

# RECRUTEMENT

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## Director

### Fermi National Accelerator Laboratory



The Fermilab Board of Overseers of Universities Research Association, Inc. (URA) has initiated a search for a new Director of the Fermi National Accelerator Laboratory in Batavia, Illinois. The position, for a term of five years with the possibility of extension for a mutually agreed time, will be available July 1, 2005. The Search Committee welcomes applications and nominations for this position. It is recommended that applications be accompanied by curriculum vitae and other information bearing on the candidates' qualifications for the

Directorship. Relevant qualifications include scientific stature, leadership capability, and management skills. The membership of the Search Committee and its charge are posted at

<http://www.fnal.gov/directorsearch>.

Communications should be sent as soon as possible, preferably before May 15, 2004, and should be addressed to:

**Ezra Heitowit, Vice President**  
**Universities Research Association, Inc.**  
**Suite 400, 1111 19th Street, N.W.**  
**Washington, D.C. 20036**  
**e-mail: [search@ura.nw.dc.us](mailto:search@ura.nw.dc.us)**

A consortium of ninety major research universities,  
URA operates Fermilab under contract with the U.S. Department of Energy  
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## Max Planck Institute for Physics

(Werner Heisenberg Institute)



MAX-PLANCK-GESELLSCHAFT

## 2 Postdoctoral Positions 1 Software Developer Position in Experimental High-Energy Particle Physics

The Max-Planck-Institut für Physik (MPI) is one of the world's leading research institutes focused on particle and astroparticle physics from both an experimental and a theoretical perspective. Our research activities comprise participation in the H1 and ZEUS experiments at HERA, the STAR experiment at RHIC and the ATLAS experiment. ATLAS is presently under construction to operate at CERN's Large Hadron Collider (LHC) starting from 2007. The scientific focus of the ATLAS collaboration is the search for the Higgs boson (the particle at the origin of particle masses), precision measurements of top- and b-quark physics, and the search for new physics beyond the Standard Model, e.g. Supersymmetry. The MPI contributes to the construction of three sub-detectors for ATLAS, the Liquid Argon Calorimeter (LAR), the Monitored Drift Tubes for the muon system (MDT) and the Semiconductor Tracker (SCT).

The MPI invites applications for **two postdoctoral positions** in experimental elementary particle physics to strengthen our MDT and SCT Groups. We are seeking for candidates to contribute both to the construction, testing, quality assurance and installation of detector modules, and to preparations of the physics analyses. Candidates should have a PhD in experimental physics with a solid background in elementary particle science. The positions are limited to three years, with the possibility of extension within the rules of the German Hochschulrahmengesetz.

Applications are also invited for the position of a **software engineer** or a **physicist** who will participate in developing software for calibration, integration, alignment, readout and reconstruction within the ATLAS project. The candidate should contribute both to sub-detector specific tasks at our institute and to the development of the ATLAS core software at CERN. The candidate must have significant development experience with an object-oriented environment, with the UNIX operating system in a scientific environment and with the C++ programming language. Experience in relational database systems like ODBC, Oracle or MySQL, knowledge of other programming languages like Perl or Python and experience and interest in GRID computing will be of additional advantage. The candidate should at least have an M.S. degree in computer science, physical science or mathematics. The position is initially limited to two years.

Salaries for all positions are according to the German federal pay scale (BAT). Applications from women are particularly welcome. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply.

For more information on the institute and its research see our internet homepage <http://www.mppmu.mpg.de>.

Interested individuals should send their application, including statements of interest, CV, list of publications and the names and addresses of three suitable referees, to

## Max Planck Institute for Physics

(Werner Heisenberg Institute)

Prof. Dr. Siegfried Bethke  
Föhringer Ring 6,  
80805 München, Germany



TECHNISCHE  
UNIVERSITÄT  
DRESDEN

An der Fakultät Mathematik und Naturwissenschaften ist an der Fachrichtung Physik zum 01.04.2005 die

### C4 - Professur für Teilchenphysik

(Nachfolge Prof. K. R. Schubert) zu besetzen. Der/Die Stelleninhaber/in soll die Teilchenphysik in Forschung und Lehre vertreten. Er/Sie soll herausragende Erfahrungen in der Planung, Leitung und Auswertung von Experimenten an Beschleunigern vorweisen können. Die Weiterführung der erfolgreichen Dresdner Beteiligung am BABAR-Experiment ist erwünscht. Darüber hinaus wird ein starkes Engagement für ein neues und zukunftssträchtiges Projekt der Teilchenphysik erwartet. Der/Die Stelleninhaber/in soll die Experimentalphysik in der Lehre im Studiengang Physik sowie in anderen Studiengängen der Naturwissenschaften, Ingenieurwissenschaften und Medizin vertreten. Eine angemessene Beteiligung an allgemeinen Aufgaben der Fachrichtung Physik wird erwartet.

