

Recruitment

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Chair in Accelerator Physics (Associate Director of the Cockcroft Institute)

Salary: Professorial (minimum £60,266)

Reference: A907

And

Lecturer in Accelerator Physics

Salary: £37,756 to £45,053

Reference: A909

Closing date: Thursday 1st May 2014

As a founding member of the Cockcroft Institute and with the UK's highest ranking physics department in the 2008 Research Assessment Exercise, Lancaster University is seeking to appoint a Chair in Accelerator Physics (Associate Director of the Cockcroft Institute) and Lecturer (Assistant Professor) in Accelerator Physics to further consolidate the Institute's international profile. The successful applicants will be expected to advance experimental research in accelerator physics in close collaboration with Institute members in the Physics & Engineering Departments, other universities, and Daresbury and Rutherford Appleton Laboratories.

You must have a Ph.D. in accelerator physics, particle physics, electrical engineering or a related discipline, with an outstanding research and publications record and a high level appreciation and grasp of potential future international accelerator developments.

Informal inquiries about the institute may be made to Professor Swapn Chattopadhyay, swapan@cockcroft.ac.uk. For information about the Lancaster University Physics Department: Professor Peter Ratoff, p.ratoff@lancaster.ac.uk.

The Lancaster University Department of Physics is strongly committed to fostering diversity within its community as a source of excellence, cultural enrichment, and social strength. We welcome those who would contribute to the further diversification of our department.



Microwave Specialist (m/f)

GSI Helmholtzzentrum für Schwerionenforschung, an accelerator lab with about 1100 employees, is building the international Facility for Antiproton and Ion Research (FAIR) in Darmstadt, Germany. We are seeking an electrical engineer or physicist with very good knowledge in microwaves and analog electronics. Within a specialized team, the selected candidate is going to develop, produce in small quantities, measure and integrate several novel microwave systems and components, which are mostly not available on the market. These systems will be used for the stochastic cooling of heavy ion and antiproton beams in the FAIR accelerators and consist of components with very demanding requirements on the linearity of the frequency response over large bandwidths in the range 1-4 GHz. For example, frequency-independent phase shifters, variable delay lines and vacuum-compatible microstrip circuits, are commonly required. He/she will also participate to the commissioning and further development of such systems in the accelerators.

We offer versatile tasks in a worldwide unique well-equipped laboratory. The position is initially limited to 5 years. Further details and application information (job reference no. 6430-14.09) can be found at <http://www.gsi.de/en/jobscareer.htm>



Postdoctoral Fellowships in Particle Astrophysics

The fellowships will be based at the University of Alberta and may involve travel to the SNOLAB facility in Sudbury, Ontario (see <http://www.snolab.ca>). Experience in the field of neutrino physics or dark matter searches is an asset. For fieldwork a driver's license is highly desirable.

Candidates will have a recent PhD in experimental particle astrophysics, nuclear or particle physics, or in a closely related field. The original appointment will be for two years, up to three years in special circumstances, subject to funding. The stipend will be commensurate with qualifications and experience. The opportunities are for the following experiments:

SNO+ (two opportunities)

PICO (one opportunity)

DEAP (one opportunity)

Details at: <http://tinyurl.com/particleastro>.

Applicants should clearly state which opportunity they are interested in and include a detailed CV, a brief statement of research interests, and arrange to have at least three letters of reference forwarded to:

Associate Professor Carsten B. Krauss (carsten.krauss@ualberta.ca)
Centre for Particle Physics, CCIS 4-181
University of Alberta
Edmonton Alberta CANADA T6G 2E1

The review of applications will continue until the opportunities are filled.



FOM announces the search for a new

DIRECTOR OF NIKHEF

URL: <http://cerncourier.com/cws/job/J00008202>

The end of the fixed term appointment of the current director Frank Linde will be reached by 1 December 2014. FOM, the formal employer of the Nikhef director, has started a search for his successor.

The deadline for applications is 15 May 2014.

The international search committee will interview the top candidates in June 2014 in Amsterdam.

More information can be found on www.fom.nl and on www.nikhef.nl.

Should you have any questions regarding this search, or want to bring suitable candidates, especially women, to the attention of the committee, you can contact Dr. Wim van Saarloos, director of FOM, at wim.van.saarloos@fom.nl.



Fermilab offers Intensity Frontier Fellowships to outstanding researchers in the areas of neutrino physics, muon physics, and other topics in the Intensity Frontier. Fellows will receive funding to allow enhanced participation in Fermilab experimental and data analysis efforts, in relevant areas of particle physics theory, or in future projects. The fellowships provide the ability for researchers to spend significant time at Fermilab working within the Intensity Frontier Department, with the goal of expanding and sustaining an intellectual center of excellence within the laboratory and the department.

