

RECRUITMENT

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Education and research in Telecommunications

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Founded in 1991 by the French Institute of Telecommunications (ENST-TELECOM PARIS), and the Swiss Federal Institute of Technology Lausanne (EPFL), Eurécom is a university-level education and research institute in Telecommunications: 60 academic staff and 100 students (130 in year 2000). The board includes important organisations and research centres and major companies involved in communication and information technology, integrated in the "Telecom Valley" concept. In 1994, Eurécom received from IEEE the Major Educational Innovation Award. The fast evolution of the telecommunications science demands a unique adaptive curriculum. Eurécom is proud to have its alumni already present in the most successful Universities and companies worldwide. It is now a far reaching example of tomorrow's higher education institutes.

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- Personality with a professional vision, solid, reliable, entrepreneur and talented communicator
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- Experience in the management of research teams and projects
- French and English

For increased speed, you may fax ++41 56 401 65 07
or e-mail to us at: nicole.haeffliger@kornferry.com
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UNIVERSITY OF
OXFORD

Department of Physics

Postdoctoral Fellowship in Astroparticle Physics

RS1A - Starting Salary £17,570 p.a.

Applications are invited for the above PPARC funded fixed-term post tenable for two years from 1st October 1999. The successful candidate will be expected to carry out research in astroparticle physics under the direction of Professor G G Ross and Dr S Sarkar.

The research areas of particular interest for this position include cosmological phase transitions, inflation and large-scale structure, baryogenesis, neutrino astrophysics and cosmology, and very high energy cosmic rays.

Further particulars may be obtained from Mrs G Dancey (e-mail: g.dancey1@physics.ox.ac.uk). Applicants should submit a Curriculum Vitae, a list of publications and a brief research plan, and ask three referees to write directly to the Administrator, Department of Physics, Clarendon Laboratory, Parks Road, Oxford OX1 3PU by 15th March 1999.

The University is an Equal Opportunities Employer.

Creighton University



Applications are invited for an immediate research opening in relativistic heavy ion physics. The group is working on the hardware controls system (using EPICS and CDEV) and test data analysis for the STAR experiment.

The successful candidate will have an interest in working with undergraduate and Masters students. He/she should plan to be based at Brookhaven National Laboratory.

Further information: **Michael Cherney Tel: 402-280-3039**
Fax: 402-280-2140 Email: mcherney@creighton.edu.

Applicants should outline their experience with electronic interfaces and controls software. **Physics Department Creighton University**
2500 California Plaza Omaha NE 68178

Creighton University is an Equal Opportunity/Affirmative Action Employer.



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 an

Physicist/Computer Scientist for the Introduction of OO Technologies

The two Colliding Beam Detector Collaborations, H1 and ZEUS, at DESY are developing new methods and tools to handle the increased data volume expected from the Luminosity Upgrade of the HERA ep collider after the year 2000. The two collaborations plan to perform major parts of the physics analysis using Object-Oriented Technologies. In a pilot project a common data format for the two experiments is to be defined and the necessary data analysis environment to be developed. The project team comprises members of both collaborations and of the central computing support group at DESY.

The two experiments H1 and ZEUS and the central computing support group at DESY are looking for highly motivated individuals to participate in this project. People interested should

- have successfully completed a Ph.D. in Physics or Computer Science,
- have an interest in problems related to the handling and analysis of data samples in the multi-TeraByte range,
- have experience or be interested in Object-Oriented Programming Technologies,
- be willing to work closely together in a team consisting of Physicists and Computer Scientists.

The appointment will be at DESY in Hamburg and be initially limited to 3 years. Conditions are those of the German "Bundesangestelltentarif (BAT)".

Interested candidates, 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, Notkestraße 85, D-22607 Hamburg, by April 30th, 1999. Code-No. 16/99

Handicapped applicants will be given preference to others with the same qualifications. Women are especially encouraged to apply.

DIRECTOR

LABORATORY OF NUCLEAR STUDIES

Cornell University has initiated a search for a new Director of the Laboratory of Nuclear Studies (LNS), for a term of five years, renewable, beginning July 1, 2000. The successful candidate will be appointed as a tenured Professor of Physics at Cornell University. LNS includes the CESR storage ring, a particle and astrophysics theory group, and operation of the CLEO detector. It also hosts the CHESSE synchrotron radiation facility.

