

Recruitment

FOR ADVERTISING ENQUIRIES, CONTACT CERN COURIER RECRUITMENT/CLASSIFIED, IOP PUBLISHING, TEMPLE CIRCUS, TEMPLE WAY, BRISTOL BS1 6HG, UK.

TEL +44 (0)117 930 1264 FAX +44 (0)117 930 1178 E-MAIL SALES@CERNCOURIER.COM

PLEASE CONTACT US FOR INFORMATION ABOUT RATES, COLOUR OPTIONS, PUBLICATION DATES AND DEADLINES.

International Max Planck Research School for Precision Tests of Fundamental Symmetries: PhDs in Fundamental Physics



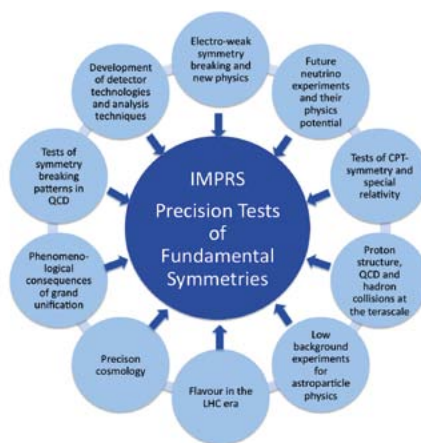
The IMPRS-PTFS is a joint venture of the Max-Planck-Institute for Nuclear Physics and the University of Heidelberg.

Students will work under the supervision of leading scientists on exciting and current topics in the fields of particle and astroparticle physics, cosmology, atomic and nuclear physics. The members of the school can work on both theoretical and experimental aspects.

Regular seminars and soft skills courses will add to the broad education of the students.

We invite applications for 3-4 fellowships for PhD positions, with deadline December 1st.

Please refer to <http://www.mpi-hd.mpg.de/imprs-ptfs> for more information and details of the application procedure.



FACULTY POSITION EXPERIMENTAL NUCLEAR PHYSICS UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN

The Department of Physics invites applicants for a fulltime tenure or tenure-track faculty position in experimental nuclear physics, beginning in August 2014. The UIUC Department of Physics has strong and broad programs in nuclear physics. Scientists from all subfields of nuclear physics are encouraged to apply. The successful candidate is expected to lead a vigorous research program, teach effectively at both the undergraduate and graduate levels, and to have a strong record of publication.

Qualified senior candidates may also be considered for tenured full Professor positions as part of the Grainger Engineering Breakthroughs Initiative, which is backed by a large gift from the Grainger Foundation. Over the next few years, more than 35 new endowed professorships and chairs will be established. The two main research areas are Big Data and Bioengineering. More information regarding the Grainger Initiative can be found at: <http://graingerinitiative.engineering.illinois.edu>.

To apply for this position, please create a candidate profile at <http://jobs.illinois.edu> and upload a curriculum vitae, a list of publications, a brief description of research and teaching interests and plans, and the names of three people who can provide letters of recommendation. Please contact Margie Gamel at 217-333-3762 or mgamel@illinois.edu for further inquiries or questions. For full consideration, application materials must be received by November 15, 2013. Applications will be accepted until the position is filled. Salary will be competitive and rank will be commensurate with qualifications.

Illinois is an Affirmative Action/Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity (www.inclusiveillinois.illinois.edu). We have an active and successful dual-career partner placement program and a strong commitment to work-life balance and family-friendly programs for faculty and staff (<http://provost.illinois.edu/worklife/index.html>).



INDIANA UNIVERSITY

FACULTY POSITIONS THEORETICAL NUCLEAR PHYSICS

The Department of Physics at Indiana University invites applications for a position in theoretical nuclear physics, subject to funding and approval for appointment beginning Fall 2014. Applicants must hold a Ph.D. in Theoretical Physics or a related field at the time of appointment (August 1, 2014). Candidates will be evaluated for appointment at the tenure-track assistant professor level at a salary commensurate with qualifications and experience. Members of IU's world-class efforts in nuclear theory are also active within the newly created Center for Exploration of Energy and Matter (CEEM) that provides enhanced support for research and promotes cross-disciplinary research.