Die Bewerber/innen müssen die Einstellungsvoraussetzungen gemäß § 40 des Sächsischen Hochschulgesetzes vom 11.06.1999 erfüllen. Dazu gehört die Habilitation oder der Nachweis einer gleichwertigen wissenschaftlichen Leistung. Es wird darauf hingewiesen, dass sich die besoldungsrechtlichen Grundlagen im Laufe des Ausschreibungs- und Bewerbungsverfahrens der - infolge bundesgesetzlicher Neuregelungen zur Reform der Professorenbesoldung - erforderlich gewordenen landesgesetzlichen Regelungen ändern können.

Frauen sind ausdrücklich zur Bewerbung aufgefordert. Bewerbungen Schwerbehinderter werden bei gleicher Eignung bevorzugt berücksichtigt.

Ihre Bewerbung richten Sie bitte mit tabellarischem Lebenslauf, Darstellung des wiss. Werdeganges u. der bisherigen Lehrtätigkeit, Verzeichnis der wiss. Arbeiten und Kopien der Urkunden der wiss. Ausbildung bis zum 30.04.2004 an:  
TU Dresden, Dekan der Fakultät Mathematik und Naturwissenschaften, Herrn Prof. Dr. G. Soff, 01062 Dresden.

**PhysicsJobs@physicsweb.org**



## The Lawrence Langer Research Fellowship



This special research fellowship is named after Lawrence Langer who performed pioneering research on beta decay and neutrino mass measurements. The fellowship is awarded to an outstanding post-doctoral scientist who is at an early point in a promising career.

Candidates for this fellowship must have displayed outstanding potential in subatomic physics research, and must show definite promise of becoming leaders in the academic research community. A Ph.D. in experimental subatomic physics is required. Fellowships will be awarded for a three-year term. Langer Fellows, who will be competitively selected, are given the freedom of associating with IUCF faculty members in a research area of common interest.

The I.U. subatomic physics group has an active program with experiments to study nucleon structure, nuclear dynamics, and the properties of the weak interaction. The wide range of questions being addressed by 11 faculty members involve leadership roles in studies of parity violation and quark mixing matrix unitarity with low-energy neutron beams at LANSCE, NIST and SNS; flavor and spin structure of the nucleon at RHIC with the STAR detector; neutrino oscillations and scattering with the miniBooNE experiment and proposed follow-ups at Fermilab. Local facilities include a 200 MeV cyclotron, a 240 MeV synchrotron, and a new cold Neutron Source currently under construction. While the major programs on the first two of these no longer include nuclear physics, they do provide excellent facilities for development and testing. The laboratory also provides excellent personnel infrastructure to enable strong participation in major off-site projects. Opportunities are available on all major research projects. For further information, please access our Web site at <http://www.iucf.indiana.edu>.

The Lawrence Langer Research Fellowship carries a stipend of \$55,000 per annum, with an additional allocation of up to \$20,000 per annum for research support and travel.

Send résumé, bibliography and contact information for three references by June 30 to

**Dr. John M. Cameron, Director**  
**Indiana University Cyclotron Facility**  
**2401 Milo Sampson Lane, Bloomington, IN 47408**  
**FAX: 812-855-6645 Email: [cameron@iucf.indiana.edu](mailto:cameron@iucf.indiana.edu)**



*IU is strongly committed to achieving excellence through cultural diversity.*

*The university actively encourages applications and nominations of women, persons of color, applicants with disabilities, and members of other underrepresented groups.*

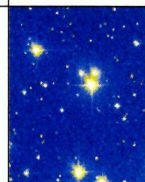
*Indiana University is an Affirmative Action/Equal Employment institution.*



## SENIOR APPLIED PHYSICIST FOR X-RAY DETECTOR DEVELOPMENT

Praesepe is a Netherlands-based company which specialises in data analysis and instrumentation for X-ray and gamma-ray astronomy (see [www.praesepe.com](http://www.praesepe.com)). We currently have a vacancy for a Senior Applied Physicist to lead a programme to develop compound semiconductors for use as hard X-ray and gamma-ray detectors. The work will be undertaken as part of the laboratory research programme of the Advanced Concepts and Science Payloads Office of the European Space Agency (ESA). The project will be based in the ESTEC laboratory of ESA in Noordwijk, The Netherlands.