Successful candidates will ordinarily be resident at Fermilab for 50% or more of the duration of the Fellowship.

- Term: 6 months to 1 year.
- During the requested award period, candidates must be employed by a U.S. or non-U.S. institution. Fermilab employees are not eligible.
- Renewable to maximum of 2 years, with new proposal.
- Financial support: up to 50% of researcher's overall compensation, with remainder from researcher's home institution.
- Awards may include a travel budget.

Application Information

Applications for the current round of awards will be accepted until 11 May, 2014. It is anticipated that awards will be given out twice yearly. Applicants should be notified by 25 May, 2014.

Applications should be made electronically via:
<https://academicjobsonline.org/ajob/jobs/3940>

Further queries should be sent to:
intensity_frontier_fellowships@fnal.gov



The São Paulo Research and Analysis Center
 (SPRACE – <http://www.sprace.org.br>)

is a research group from São Paulo State University and ABC Federal University working on the Compact Muon Solenoid (CMS) experiment of the CERN Large Hadron Collider (LHC). The SPRACE project is mainly supported by funds provided by the São Paulo Research Foundation, (FAPESP) supplemented by Federal funds.

The SPRACE research team is engaged in two CMS physics analysis groups: Beyond the Standard Model and Heavy Ion physics. SPRACE also operates a Tier-2 facility of the Worldwide LHC Computing Grid (WLCG) and is responsible for the implementation of a statewide grid infrastructure – GridUNESP – that serves more than 50 research groups from different scientific communities. SPRACE participates in R&D activities on the conceptual design, simulation and proof-of-concept of a Level 1 trigger for the pixel tracking detector of the CMS experiment.

The SPRACE group has currently open positions for Ph.D. students, Postdoctoral Fellows and Electrical Engineers. In order to apply for those positions, candidates should send an application letter, résumé of work experience, and at least two letters of recommendation to
Sergio.Novaes@cern.ch.

SPRACE is committed to the principles of equal opportunity and affirmative action. Applications from women and members of minority groups are encouraged.



KEK, High Energy Accelerator Research Organization

Call for Nomination for Next Director-General of KEK

KEK, High Energy Accelerator Research Organization, invites nominations for the next Director-General whose term will begin April 1, 2015.

KEK is an Inter-University Research Institute Corporation open to domestic and international researchers, and comprises the Institute of Particle and Nuclear Studies, the Institute of Materials Structure Science, the Accelerator Laboratory, and the Applied Research Laboratory. KEK pursues a wide range of research activities based on accelerators, such as particle and nuclear physics, material sciences, biosciences, accelerator physics and engineering, etc.

The role of Director-General, therefore, is to promote with long-term vision and strong scientific leadership, the highly advanced, internationalized, and inter-disciplinary research activities of KEK by getting support from the public. The successful candidate is also expected to establish and carry out the medium-term goals and plans.

The term of appointment is three years. When reappointed, the term can be extended up to 9 years.

We widely accept the nomination of the candidates regardless of their nationalities.

We would like to ask you to recommend the best person who satisfies requirements for the position written above.

Nomination should be accompanied by: 1) letter of recommendation, 2) brief personal history of the candidate, and 3) list of major achievements (publications, academic papers, commendations and membership of councils, etc.). The nomination should be submitted to the following address no later than **May 30, 2014**:

Documents should be written either in English or in Japanese.

Forms are available at :
<http://legacy.kek.jp/intra-e/info/2014/030109/>

Hiroshi Takeda

**The Chair of Director-General Selection Committee
High Energy Accelerator Research Organization**

Inquiries concerning the nomination should be addressed to:

General Affairs Division

General Management Department

**KEK, High Energy Accelerator Research Organization
1-1 Oho, Tsukuba, Japan 305-0801**

Tel +81-29-864-5114 Fax +81-29-864-5560

Email: shomu@mail.kek.jp

Faculty positions at Inter-Institutional Centre for High Energy Physics, Madurai, India (Nodal Centre for India-based Neutrino Observatory)

Inter-Institutional Centre for High Energy Physics (IICHEP) is the Nodal Centre for the India-based Neutrino Observatory (INO). Located in the city of Madurai in south India, the IICHEP will be the nodal centre of the multi-institutional INO project, entrusted with building a large underground Laboratory, geared to take off soon. At present the IICHEP will be administered through the Tata Institute of Fundamental Research (TIFR), Mumbai. Once fully operational it is expected to become an autonomous research centre under Department of Atomic Energy, Govt. of India.