The initial position will be a bridge appointment with Thomas Jefferson National Accelerator Facility (Jefferson Lab) for a period of up to six years. During this period, the appointee will spend about half of his/her time at Indiana University and the other half at the Jefferson Lab.

The successful candidate will be expected to develop a world-class research program in any of the forefront areas of theoretical nuclear physics, with particular emphasis on those that support, strengthen and promote collaboration on the Jefferson Lab 12 GeV physics program over the next decade. The areas of specialization include the fields of perturbative and non-perturbative QCD, hadron structure and spectroscopy, hadron reaction theory, electromagnetic and weak interactions and symmetries, effective field theory, and the application of lattice QCD to all aspects of strong interactions.

A commitment to excellence in teaching at the undergraduate and graduate level is essential. Candidates should submit a letter of application, research statement, curriculum vitae including a list of publications, description of teaching interest and a minimum of three letters of reference. Applications should be submitted through the application portal located at <https://indiana.peopleadmin.com/hr/postings/475>. For questions, please contact the Physics Department at 812-855-1247. In addition, a copy of the application package should be mailed to: Dr. Michael Pennington, Associate Director for Theoretical & Computational Physics, Jefferson Laboratory, 12000 Jefferson Avenue, Newport News, VA, USA.

Applications received by January 15, 2014 will be given full consideration. Further information about the IU Physics Department can be found at <http://physics.indiana.edu>.

Indiana University is an Affirmative Action; Equal Opportunity Employer strongly committed to excellence through diversity and is responsive to the needs of dual career couples. The University actively encourages applications of women, minorities, and persons with disabilities.



TRIUMF LABORATORY DIRECTOR

TRIUMF is seeking an individual with an extraordinary combination of scientific vision, accomplishment, and leadership to assume responsibility for directing the laboratory.

TRIUMF is Canada's national laboratory for particle and nuclear physics. Owned and operated as a joint venture by a consortium of 18 Canadian universities, the laboratory enables research that benefits every sector of the Canadian science, technology, and innovation enterprise and leads to major advances in particle and nuclear physics, materials science, nuclear medicine, and accelerator physics. Core financial support for operations is provided through a contribution agreement via the National Research Council of Canada. TRIUMF has a dedicated staff of 350 continuing employees, a user community of 1,000, and provides unique educational experiences and training for undergraduate students, graduate students, and postdoctoral scholars.

The successful candidate will demonstrate his or her ability to advance an organization that is recognized nationally and internationally for excellence:

Effectively lead overall strategic planning, decision making, and the development of policies and budgets

- Provide leadership in determining the scientific direction of the laboratory;
- Interact closely with relevant funding agencies and with members of the federal and provincial governments to secure financial support;
- Define objectives and approve policies for achieving employee and public safety at TRIUMF;
- Be responsible to the appropriate government agencies for regulatory compliance; and
- Report to the Board of Management on policy and carry out policy decisions.

Position the laboratory to drive societal and economic benefits for Canada

- Encourage interaction between TRIUMF researchers and industry to foster innovation and maximize the economic benefits to Canadians; and
- Promote TRIUMF to the general public.

Interact with Canadian universities and the physics community in formulating plans and in supporting community priorities

- Facilitate the use of TRIUMF's infrastructure to support Canadian-led offshore projects; and
- Develop and maintain contact with other laboratories throughout the world that have common interests.

The position requires broad insight into the research capabilities of TRIUMF and a thorough understanding of how these capabilities can be exploited and further developed. The successful candidate will have leadership experience and a research career of international distinction.

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. TRIUMF is an equal opportunity employer. The term of the appointment would be for five years.