The search committee welcomes applications or nominations for this position. It is recommended that such applications or nominations be accompanied by curriculum vitae and other information bearing on the candidate's qualifications for the Directorship. Relevant qualifications include leadership, scientific stature, and management skills. Communications should be sent as soon as possible, preferably before May 30, 1999, and addressed to:

Professor Persis Drell, Chair
Director Search Committee
Newman Laboratory, Cornell University
Ithaca, NY 14853, USA



Cornell University
Floyd R. Newman Laboratory of Nuclear Studies

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UNIVERSITY OF GENEVA

The Department of Nuclear and Particle Physics has an opening for a

Research Associate ("Maître-assistant")

The position is available for the participation in the Alpha Magnetic Spectrometer project in space (AMS). Candidates must have a PhD degree in physics with appropriate experience in particle physics and detectors. Responsibilities will include Si detector construction and data analysis as well as teaching duties, in French, at the University. Candidates should not be more than 32 years of age. The position is available for a maximum period of 4 years. The closing date for applications in June 15th, 1999.

Candidates should forward a curriculum vitae and the name of two referees to:

Prof. Maurice Bourquin
Département de physique nucléaire et corpusculaire
24, quai Ernest-Ansermet, CH-1211 GENEVE 4

Additional information can be obtained by
E-mail from: Divic.Rapin@physics.unige.ch



The Department of Particles and Matter seeks for its theory group a

Theoretical Particle Physicist

with emphasis on phenomenology. The appointment will start in spring 2000 or by agreement.

The experimental program in particle physics at PSI consists on the one hand of experiments at CERN (LHC) and DESY (HERA). On the other hand, the properties of these particles as well as of pionic and muonic atoms are studied at PSI with intensive pion, muon and neutron beams.

The successful candidate must have proven accomplishments in theoretical particle physics related to the activities above. He or she is expected to do independent research in the theory group and to interact with the experimental groups at PSI. Moreover, he or she should entertain close relationships with the neighbouring universities and assume part of the administrative duties of the theory group.

For any further information please contact Dr. A. Denner (Tel. +41 56 310 36 62, e-mail Ansgar.Denner@psi.ch) or Dr. R. Rosenfelder (Tel. +41 56 310 36 63, e-mail Roland.Rosenfelder@psi.ch).

Applications containing a curriculum vitae, a list of publications and the names of three referees should be sent before May 31, 1999 to:

PAUL SCHERRER INSTITUT, Personnel Division, ref. code 1411, CH-5232 Villigen, Switzerland.



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.

The H1 Collaboration at DESY is seeking an experienced

Physicist

to coordinate the upgrade of the detector and the interaction region for high luminosity operating of the ep storage ring HERA foreseen in the shutdown of the year 2000. New tracking detectors, silicon detectors and calorimeters will be introduced. Modifications to the existing setup of calorimeters and the introduction of superconducting magnets into the existing H1 experiment have to be coordinated in close collaboration with the DESY groups. Beam induced backgrounds have to be calculated and minimised.

The candidate should have a Ph.D. in physics and long standing experience with the operation of storage ring experiments especially with silicon detectors. A thorough understanding of the requirements of large experiments is indispensable. The candidate should be knowledgeable in all aspects of calculating and handling the beam induced backgrounds, in particular the synchrotron radiation. He or she should be familiar with the infrastructure at DESY.

The position is opened within a contract with the Rheinisch-westfälische Technische Hochschule Aachen and DESY. The successful candidate will be resident at DESY.

The appointment will be indefinite with a salary according to federal tariffs (BAT II a/b depending on experience and qualifications).

Interested applicants should send a curriculum vitae, a list of publications and the names of three referees to:

DESY, Personalabteilung, Notkestraße 85, D-22607 Hamburg, by April 15th, 1999. Code-Name: Koop-Aachen

Handicapped applicants will be given preference to others with the same qualifications. Women are especially encouraged to apply for this position.



