftenverzeichnis) bis zum 20. August 1999 an den Dekan der Mathematisch-Naturwissenschaftlichen Fakultät / Fachbereich I RWTH Aachen 52056 Aachen zu wenden.

## Postdoctoral Position in Experimental Particle Physics at Yale University

There is a postdoctoral position available at Yale University with the experimental particle physics group. The successful applicant would have the opportunity to work on Opal, SLD (B-mixing), detector development for a future linear collider and the study of lensed quasars (QUEST). The CCD camera for QUEST is currently being upgraded and there are plans to build prototypes of a central tracking system for the future linear collider detector. Therefore, good hardware as well as good analytical abilities are sought. There are also opportunities to initiate new projects.

We are accepting applications now. For further details please contact Homer Neal at [homer.neal@yale.edu](mailto:homer.neal@yale.edu) or Charlie Baltay at [Charles.Baltay@yale.edu](mailto:Charles.Baltay@yale.edu).

Applications, with curriculum vitae and three letters of recommendation should be sent to: Prof. Homer Neal, Physics Department, Yale University, P.O. Box 208121 New Haven, CT 06520-8121, USA

Yale University is an equal opportunity employer.



**NUI MAYNOOTH**  
Ollscoil na hÉireann Mhúaid

**National University of Ireland, Maynooth**

## RESEARCH FELLOWSHIP IN EXPERIMENTAL COSMOLOGY

A post-doctoral post is available to work on the optical design of the HFI instrument on the ESA PLANCK SURVEYOR.

The mission goal is to map the faint anisotropies of the Cosmic Microwave Background providing a unique data source for cosmology.

The work will involve computational modelling of the instrument using physical optics and electromagnetics.

The post is available from October 1999 for two years with a salary of c.a. IR£20,000 p.a., depending on experience.

Candidates should send a detailed CV, together with the names of two referees to: Dr. J. A. Murphy, Department of Experimental Physics, National University of Ireland, Maynooth, Co. Kildare, Ireland.

For further information e-mail: [anthony.murphy@may.ie](mailto:anthony.murphy@may.ie), or visit our web site: <http://www.may.ie/academic/physics>

# University of Toronto

Departments of Mathematics and Physics

## Tenure Track Faculty Position in Theoretical Particle Physics

The Departments of Mathematics and Physics invite applications to a tenured or tenure-stream professorial joint appointment with an expected starting date of January 1, 2000. This is one of several openings in theoretical astrophysics and particle physics.

We seek candidates with a Ph.D in Mathematics and/or Physics with proven or potential excellence in research. Our goal is to hire a mathematical physicist with interests in string theory who will promote interactions among the two departments and the Canadian Institute for Theoretical Astrophysics. We intend to nominate the successful candidate for a CIAR Fellowship in the Canadian Institute for Advanced Research Cosmology and Gravity Program. We invite prospective candidates to visit our home pages at :[www.{math,physics,cita}.utoronto.ca](http://www.{math,physics,cita}.utoronto.ca) and [www.ciar.ca](http://www.ciar.ca). The rank of the appointment and salary will be commensurate with qualifications and experience.

Applications, including a curriculum vitae, a statement of research interests and three letters of reference, should be sent to:

Professor Pekka K. Sinervo  
Chair  
Department of Physics  
University of Toronto  
60 St. George Street  
Toronto, Ontario, Canada  
M5S 1A7

The deadline for the receipt of applications and letters of recommendation is 15 July 1999.

Although first consideration will be given to citizens and permanent residents of Canada, we strongly encourage all qualified candidates to apply. The University of Toronto is committed to employment equity and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disabilities.

# University of Toronto

Department of Physics

## Tenure Track Faculty Position in Theoretical Particle Physics

The Department of Physics plans to make a tenure track appointment to the rank of Assistant Professor with a starting date on 1 January 2000. This is one of several new positions at the University of Toronto that will strengthen theoretical physics, including an advertised position in string theory.

For this position, we seek candidates with a Ph.D. in Physics and proven or potential excellence in both research and teaching whose interests are in theoretical particle physics. We invite prospective candidates to visit our home page at [www.physics.utoronto.ca](http://www.physics.utoronto.ca). The salary will be commensurate with qualifications and experience.

Applications, including a curriculum vitae and three letters of reference, should be sent to:

Professor Pekka Sinervo  
Chair  
Department of Physics  
University of Toronto  
Toronto, Ontario, Canada  
M5S 1A7

The deadline for the receipt of applications and letters of recommendation is 15 July 1999.

Although first consideration will be given to citizens and permanent residents of Canada, we strongly encourage all qualified candidates to apply. The University of Toronto is committed to employment equity and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disabilities.

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- Electrical Engineers
- Cosmologists
- Subatomic, Nuclear, Particle, Astro, High, Medium and Low Energy Physicists.

**For further  
information  
and  
professional  
recruitment  
advice contact**

*Chris Thomas.*

Tel: +44 (0)117 930 1031

Fax: +44 (0)117 930 1178

E-mail:

[chris.thomas@iopublishing.co.uk](mailto:chris.thomas@iopublishing.co.uk)

## POSTDOCTORAL RESEARCH ASSOCIATE POSITION

**Academia Sinica** invites applications for a postdoctoral research associate position to participate in the Alpha Magnetic Spectrometer (AMS) experiment. The initial appointment is two years with possibility of renewal up to 4 years.

**Academia Sinica** is the highest level of research organization in Taiwan, Republic of China. The Institute of Physics is involved in the data acquisition system and the Ring Imaging Cherenkov Counter. The physics topics include proton and positron flux measurements.