Applications should include a full curriculum vitae and a statement on vision for the laboratory. The review of applications will begin on November 4 and continue until an appointment is made. Applications and inquiries should be directed to:

Professor Robert Kowalewski, University of Victoria

Chair, Search Committee

E-mail: next-director@triumf.ca

<http://www.triumf.ca/next-director>

CALL FOR Professors and Assistant Professors

IST Austria invites applications for **tenured** and **tenure-track leaders of independent research groups** in following fields: **Physics | Chemistry | Biology | Neuroscience | Earth Science | Mathematics | Computer Science | Interdisciplinary Areas**

The Institute is dedicated to basic research and graduate education in the natural and formal sciences. The successful candidates will receive a substantial annual research budget, are expected to apply for external research grants and to participate in the Graduate School.

Deadline for receiving Assistant Professor applications: November 15, 2013

Open call for Professor applications

Further information and online application: www.ist.ac.at/professor-applications

IST Austria values diversity and is committed to equality. Female researchers are encouraged to apply.



RF Engineer

Brookhaven National Laboratory is seeking an RF engineer with experience in high power systems. The selected candidate will work closely with a team of RF engineers and technicians in the operations of RF systems in the NSLS-II accelerator complex including the operation and upgrades of 40 Megawatt pulsed S-band klystron systems, a 500 MHz 80kW CW IOT amplifier system and 500 MHz 300 kW CW klystron amplifiers systems powering superconducting RF cavities.

Please apply to Job ID# 16514 at
www.bnl.gov/HR/careers



Electronics Engineer

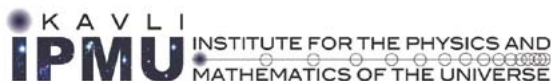
UCL invites applications for an immediate opening for an electronics engineer who will have responsibility for developing, commissioning and maintaining readout/trigger and data acquisitions systems for the HEP group. In the first instance this is an 18-month appointment, but it is anticipated to be a longer-term appointment subject to future grant funding. The successful candidate will have in-depth knowledge in readout and trigger electronics and data acquisition systems for high energy physics detectors and hands-on experience in developing, building and commissioning such systems. Apart from his/her own research work the appointee will liaise closely with other members of the HEP electronics group.

Salary will be in the range from £32,375 to £39,132 per annum inclusive of London Allowance. The closing date for applications is 1 Dec 2013. Further details about the position and the application procedure can be found at http://www.hep.ucl.ac.uk/positions/ee_oct2013.shtml.



brightrecruits.com
Jobs for physicists and engineers





Scientific Staff

Postdoctoral Fellows

Assistant Professors

Associate and Full Professors

Kavli Institute for the Physics and Mathematics of the Universe,
The University of Tokyo, Japan

The "Kavli Institute for the Physics and Mathematics of the Universe" (Kavli IPMU) is an international research institute with English as its official language established in October 2007. The goal of the institute is to discover the fundamental laws of nature and to understand the universe from the synergistic perspectives of mathematics, statistics, theoretical and experimental physics, and astronomy. We are particularly interested in candidates with broad interests and a willingness to interact with people across disciplines.

We intend to make appointments in all three categories of the positions listed above. We seek to build a diverse, highly interactive membership, and female and international applicants are strongly encouraged. We have generous travel support for our postdocs and faculty, and encourage full-time members to be away from the Institute for between 1 and 3 months every year.

The focus of Kavli IPMU includes but is not limited to: all areas of mathematics (e.g. algebra, geometry, analysis, and statistics); string theory and mathematical physics; particle theory, collider phenomenology, beyond the standard model physics phenomenology; cosmology and astrophysics theory; astronomy and observational cosmology; and particle and underground experiments. We are leading efforts on the XMASS dark matter experiment, the KamLAND-Zen neutrino experiment, the Hyper Suprime-Cam (HSC) project for weak lensing surveys and Prime Focus Spectrograph (PFS) for the dark energy at the Subaru Telescope, GADZOOKS! at Super-Kamiokande, the Belle II experiment, T2K long baseline neutrino experiment, SDSS-IV/MaNGA for a survey of galaxies, POLARBEAR CMB B-mode polarization measurement and R&D for future large neutrino detectors. Kavli IPMU is a full institutional member in SDSS-III.

