

# RECRUITMENT

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## DIRECTOR OF TRIUMF



TRIUMF is Canada's national research facility for particle and nuclear physics. We are located on the campus of the University of British Columbia, and are operated by a national consortium of universities, and funded by a contribution from the National Research Council of Canada. TRIUMF is a leader in particle and nuclear physics and accelerator development in Canada and abroad, through international partnerships. At TRIUMF, a 520 MeV H<sup>-</sup> cyclotron provides beam to a large number of experimental facilities including an advanced new radioactive beam facility, ISAC. Our facility provides key infrastructure support for the Canadian Particle Physics program as well as for leading research programs in molecular and materials science and life sciences. TRIUMF employs 375 scientists, engineers, technicians, and general staff and some 400 scientists visit from institutions worldwide to conduct experiments.

THE DIRECTOR will have the overall responsibility for the operation and development of TRIUMF and its program of science at the national and international level, as well as the authority for critical decisions involving the securement and management of the total operating budget, the safety of all workers, and changing or implementing policies, internal systems and programs.

The successful candidate will have a proven track record for attracting operational and capital funding for research projects; demonstrated leadership abilities, insight and vision; and an outstanding international research record. In addition, he/she will have achieved international stature in the fields of particle and nuclear physics and in the organization of activities related thereto. Qualifications include experience with the administrative and financial matters associated with a multi-million dollar project; strong communication, interpersonal, negotiating and relationship building skills; and an advanced degree in a physics related discipline with at least 15 years experience in a senior role.

The Director position is subject to a five-year initial appointment that is renewable. This position is available May 1, 2007. Additional information about TRIUMF can be found at <http://www.triumf.info/public/> and a more detailed description of the position can be found under "Employment Opportunities" **Competition No. 995**. Salary will be commensurate with responsibilities. Please note the position is open to all qualified applicants, and in the case of equal qualifications, preference may be given to a Canadian Citizen or Permanent Resident.

Applications should be addressed to: **Dr. Pekka Sinervo, Chairman of the Search Committee, c/o Office of the Dean, Faculty of Arts and Science, University of Toronto, 100 St. George Street, Toronto, ON, M5S 3G3.**

GSI Darmstadt one of the leading laboratories in heavy ion and hadron physics, member of the Helmholtz Association invites applications for a

## Staff position in Theoretical Nuclear Structure and Nuclear Astrophysics (tenure track)

Ref. No.: 1800-06.15

We are seeking an outstanding individual with expertise in the microscopic description of nuclear structure and nuclear reactions as well as their applications to important processes in astrophysics.

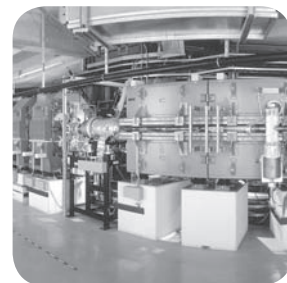
He/she is expected to strengthen the theoretical activities in the development of modern many-body methods, which also account for the relevant correlations. The aim is a unified description of the structure of atomic nuclei as well as nuclear processes and reactions relevant to astrophysics.

The position is limited to a term of 5 years.

GSI is an equal opportunity, affirmative action employer and encourages applications of women. Disabled applicants will be given preference over other applicants with comparable qualifications.

Applications including curriculum vitae, list of publications and statement of research and teaching experience should be sent not later than **26.05.2006** to

**GSI**  
Darmstadt



Gesellschaft für  
Schwerionenforschung mbH  
Personalabteilung  
Ref. No.: 1800-06.15  
Planckstraße 1  
64291 Darmstadt  
GERMANY

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Contact us at: [recruitment@esrf.fr](mailto:recruitment@esrf.fr)

# ETH

Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

The Institute of Particle Physics of the ETH Zürich invites applicants for the position of a Postdoctoral

## PHYSICIST

in experimental particle physics to work on the CMS experiment at the Large Hadron Collider LHC at CERN. As a member of our research group, the selected candidate is expected to take a leading role in performing physics analysis, in close collaboration with the other CMS research groups at the Paul Scherrer Institut (PSI) and ETH.

Profile: The candidate is expected to have a PhD in particle physics and an excellent record of successful work in this field. Further requirements include: competence in detection techniques, experience in data analysis, programming skills, and a potential for making a significant contribution to the scientific program.

Candidates are required to actively participate in the teaching duties, which includes tutoring of students.

The initial term of this position is two years with the possibility of extension for a further three years. Interested candidates are asked to submit an application by June 30, 2006, together with a letter of motivation, the names and addresses of three referees, a curriculum vitae and a list of publications.