The successful applicant is expected to stay at CERN for extended period of time and play a major role in the development of DAQ for the next flight. Applicants should send their Curriculum Vitae, a publication list, and arrange to have three letters of reference sent to:

**Dr. Ping Yeh**  
**Institute of Physics, Academia Sinica**  
**128, Sec. 2, Academia Rd.**  
**Nankang 11529, Taipei, Taiwan, R.O.C.**  
or by e-mail directed to: [pyeh@sinica.edu.tw](mailto:pyeh@sinica.edu.tw).

## POSTDOCTORAL RESEARCH ASSOCIATE

### Experimental High Energy Physics, University of Toronto

Applications are invited for a position as part of the University of Toronto group working in Hamburg on the ZEUS experiment at DESY. Members of our group participate in a wide range of physics analysis efforts on ZEUS and are responsible for the ZEUS Third Level Trigger. Applicants should send a letter stating their research interests, along with a resume and three letters of reference to: **Prof. John Martin, Department of Physics, 60 St. George Street, Toronto, Ontario, M5S 1A7, CANADA.** For further information please contact Prof. John Martin at [martin@physics.utoronto.ca](mailto:martin@physics.utoronto.ca)

Anyone interested is encouraged to apply, but in accordance with Canadian immigration regulations, this advertisement is directed in the first instance to Canadian citizens or permanent residents. The University of Toronto strongly encourages applications by women and members of minority and aboriginal groups.

## U.S. DEPARTMENT OF ENERGY PHYSICIST, GS-1310-14/15

### OFFICE OF SCIENCE OFFICE OF HIGH ENERGY AND NUCLEAR PHYSICS HIGH ENERGY PHYSICS DIVISION

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**GS-15: \$80,658 - \$104,851 per annum**

**PN-99-SC-76-22-045**

The U.S. Department of Energy is seeking applicants for the position of Physicist within the High Energy Physics Division, Office of High Energy and Nuclear Physics, in the Office of Science. The incumbent will serve as the Program Manager for experimental high energy physics activities relating to an advanced detector research and development program. The incumbent will be responsible for establishing goals and objectives as well as providing leadership and direction for this program with national and international scope and impact. Assesses resource needs and develops policies and plans based on review and evaluation of scientific priorities, and defends needs of projects. Prepares, justifies, and supports the advanced detector research and development and related university experimental physics portion of the high energy physics budget. Develops and recommends strategies, plans, milestones, and schedules for assigned program activities. Establishes the need for, organizes and supervises studies, workshops, symposia, and conferences to facilitate the interchange and transfer of scientific and technical information to a wide community of scientists and engineers. A thorough knowledge and understanding of high energy physics, as well as extensive background and experience based on training and substantial research experience in the field, are necessary.

Please refer to Vacancy Announcement PN-99-SC-76-22-045 (reference <http://www.hep.net/doe-hep/home.html>) for specific instructions on how to apply for this position. Applicants must comply with the instructions that are in the vacancy announcement in order to be eligible for consideration. Announcements can be faxed to you by calling 202-586-1705 or mailed to you by calling 301-903-1577.

**Applications must be postmarked no later than September 7, 1999, and should be sent to the U.S. Department of Energy, MA-352, Room F-125, 19901 Germantown Road, Germantown, MD 20874-1290 (ATTN: Sheila Hopkins).**

*The Department is an equal opportunity employer.*

## NATIONAL INSTITUTE FOR NUCLEAR PHYSICS I.N.F.N.

POST-DOCTORAL FELLOWSHIPS FOR NON ITALIAN CITIZENS IN THE FOLLOWING RESEARCH AREAS:

### THEORETICAL PHYSICS (N. 10) EXPERIMENTAL PHYSICS (N. 20)

The I.N.F.N. Fellowship Programme 1999-2000 offers thirty positions for non Italian citizens for research activity in theoretical or experimental physics.

Fellowships are intended for young post-graduates not more than 35 years of age at the time of deadline.

Each fellowship is granted for one year (which may start during the period from September to November 2000), and may be extended for a second year.

The annual gross salary is 42.000.000 Italian Lire, plus travel expenses for round trip transportation from the home fellows to the I.N.F.N. Section or Laboratory. Lunch tickets are provided for work days.

Candidates should submit an application form and a statement of their research interests and arrange for three letters of reference.

Applications must be sent to I.N.F.N. no later than *September 30, 1999.*

Candidates will be informed by the end of January 2000 about the decisions taken by I.N.F.N.'s committee.

The successful applicants may carry out their research activity in Italy, at any of the following Laboratories and Sections of I.N.F.N.:

National Laboratories of Frascati (Rome), National Laboratories of Legnaro (Padua), National Laboratories of Gran Sasso (L'Aquila) and Southern National Laboratory (Catania).

I.N.F.N. Sections in the Universities of:

Turin, Milan, Padua, Genoa, Bologna, Pisa, Rome 'La Sapienza', Rome 'Tor Vergata', Naples, Catania, Trieste, Florence, Bari, Pavia, Perugia, Ferrara, Cagliari, Lecce and Rome 'Tre'

Information, requests for application forms, and applications should be addressed to Personnel Office – Fellowship Service, National Institute of Nuclear Physics (I.N.F.N.) – Post Box 56 – 00044 Frascati (Rome) Italy.

## NATIONAL INSTITUTE FOR NUCLEAR PHYSICS

### THE PRESIDENT

*(Prof. Enzo Iarocci)*