IICHEP expects to have faculty positions at the level of Reader in Pay Band-4 at its centre at Madurai soon. Selected scientists will be involved in the construction and operation of the neutrino detector (ICAL) that is coming up at the INO underground laboratory at Bodi West Hills, Tamil Nadu. They are also expected to participate in the analysis of data as well as in the R & D program for future detector development. Expertise related to particle detector development, associated electronics, data acquisition is desirable. Preference will be given to candidates having hardware and data analysis experience with large detector systems used in nuclear and particle physics. Positions are also available for phenomenologists with expertise in the area of neutrino physics and particle physics with experience in simulation and data analysis. In future, opportunities may exist to participate in other experiments related to dark matter detection, double beta decay etc that may come up at INO.

Applicant should have Ph.D. and 5 years of post-doctoral experience.

Exceptionally good candidate having less post-doctoral experience may be considered for Reader in Pay Band-3. Application along with CV, research interest as well as list of referees should be sent to projdir.ino@tifr.res.in as email attachment (preferred) or to Project Director, India-based Neutrino observatory, TIFR, Homi Bhabha Road, Mumbai 400005, India by mail.

"La Caixa – Severo Ochoa" predoctoral positions in Theoretical and Experimental Particle Physics, Astroparticle Physics, Cosmology and Instrumentation R&D at IFAE Barcelona.

The "Institut de Física d'Altes Energies" (IFAE) in Barcelona announces the opening of four predoctoral positions for outstanding young graduates interested in working towards a PhD thesis at IFAE. These positions are funded by the "La Caixa" Foundation under the Severo Ochoa Program for Scientific Excellence, a distinction recently awarded to IFAE.

The contracts will have a duration of four years (the typical time to prepare a PhD thesis at IFAE), and will enjoy competitive conditions, with a progressively increasing salary averaging 22.384 € per year.

Interested candidates with an excellent CV and willing to work in the areas of research of IFAE, namely, theoretical particle physics, experimental particle physics (ATLAS and T2K), astroparticle physics (MAGIC and CTA), observational cosmology (DES, PAU and Euclid) and instrumentation development (ATLAS upgrades and medical imaging), should fill an application form as described at:

<http://www.ifae.es/eng/work/open-positions.html>

and upload the requested information, which includes a cover letter, a CV, a one-page statement of interest, and the names and email addresses of two professors willing to provide reference letters.

The application deadline will be March 31, 2014. The review process will take place during April, and offers will be made in early May. In case of a positive evaluation, hiring will take place during September and October 2014.

General information about IFAE and its Severo Ochoa program is available at <http://www.ifae.es>.



UNIVERSITÉ DE GENÈVE

Post one:

FULL PROFESSOR, Associate professor or Assistant professor in THEORETICAL PHYSICS

RESPONSIBILITIES: We are looking for an outstanding condensed-matter theorist with a pronounced interest and proven expertise in quantum transport and correlated electron systems. He/she is capable of developing a broad and independent research line in theory, with the interest and ability to interact with experimentalists. She/he is expected to contribute to the excellent international scientific reputation of our Physics Section.

This is a full time tenured or tenure track (in the case of assistant professor) position. Duties include developing a research program at the highest international level, teaching at undergraduate and postgraduate level, and securing external funding. Moreover, the successful candidate will supervise master and doctoral thesis and will take up administrative and organizational duties at the department level.

REQUIREMENTS: PhD degree or equivalent.
Experience in research and teaching.
Publications in international top journals.

Applications including a CV, teaching and research statement and a complete list of publications must be submitted online before March 31st, 2014 at:

<https://jobs.icams.unige.ch>. Complementary information may be obtained at the following e-mail address: scienceopenings@unige.ch.

Applications from women are particularly welcome.

Post two:

FULL PROFESSOR, Associate professor or Assistant professor in THEORETICAL PHYSICS

RESPONSIBILITIES: We are looking for an outstanding theoretical physicist with pronounced interest and expertise in applications of mathematical physics to condensed matter systems (examples are integrability and AdS/CMT). The candidate is capable of developing a broad and independent line of research in theoretical physics with interest to interact with mathematicians. She/he is expected to contribute to the excellent international scientific reputation of our physics section.

This is a full time tenured position (or tenure track in the case of an assistant professor). Duties include developing a research program at the highest international level, teaching at undergraduate and postgraduate level, and securing external funding. Moreover, the successful candidate will supervise master and doctoral thesis and will take up administrative and organizational duties at the departmental level.

REQUIREMENTS: PhD degree or equivalent.
Experience in research and teaching.
Publications in international top journals.

Applications including CV, research and teaching statement and a complete list of publications must be submitted online before March 31st, 2014 at:

<https://jobs.icams.unige.ch>. Complementary information may be obtained at the following e-mail address: scienceopenings@unige.ch.

Applications from women are particularly welcome.



Vacuum solutions from a single source

Pfeiffer Vacuum stands for innovative and custom vacuum solutions worldwide, technological perfection, competent advice and reliable service. We are the only supplier of vacuum technology that provides a complete product portfolio:

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- Chambers and components

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