Prof. R. Eichler, Inst. of Particle Physics,  
5232 Villigen-PSI, Switzerland

For further information, please contact Prof. R. A. Eichler  
(email: [Ralph.Eichler@psi.ch](mailto:Ralph.Eichler@psi.ch)).

## Max Planck Institute for Physics

(Werner Heisenberg Institute)



MAX-PLANCK-GESELLSCHAFT

The Max-Planck-Institute of Physics invites applications for a

### Postdoctoral position

for the GERDA project, a new experiment to be located at the Gran Sasso National Laboratory.

The GERDA experiment is designed to investigate the nature of the neutrino and its absolute mass-scale by searching for the neutrinoless double-beta decay of  $^{76}\text{Ge}$ . The goal is to either establish the Majorana nature of the neutrino or push the relevant exclusion limits to the mass-scale indicated by neutrino oscillations. The experiment uses the novel approach of shielding crystals with a cryogenic liquid.

The Max-Planck-Institute is one of the leading institutes in the project. The institute is responsible for the design and construction of new germanium detectors, the detector suspension and insertion system and the corresponding infrastructure. It is also involved in the software to support simulation and analysis. The successful candidate is expected to contribute in both sectors.

Salary and benefits are commensurate with public service organizations (TVöD). The contract is initially limited to 2 years with the possibility of an extension. Candidates should have good knowledge and working experience in experimental particle, astroparticle or low background physics. The Max Planck Society wishes to increase the participation of women in its research activities. Therefore, applications from women are particularly welcome. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply.

Interested applicants should submit an application letter, a statement of research interests, a curriculum vitae, a list of publications, and arrange for three letters of support to be sent to

#### Max-Planck-Institut für Physik

Prof. Allen Caldwell  
Föhringer Ring 6, D-80805 München

Further information can be obtained from Prof. Allen Caldwell (Email: [caldwell@mppmu.mpg.de](mailto:caldwell@mppmu.mpg.de)) or Dr. Iris Abt (Email: [isa@mppmu.mpg.de](mailto:isa@mppmu.mpg.de)).

### Toohig Fellowships Accelerator Science & Engineering

The U.S. LHC Accelerator Research Program, LARP, is pleased to announce postdoctoral research positions in accelerator science for recent Ph.D.s in physics or engineering. These positions are explicitly for studies and activities concerning CERN's Large Hadron Collider. The term of the Fellowship is two years, extendable to three. Approximately half of the fellowship time is expected to be spent at CERN and the remainder at a U.S. Department of Energy (DOE) laboratory involved in the LARP collaboration.

LARP is a collaborative initiative of the U.S. DOE Office of High Energy Physics in the Office of Science and the U.S. DOE laboratories. LARP's mission is to study and improve the operation of the LHC by helping with commissioning activities, by participating in accelerator research on the collider, and by pursuing R&D on instruments, magnets, and other equipment that could facilitate LHC operations and increase its luminosity.

The laboratories presently involved in LARP are Brookhaven National Laboratory, Fermilab, Lawrence Berkeley National Laboratory, and the Stanford Linear Accelerator Center. The choice of resident laboratory for each Fellow will be negotiated, and will depend on the individual's research interests. The present activities of LARP include accelerator instrumentation and diagnostics, advanced superconducting magnet R&D, and beam-physics calculations and simulations. LARP scientists, engineers and postdocs, including Toohig Fellows, will participate in the commissioning of the equipment and beams of the LHC, and other activities that might become part of the LARP mission, as needs and resources clarify.

The Toohig Fellowships are established in honor of the late Dr. Timothy Toohig, a physicist and Jesuit priest, who devoted his life to promoting accelerator science and to increasing understanding, communication and collaboration among scientists of all nations and religions.

A recent Ph.D. degree in physics or engineering (or its equivalent) is required. Letters of application, indicating your interest in becoming a Toohig Fellow, with an outline of your research interests, a CV, and the names and addresses of three references, must be received prior to June 1, 2006. Please send your application to:

Dr. Peter Limon  
Toohig Fellowship Committee  
Fermilab  
P.O. Box 500, MS-316  
Batavia, IL, U.S.A. 60510-0500  
[plimon@fnal.gov](mailto:plimon@fnal.gov)

LARP and the U.S. Department of Energy are Equal Opportunity/Affirmative Action Employers M/F/D/V



**DESY is world-wide one of the leading accelerator centres exploring the structure of matter. The main research areas range from elementary particle physics over various applications of synchrotron radiation to the construction and use of X-ray lasers.**

DESY plays a leading role in the development of new detector technologies for the International Linear Collider (ILC) which is being designed in a worldwide collaboration. In the framework of the EU funded Integrated Infrastructure Initiative EUDET DESY is looking for several

## Physicists (m/f)

to be based in Hamburg and Zeuthen. Within a European cooperation larger detector prototypes will be constructed which will permit the continuation of R&D work on major components of the ILC detector. The work areas of the successful candidates include design and construction of a hadron and a forward calorimeter, a field cage for a time projection chamber and a high resolution pixel telescope based on CMOS ASICs, as well as the assistance to the project management.