The search is open until filled, but for full considerations please submit the applications and letters by Dec 1, 2013.

Further information can be found here:

<http://www.ipmu.jp/job-opportunities>

For inquiries please contact: application-inquiry@ipmu.jp

Accelerators | Photon Science | Particle Physics
Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association



PARTICLE PHYSICS.

**DESY, Hamburg location, is seeking:
Leading Scientist (f/m)**

DESY

DESY is one of the world's leading research centres for photon science, particle and astroparticle physics as well as accelerator physics.

The particle physics programme of DESY comprises strong contributions to the LHC experiments ATLAS and CMS, to BELLE II at SuperKEKB and to the preparation of a future International Linear Collider, as well as the completion of the analyses of the HERA experiments. The experimental programme is performed in close interaction with a strong theory group. DESY is closely collaborating with German groups in the framework of the Helmholtz Alliance Physics at the Terascale and internationally with major laboratories and institutes in particle physics. To strengthen its present and future particle physics programme, DESY seeks a leading scientist equivalent to a full professor (W3) at a German university. The position is embedded in the DESY/ATLAS group.

The position

- Contribute in a leading position to the experimental particle physics programme
- Assume a leading role in DESY's ATLAS activities (data analysis and detector upgrade)
- Contribute in shaping the future programme in particle physics of DESY

Requirements

- Internationally recognised scientist in the field of collider physics
- Demonstrated leadership abilities in high energy physics projects
- Outstanding qualifications in particle physics analyses and detector development

For further information please contact Prof. Dr. Joachim Mnich +49 40 8998-1921, joachim.mnich@desy.de.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. DESY operates flexible work schemes. Handicapped persons will be given preference to other equally qualified applicants. DESY is an equal opportunity, affirmative action employer and encourages applications from women. There is a bilingual kindergarten on the DESY site.

Please send your application quoting the reference code, also by E-Mail to:

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: EM140/2013

Notkestraße 85 | 22607 Hamburg | Germany | Phone: +49 40 8998-3392 |

E-Mail: recruitment@desy.de

Deadline for applications: 10 November 2013

www.desy.de

The Helmholtz Association is Germany's
largest scientific organisation.
www.helmholtz.de



Reach an
international audience
brightrecruits.com



**NATIONAL TAIWAN UNIVERSITY
Leung Center for Cosmology
and Particle Astrophysics**

Distinguished Junior Fellowship

The Leung Center for Cosmology and Particle Astrophysics (LeCosPA) of National Taiwan University is pleased to announce the availability of several Post-Doctoral Fellow or Assistant Fellow positions in theoretical and experimental cosmology and particle astrophysics, depending on the seniority and qualification of the candidate. Candidates with exceeding qualification will be further offered as LeCosPA Distinguished Junior Fellows with competitive salary.

LeCosPA was founded in 2007 with the aspiration of contributing to cosmology and particle astrophysics in Asia and the world. Its theoretical studies include dark energy, dark matter, large-scale structure, neutrino cosmology, and quantum gravity. The experimental investigations include the balloon-borne ANITA project in Antarctica and the ground-based ARA Observatory at South Pole in search of GZK neutrinos, and a satellite GRB telescope UFFO that is capable of slewing to the burst event within 1sec.