HALL C LEAD DESIGNER (Position #PR4020)

Jefferson Lab has an excellent opportunity for a Designer to lead the design effort for Hall C. Incumbent will be responsible for setting and maintaining design standards, checking all design products for adherence to good design standards, and in conjunction with the lead engineer, sharing responsibility for proper functioning of all designs. Works from sketches and verbal descriptions to develop mechanical designs of complex systems and assemblies. Sizes components using standard nomographs and formulas, and chooses components and fasteners based on expected loads and applicability for function. Responsible for supervising Hall C design staff. Plans design work, and selects parts and details from assemblies and models. Maintains the design log and the design files structure for Hall C, and oversees proper file organization and archiving.

Minimum Qualifications: A.A.S. Degree in Mechanical Design plus fifteen years experience or the equivalent combination in education and training. Design experience in directly applicable areas (e.g., superconducting magnets, cryogenic systems, high vacuum systems, nuclear or high-energy particle detectors, nuclear shielding, etc.) At least five years commensurate supervisory experience. CAD experience with the Hewlett Packard ME-10 and SDRC IDEAS Master Series 6 and familiarity with ANSI 14.5 required. Must have extensive direct design experience in most of the following areas: Superconducting Magnets, Cryogenic systems, High Vacuum systems, Cryogenic Nuclear Physics targets, Nuclear or High Energy particle detectors, large movable steel structures, nuclear shielding, lifting and handling fixtures and remote manipulators.

The starting salary range for the position is \$53,000 - \$83,900. For prompt consideration, please submit resume specifying position number and job title to: Jefferson Lab, ATTN: Employment Manager, 12000 Jefferson Avenue, Newport News, VA 23606.

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Experimental Research Associates

The Stanford Linear Accelerator Center (SLAC) is one of the world's leading laboratories supporting research in high-energy physics. The laboratory's program includes the physics of high-energy electron-positron collisions, high-luminosity storage rings, high-energy linear colliders, and particle astrophysics.

Postdoctoral Research Associate positions are currently available with opportunities to participate in the laboratory's research program, with particular emphasis on:

- Preparing for B physics with the BABAR detector at the PEP II Asymmetric B Factory, helping to tune up the BABAR Detector hardware and software for operations and to get ready for physics analysis
- Participating in a Particle Astrophysics program studying time-dependent x-ray sources with the USA, and R&D for a high-energy gamma-ray astronomy experiment in space (GLAST)

These positions are highly competitive and require a background of research in high-energy physics and a recent Ph.D. or equivalent. The term for these positions is two years and may be renewed.

Applicants should send a letter stating their physics research interests, along with a CV and three references, to: Tanya Boysen, tkb@slac.stanford.edu, Research Division, M/S 80, SLAC, P.O. Box 4349, Stanford, CA 94309. Equal opportunity through affirmative action. Visit our Web site at: www.slac.stanford.edu.

Stanford Linear
Accelerator Center
SLAC

MIT COMPUTER FACILITY MANAGER

The Laboratory for Nuclear Science seeks an individual to manage the overall delivery of both research and administrative computer services. The computer facility provides Digital UNIX and Linux operating system environments for the theoretical and experimental high energy and nuclear physics research computing programs at MIT. There is an expanding Windows/NT presence in the research areas. The lab maintains its own subnet within MIT. The Computer Group provides network connectivity for several hundred hosts and multiple protocols. This group also supports Windows NT and ORACLE for the financial and administrative groups.

Requirements: an advanced degree in a technical field, preferably with a background in physics. Must have a minimum of five years of relevant experience, at least two of which must be managerial experience at a complex computing facility, preferably in an education and/or research environment. Must possess excellent written, verbal, and interpersonal communication skills. Should be capable of capitalizing on new developments in the computing field to enhance the quality of computing support. Must be able to organize, budget, and manage the staff to implement and deliver these new relevant technologies to the laboratory in a timely manner. Visit our website: <http://www-lns.mit.edu>

Interested candidates should submit a resume and cover letter referencing Job No. 99-0133R to: Kenneth Hewitt, MIT Personnel, PO Box 391229, Cambridge, MA 02139-0013. To apply on-line: web.mit.edu/personnel/www/resume.htm.