Applicants should hold a Ph.D. in physics, preferentially in experimental particle physics and have experience in detector operation and data analysis. Very good knowledge of English is required. Further information can be obtained from J. Mnich (+49 40/8998-1921, Joachim.Mnich@desy.de). Please send your complete application papers by indicating the reference number to our personnel department.

These positions are limited to 3 years.

Salary and benefits are commensurate with public service organisations. DESY operates flexible work schemes, such as flexitime or part-time work. DESY is an equal opportunity, affirmative action employer and encourages applications from women. DESY has a Kindergarten on site.

### Deutsches Elektronen-Synchrotron DESY

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email: personal.abteilung@desy.de

**Deadline for applications: May 31, 2006**

# Director

Brookhaven Science Associates LLC (BSA) announces the search for Director of the Brookhaven National Laboratory (BNL). The BSA Board comprises representatives from the partners Stony Brook University and Battelle Memorial Institute as well as from the six collaborating universities that are core participants in the missions of the Lab: Columbia, Cornell, Harvard, MIT, Princeton, and Yale.

Founded in 1947, Brookhaven National Laboratory is located on Long Island in Upton, New York, and is one of five multipurpose laboratories operated by the Office of Science of the U.S. Department of Energy. The Laboratory's primary mission is scientific research in fields frequently requiring the design, construction and operation of complex facilities for external users as well as for its own scientists. BNL scientific programs are organized in five directorates: Basic Energy Sciences, Energy/Environment/National Security, High-Energy and Nuclear Physics, Life Sciences, and Light Sources. Major facilities include the Relativistic Heavy Ion Collider (RHIC), the National Synchrotron Light Source (NSLS), and the Center for Functional Nanomaterials (CFN). The Laboratory has over 2,600 employees, an annual budget of approximately \$500 million, and more than 4,500 scientific users of its facilities per year.

The Director of Brookhaven National Lab also serves as President of BSA. The new director must have strong scientific credentials, experience in developing and operating a complex scientific organization, and demonstrated success in engaging all the stakeholders associated with the functioning of such an organization.

Nominations and expressions of interest should be submitted, in total confidence, to:

**Shelly Weiss Storbeck, Managing Director**

**A.T. Kearney Education Practice**

**333 John Carlyle Street,  
Alexandria, VA 22314**

**Telephone: 703-739-4613**

**Fax: 703-518-1733**

**E-mail may be addressed to [BNL@es.atkearney.com](mailto:BNL@es.atkearney.com)**

For best consideration, please submit applications or nominations no later than May 15, 2006. Electronic submissions are particularly encouraged.

Further information about BNL can be found on the website: [www.bnl.gov](http://www.bnl.gov)



[www.bnl.gov](http://www.bnl.gov)

# EPAC<sup>06</sup>

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At our Nuclear Physics Institute (IKP) we have a vacancy to be filled as soon as for a

## PHYSICS or ENGINEERING GRADUATE

Specializing in electrical or mechanical engineering with knowledge of experience in physical technology, magnet technology and cryogenics

- Ref. 013/2006 -

The department of „Large-scale Nuclear Physics Equipment“ of the Nuclear Physics Institute (IKP) is cooperating with the Society for Heavy Ion Research (GSI) Darmstadt and the TSL Uppsala, Sweden, in designing and developing the High-Energy Storage Ring (HESR), part of the new upgrading project for the „Facility for Antiproton and Ion Research“ (FAIR) for GSI.

In addition to this project, the department is also concerned with the operation and further development of the COSY Jülich cooler synchrotron for the provision of unpolarized and polarized proton and deuteron beams with high phase space density by electron cooling and stochastic phase space cooling in order to implement internal and external experiments for medium-energy and hadron physics.

### Tasks:

- development, testing, construction and commissioning of superconducting magnets
- preparing concepts for the cryogenic supply of superconducting magnets
- after an induction period, responsibility for technical project management of design and development work for HESR
- involvement in the operation and further development of the COSY accelerator ring.