The ideal candidate will have sufficient experience to lead a solid-state detector project both from a scientific and an engineering point of view. In addition a knowledge of general techniques in X-ray and gamma-ray radiation analysis, are essential. The candidate should be able to plan and execute measurement campaigns without supervision. The ability to analyse data in support of device physics interpretation is important. The candidate must also have the ability to specify and coordinate work undertaken by industrial contractors and academic collaborators. Familiarity with cryogenic equipment, computer interfaces to experiments, radioactive source handling and measurement campaigns and national accelerator facilities would be valuable.



**Applications with CV to**  
**Praesepe B.V., Lorentzplein 7, 2012 HG**  
**Haarlem, The Netherlands.**

**Preferably by email ([info@praesepe.com](mailto:info@praesepe.com))**  
**or by FAX +31-23-5510910.**

## Peoples Fellows Program

The Peoples Fellowship Program at Fermilab supports accelerator scientists and high energy physicists early in their careers by providing unique opportunities for self-directed research in accelerator physics and technology. The Fermilab accelerator complex provides beams for collider physics at the energy frontier, and high intensity beams for neutrino physics and other fixed target programs. Current areas of accelerator research include stochastic and electron cooling, muon cooling, superconducting magnet R&D, superconducting RF R&D, linear colliders, large hadron colliders, advanced acceleration methods, accelerator controls and feedback, and computational physics and modeling.

The fellowships are awarded on a competitive basis to Ph.D. physicists of exceptional talent as evidenced by their graduate or postdoctoral work. Peoples Fellowships are open to accelerator scientists within three years of receiving their Ph.D. and to high energy physics post-docs within 5 years of their Ph.D. Fellows will work at Fermilab in areas of accelerator physics or technology of their choice. Peoples Fellowships are tenure track positions with an initial term appointment of three years.

Applicants should submit a statement describing a proposed research program, a curriculum vitae, and the names of at least four references no later than April 30, 2004. Applications, either in paper or electronic form, and requests for information should be sent to:

**James Strait, Chair, Peoples Fellows Committee**  
**Fermi National Accelerator Laboratory, MS 343**  
**P.O. Box 500, Batavia, IL 60510-0500**  
**e-mail: [strait@fnal.gov](mailto:strait@fnal.gov)**

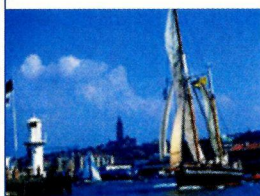
<http://www.fnal.gov/pub/forphysicists/fellowships/peoples.html>



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- Towards Exotic Nuclei
- Nucleus-Nucleus Collisions
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## UNIVERSITY OF FLORIDA

Postdoctoral or Senior Research Associate  
High Energy Experimental Physics

The Institute of High Energy Physics and Astrophysics at the University of Florida invites applicants for a Postdoctoral Research Associate or Senior Research Associate position to work on the CMS Experiment at the Large Hadron Collider, CERN. The University of Florida is one of the leading university groups in the CMS experiment, contributing strongly to the physics program, development of the detector, trigger, software and computing.

The successful candidate will be expected to focus on the development of the CMS physics program and contribute to the CMS offline and possibly online software. Good data analysis skills in the context of high energy physics experiments are essential. Broader experience with high energy physics detectors and electronics is a plus. Ph.D. degree in physics is required.

The initial term of this position is two years with the possibility of extension, subject to the availability of funds. Longer initial appointments for highly qualified candidates are possible.

Salary will be commensurate with experience.

Resume and three letters of recommendation are to be sent to

the Search Committee c/o Dee Dee Carver,  
Physics Department, University of Florida, P.O. Box 118440,  
Gainesville FL 32611  
(dcarver@phys.ufl.edu).

In order to ensure full consideration, applications should be received by May 7, 2004. The position will remain open until filled.

*The University of Florida is an Equal Opportunity, Affirmative Action Institution.*

## CERN COURIER RECRUITMENT BOOKING DEADLINE

**June issue:**

**7 May**

**Publication date:**

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**Contact**

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