These positions are available on September 1, 2014. Interested applicant should email his/her application with curriculum vitae, research statement, publication list and three letters of recommendation before December 15, 2013 to
Ms. Yen-Ling Lee ntulecospa@ntu.edu.tw

For more information about LeCosPA, please visit its website at
<http://lecospa.ntu.edu.tw/>

Three letters of recommendation should be addressed to

**Prof. Pisin Chen, Director
Leung Center for Cosmology and Particle Astrophysics
National Taiwan University**

Institute of High Energy Physics, Chinese Academy of Sciences

Recruitment of Overseas High-level Talents

Name of Programs:

- National "Thousand Talents Program" (long term & short term programs)
- National "Thousand Young Talents Program"
- "Hundred Talents Program"(overseas outstanding talents) of Chinese Academy of Sciences
- "Outstanding Talents Program" of Institute of High Energy Physics, Chinese Academy of Sciences

Recruitment Objectives:

Based on the needs of the research areas and the disciplines development of the Institute of High Energy Physics Chinese Academy of Sciences (hereafter referred to as "IHEP CAS", we are now publicly recruiting overseas outstanding talents and scholars of relevant disciplines who possess research abilities and innovation awareness.

1. National "Thousand Talents Program"

Research directions: R&D of advanced particle detectors, nuclear electronics, accelerator physics, accelerator technology (including magnet power, high-frequency microwave, vacuum, control, beam measurement, radiation protection, power source, magnets and mechanical technology), cosmic ray physics (including high-energy Gamma-ray astronomy), cosmic ray detection technology, theory and observations of high-energy astrophysics (including compact stars, Gamma ray burst, active galactic nuclei), space astronomical instruments (including detectors, electronics, and X-ray optics), particle physics, nuclear physics, cosmology, astronomy, and accelerator-based light source physics (preferably Higgs physics and other TeV high-energy physics), synchrotron radiation beam line and experiment techniques, relationship of protein structure and function, molecular imaging, medical physics

2. National "Thousand Young Talents Program"

Research directions: pixel detector, offline software, trigger and data acquisition, event reconstruction, data processing, electronics in particle physics experiments, ASIC, radiation-hard devices, accelerator physics, accelerator technology (including magnet power, high-frequency microwave, vacuum, control, beam measurement, radiation protection, power source, magnets and mechanical technology), cosmic ray physics (including high-energy Gamma-ray astronomy), cosmic ray detection technology, theory and observations of high-energy astrophysics (including compact stars, Gamma ray burst, active galactic nuclei), space astronomical instruments (including detectors, electronics, and X-ray optics), particle physics, nuclear physics, cosmology, astronomy, and accelerator-based light source physics (preferably Higgs physics and other TeV high-energy physics), Typical pollutants' environmental behavior and toxicology, Metallomics, synchrotron radiation beam line and experiment techniques, medical imaging (nuclear detection technology, nuclear spectroscopy, nuclear electronics technology, image processing, image reconstruction algorithm) application accelerator (accelerator technology)

3. CAS "Hundred Talents Program"

Research directions: particle physics experiment (detectors R&D, offline software and physical analysis), nuclear electronics, accelerator physics, accelerator technology (including magnet power, high-frequency microwave, vacuum, control, beam measurement, radiation protection, power source, magnets and mechanical technology), accelerator physics, accelerator technology, high intensity proton accelerator technology, low-temperature superconducting technology, cosmic ray physics (including high-energy gamma-ray astronomy), cosmic ray detection technology, theory and observations of high-energy astrophysics (including compact stars, Gamma ray burst, active

galactic nuclei), space astronomical instruments (including detectors, electronics, and X-ray optics), particle physics, nuclear physics, cosmology, astronomy, and accelerator-based light source physics (preferably Higgs physics and other TeV high-energy physics), typical pollutants environmental behavior and toxicology, Metallomics, relationship of protein structure and function, The interaction between nano-materials and organism, the application of nano-materials in cancer diagnosis and treatment, new nano-material synthesis, modification, characterization and application of nano-materials, nuclear structural materials radiation damage effects, synchrotron radiation beam lines and experiment techniques, computer software and theory, distributed computing, network technology, medical imaging (nuclear detection technology, nuclear spectroscopy, nuclear electronics technology, image processing, image reconstruction algorithm) application accelerator (accelerator technology)