### Requirements:

- experience in the design, implementation and operation of superconducting magnets
- relevant knowledge and experience in the fields of magnet technology and cryogenic engineering
- ability to work in radiation protection areas
- staff leadership skills
- willingness to work flexible hours and to undertake on-call duties
- readiness to work as part of an international team.

The position initially involves a three-year fixed-term contract.

Part-time employment is possible in principle.

Equal opportunities is a cornerstone of our staff policy. Applications from disabled persons are welcomed.

The salary will be based on the Collective Agreement for the Civil Service (TVöD).

Your application should be sent to:

Forschungszentrum Jülich GmbH  
Geschäftsbereich Personal  
– Personalbetreuung –  
52425 Jülich, Germany  
Telefon: +49 (0)2461 61-5358

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Further information at: [www.fz-juelich.de](http://www.fz-juelich.de)

## ASSOCIATE SCIENTIST

Fermilab works as the world's leading particle physics lab because of people power—the people who work at Fermilab, the people who make it a community as well as a research institution.

Always a strong proponent of "physics without borders," Fermilab is host to almost 3,000 scientists and students who take part in the lab's experiments—some 1,800 from 106 institutions in 37 states in the U.S., and over 1,100 from 153 institutions in 31 foreign countries. Men and women of all backgrounds and nationalities work side by side in the quest to learn the universe's deepest secrets.

Due to current needs at the lab, we are seeking qualified applicants for the following career opportunity - **Associate Scientist**.

### Responsibilities:

The Fermilab Technical Division (TD) designs, develops, builds and tests components for the Fermilab accelerators and detector complex, and is the leader in R&D for future high-energy physics accelerators. In particular, the SRF Development Department of TD is involved in the design and research of accelerators based on conventional and superconducting RF technology. As part of a world-class team comprised of physicists, engineers, designers and technicians, the successful applicant will address beam physics issues for the International Linear Collider (ILC).

### The successful candidate will:

- Implement and lead, with the help of physicists and engineers, a Main ILC Linac design program at Fermilab including the design of a Main Linac lattice to achieve performance goals.
- Develop a conceptual design of the alignment techniques for cost reduction, reliable operation and performance improvements.
- Be responsible for analysis of the hardware failure on the linac performance.
- Develop, implement and debug new software systems to study alignment issues and develop simulations of positioning tolerances and vibrational effects in realistic models.
- Participate in existing laboratory and University collaborations and possibly supervise graduate student research.
- Develop, present and defend ideas to engineering and physics colleagues.
- Present results at conferences and workshops.

### Requirements:

- A PhD in Accelerator Physics or Superconducting RF Technology or equivalent degree in a closely related field is required.
- At least three (3) years of post-doctoral experience in High Energy and/or Experimental Accelerator Physics.
- A demonstrated ability to carry out independent research and/or project leadership in experimental physics.
- Excellent oral and written communication skills are required, as evidenced by a strong record of publications in professional journals and presentations at international conferences.

Candidates interested in this opportunity should apply online at:

[https://fermi.hodesiq.com/job\\_detail.asp?JobID=639827&user\\_id](https://fermi.hodesiq.com/job_detail.asp?JobID=639827&user_id)

Nestled on 6,800 acres in the beautiful Fox Valley, Fermilab's campus setting offers an informal and stimulating environment with a long history and promising future committed to education, the environment and, of course, world-leading research in particle physics. Join the excitement that comes from discovering the mysteries of the universe!



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Vacuum technology can be used in a variety of scientific applications. Similarly, there are a number of roles that a physicist can play in this developing area and the related fields of microelectronics, nanotechnology, surface science, plasma science and electronic materials and structures.

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## SNS RESEARCH ACCELERATOR DIVISION DIRECTOR

The Spallation Neutron Source (SNS) at the Oak Ridge National Laboratory invites applications for Research Accelerator Division Director. SNS will be the most powerful short-pulse spallation neutron source in the world. This unique facility will provide opportunities for up to 2000 researchers each year from universities, national laboratories, and industry for basic and applied research and technology development in the fields of materials science, magnetic materials, polymers and complex fluids, chemistry, and biology. Funded by the U.S. Department of Energy's Office of Science, SNS will begin operations in June 2006.

Successful candidate provides strategic leadership for and overall management of the Research Accelerator Division which operates and maintains the SNS accelerator facility, associated systems and the site at the highest level of safety, quality efficiency and performance. Supports R&D, construction, and commissioning of new systems aimed at increasing the performance of the SNS to gain and maintain its position as the world's leading high beam power facility applied to neutron research.