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**Departamento de Física Teórica, Atómica y Molecular
Universidad de Valladolid, Spain.**

Candidates are invited for a post-doctoral position to work on the electronic structural and transport properties of carbon and composite-nanotubes with particular emphasis on theoretical calculations of interest for: STM microscopy, nanodevices, chemical activity, mechanical behaviour, optical response. Knowledge of molecular dynamics and electronic structure calculations desirable.

The position, included in an EU-funded TMR Network on Nanotubes for "Microstructure Technology" (NAMITECH) is immediately available and is for two years.

Details on how to apply and restrictions may be found at:
<http://www.fam.cie.uva.es/~arubio>.

PhD Programs

Ohio University, Department of Physics and Astronomy,
Athens - USA

The Department of Physics and Astronomy at Ohio University currently has openings for graduate students in the MS and PhD programs. Areas of specialization are nuclear and particle physics, solid state and surface physics, astrophysics, nonlinear dynamics, chaos, and applications to neuroscience. The department awards Graduate Teaching and Research Assistantships with annual stipends ranging from \$14,000 to \$14,900 plus tuition.

Further information can be found at
<http://www.phy.ohiou.edu/programs.html> or obtained from the Department of Physics and Astronomy, Ohio University, Athens, OH 45701, USA. E-mail: elster@ohiou.edu



**Imperial College of
Science, Technology
and Medicine London**

Lectureship in High Energy Physics

Applications are invited for the post of Lecturer in High Energy Physics at the Blackett Laboratory, Imperial College, London.

The group's active experimental programme embraces the ALEPH experiment at LEP, the ZEUS experiment at HERA, the BABAR experiment at SLAC, the CMS and LHC-B experiments at LHC and the UK Dark Matter Experiment. It has also recently joined the D0 experiment at the Tevatron. Within the group there is a strong tradition of detector development and construction which has led to key activities in the above experiments. Further details of the group's programme may be found on:

<http://www.hep.ph.ic.ac.uk/>

It is anticipated that the starting date for this position will be October 1st, 1999 and that the appointee will initially take responsibility for the new D0 activity.

Following a successful 3 year probationary period this will become a tenured teaching position.

Salary will be in the range £16,655 - £29,048 plus £2,134 London allowance.

Further information may be obtained from

Professor P J Dornan,
Blackett Laboratory, Imperial College, London SW7 2AZ, UK.
Email: PDornan@ic.ac.uk

to whom applications, comprising a curriculum vitae, a list of publications and the names and addresses of three referees should be sent, by **10 May 1999**.

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To apply, please send your CV and current salary details to:

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DISCUSSION MEETING



Magnetic Activity In Stars, Discs And Quasars

Discussion Meeting on 19-20 May 1999 (all day)
Organisers: Professor D Lynden-Bell, Professor ER Priest and Professor NO Weiss
Greatly improved data are giving new stimulus to magnetic theories of the heating of the coronae of stars, to the understanding of angular momentum transport in accretion discs, and to theories of the collimation of the jets from them. Such jets long known in radio-galaxies and quasars are now seen around young stars and in the superluminal micro-quasars within the Galaxy. X-ray bursts may themselves be related to the jet phenomenon.

Geomagnetic Polarity Reversals And Long Term Secular Variation

Discussion Meeting on 7-8 July 1999 (all day)
Organisers: Professor D Gubbins, Professor D Kent and Professor C Laj
The Earth's magnetic field changes in response to fluid flow in the liquid iron core, leaving a record in magnetised rocks. This meeting will bring together theoreticians developing increasingly sophisticated computer models of the Earth's dynamo with experimentalists making detailed analyses of the magnetic record.

There is no charge for registration for Discussion Meetings
Further details can be obtained from: Science Promotion Section,
The Royal Society, 6 Carlton House Terrace, London, SW1Y 5AG
Tel: 0171 451 2574/2575; Dept Fax: 0171 451 2693
Email: discussion.meetings@royalsoc.ac.uk; WWW: <http://www.royalsoc.ac.uk>
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