4. IHEP "Outstanding Talents Program"

Research directions: pixel detector, offline software, trigger and data acquisition, event reconstruction, data processing, electronics in particle physics experiments, ASIC, radiation-hard devices, sensors and monitoring devices, accelerator physics, accelerator technology (including magnet power, high-frequency microwave, vacuum, control, beam measurement, radiation protection, power source, magnets and mechanical technology), cosmic ray physics (including high-energy gamma-ray astronomy), cosmic ray detection technology, theory and observations of high-energy astrophysics (including compact stars, Gamma ray burst, active galactic nuclei), space astronomical instruments (including detectors, electronics, and X-ray optics), radiation damage effects of nuclear structural materials, typical pollutants' environmental behavior and toxicology, Metallomics, synchrotron radiation beam lines and experiment techniques, medical imaging (nuclear detection technology, nuclear spectroscopy, nuclear electronics technology, image processing, image reconstruction algorithm), application accelerator (accelerator technology)

How to Apply

1. Personal resumes (one in English and one in Chinese preferred)
2. Three letters of recommendation by renowned experts of the field (referees may send the electronic version of the letters of recommendation with their signature to the contact email provided below); At least three renowned overseas referees are required for applicants of National "Thousand Talents Program"/"Thousand Young Talents Program"
3. Chinese Academy of Sciences' "Overseas Outstanding Talents" Candidate Recommendation (Self-recommendation) Form or Institute of High Energy Physics' Outstanding Talent Candidate Recommendation (Self-recommendation) Form

If you are interested, please send your application materials in electronic files to the contacts provided below (please indicate on the subject of the email as: name+job category+where you've obtained the job information)

Means of Contact

Contact Person: Wenli Zheng, Division for Human Resources, Institute of High Energy Physics, Chinese Academy of Sciences

E-mail: zhengwl@ihep.ac.cn

TEL: (86) 010-88235879 Fax: (86) 010-88233102

Address:

No. 19 (B), Yuquan Road, Shijingshan District, Beijing (Postcode: 100049)

For more information please go to <http://english.ihep.cas.cn/>

Are you ready to join our research and collaborations team for Radiation Oncology?

We have two new exciting opportunities within our Research and Collaborations team for Radiation Oncology professionals based out of the United Kingdom and USA.

- 1: Director of Research and Collaborations, Oncology.
Based near Gatwick, West Sussex.
- 2: Director of Research and Collaborations, Oncology
Based in the USA.

A highly attractive remuneration package is available for the successful candidate.

Responsibilities

We are looking for someone for both positions to direct, manage and execute departmental objectives responsible for partner management, identifying new collaboration partners and coordinating global Elekta sponsored research activities.

The role is a key driver in ensuring Elekta's continued success in the area of research and clinical partnering.

Elekta are committed to working with our clinical partners on research into the area of Radiation Therapy. Develop and maintain an effective clinical support platform for all oncology solutions and build strong working relationships with Elekta customers and advocates.

Experience

- A Degree in a technical and clinical speciality would be preferable. (Physics, Maths, Engineering).
- A strong knowledge of Elekta's portfolio of products and a successful track record of research is essential.
- You will be required drive forward the already successful collaborations that Elekta have developed.
- Experience of planning, team leadership, negotiating skills, problem solving and senior project management needs to be demonstrated.
- Elekta encourages professional development and offers opportunities for growth within the company. Other benefits include flexible working conditions, 25 days holiday, private medical insurance and pension.

Elekta is a human care company pioneering significant innovations and clinical solutions for treating cancer and brain disorders. The company develops sophisticated tools and treatment planning systems for radiation therapy and radiosurgery, as well as workflow enhancing software systems across the spectrum of cancer care.



For further details and full job description of both positions, please visit the careers section of our website at www.elekta.com or email Lucy.Parsons@elekta.com

Human care makes the future possible