Successful candidate will have a PhD in engineering, physics, or related discipline with at least 10 years of experience in accelerator physics related R&D and/or accelerator operations or an equivalent combination of education and/or experience required. Proven ability to manage a diverse technical organization including working knowledge of management protocols required. Recognized leadership in successfully managing an organizational unit required. Track record of representing an organization at conferences and with review committees required. Knowledge of DOE facility operations requirements desired. Demonstrated achievements in promoting collaborative relationships and building teams required.

Qualified and interested candidates must submit a current resume with a list of three references to the Oak Ridge National Laboratory Employment Opportunities web site ([www.ornl.gov](http://www.ornl.gov) and select jobs) to ensure consideration. For more information visit our web site at [www.sns.gov](http://www.sns.gov).

*ORNL, a multiprogram research facility managed by UT-Battelle, LLC, for the U.S. Department of Energy is an equal opportunity employer committed to building and maintaining a diverse work force.*

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## CERN COURIER

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**Adam Hylands.**

**Tel:**

**+44 (0)117 930 1027**

**E-mail:**

**adam.hylands@iop.org.**



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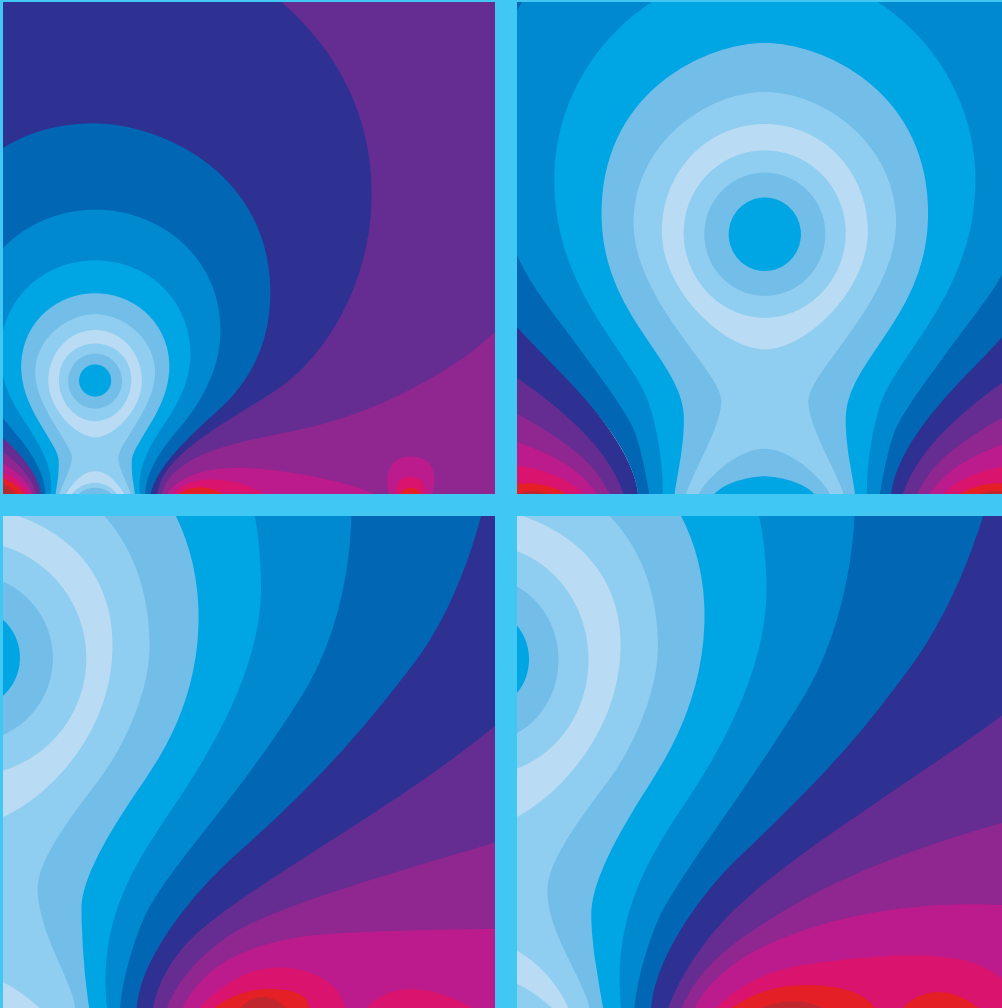
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