

Recruitment

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



Consortium for Construction, Equipment and Exploitation of the Synchrotron Light Laboratory Director position at the ALBA light source

The Consortium CELLS - jointly owned by the Spanish and Catalan Administrations – is responsible for the operation and future development of ALBA, a 3 GeV third generation synchrotron light facility. At present, the construction is finished and the accelerator complex is being commissioned. Seven state of the art beamlines covering a variety of research fields are already installed and expected to be commissioned with photons by mid 2011 and fully open to external users in 2012. Details may be found at www.cells.es.

ALBA is located in Cerdanyola del Vallès, at some 20 km from Barcelona, in a metropolitan region of about 4.5 million people, a zone of improving scientific and technological level, with several international schools, universities and scientific and technological parks and with very good international communications.

The Consortium is looking for a new Director of the facility. The Director is responsible for the scientific and technical exploitation of ALBA, for the definition of short and long term development strategies and must report to the Governing Bodies of the Consortium (an Executive Commission and a Rector Council whose delegates are appointed by the Owner Administrations).

Candidates must have experience in research institutes or similar facilities, a solid experience with synchrotron light research and have qualifications for Directorship. The working language at Alba is English. Knowledge of Spanish and or Catalan is an asset.

The Director will be offered a full time contract according to the Spanish law. Employment conditions and salaries can take into account the needs of professionals and their families. The incorporation date to the position is expected in January 2012.

Applications should be sent to the Chairman of the Executive Commission of ALBA; Carretera BP 1413 de Cerdanyola a Sant Cugat, km 3.3; E 08290 Cerdanyola del Vallès; Spain. Candidates should send a letter of motivation and their CV to the Chairman of the Executive Commission of ALBA Prof. Ramon Pascual (pascual@cells.es).

Deadline for receiving applications: 15th May 2011.

POSTDOCTORAL RESEARCH POSITION – MUON ACCELERATOR PROGRAM UNIVERSITY OF CALIFORNIA, RIVERSIDE

Postdoctoral research position on simulation for the Muon Accelerator Program (MAP). Collaboration with MAP members on design and simulation of six-dimensional cooling for a muon collider, possibilities for demonstration of 6D cooling in Muon Ionization Cooling Experiment (MICE) at the Rutherford Laboratory, and cooling for International Design Study for a neutrino factory.

Ph.D. or equivalent degree in physics and several years experience in computer simulation required. Previous experience in accelerator physics desirable. Position associated with the University of California, Riverside, working under the direction of Professor Gail Hanson.

Letter of application, curriculum vitae, list of publications, and three reference letters should be directed to:

Gail.Hanson@ucr.edu subject line MAP-Postdoc.

Position open immediately.

Will be filled once suitable candidate identified.
Applications reviewed as received.

The University of California is an Equal Opportunity/Affirmative Action Employer.
Women and minority candidates are urged to apply.



Postdoctoral Research Associate - Muon Cooling

The Center for Accelerator and Particle Physics at the Illinois Institute of Technology has an opening for a postdoctoral research associate. The main focus of activity will be the Muon Ionization Cooling Experiment (part of the worldwide R&D program for a future Neutrino Factory or Muon Collider) and design studies for a future six-dimensional muon cooling experiment. Applicants must have a Ph.D. in particle physics, accelerator physics, or a related field. Please send curriculum vitae and names of three references to:

Prof. Daniel Kaplan, Physics Division, Illinois Institute of Technology, 3101 S. Dearborn St., Chicago, IL 60616, USA

or (preferably) by email to kaplan@iit.edu. Further information on the activities of our group may be found at <http://capp.iit.edu> on the World-Wide Web.

Illinois Institute of Technology is an Equal Opportunity employer and encourages applications from qualified women and minorities.



Lecturer in Science and Engineering (two posts) (Ref: EPS/11799)

**Specializing in any of the following areas: Accelerator, Laser,
Material, Microwave, Energy, Photon and Instrumentation Sciences**

**Salary: £36,862 - £45,336 per annum
according to relevant experience and qualifications**

Particle accelerators serve a wide variety of purposes. They are used as innovative tools for "discovery-class" scientific research and invention at many of the most prestigious national and international institutes and laboratories. Accelerators also serve society in critical areas of need in energy, security, health and medicine.

The Cockcroft Institute in the UK is a unique international centre specifically responsible for research and development in particle accelerators, colliders and light sources for advancing the frontier of particle and nuclear physics, photon and neutron sciences and various applications to society in the areas of health, medicine, energy and security. The University of Manchester is a major stakeholder and one of the founding members, of The Cockcroft Institute - a partnership of the Universities of Liverpool, Manchester and Lancaster, the Science and Technology Facilities Council including its Daresbury and Rutherford Appleton Laboratories, UK industry and economic development agencies.

As part of this important, internationally-leading activity at The Cockcroft Institute, candidates will also have the opportunity to take advantage of the unique research centres provided at the University of Manchester, including the Dalton Nuclear Institute, Photon Science Institute and the Jodrell Bank Centre for Astrophysics. Applications are invited from Physical and Applied Scientists and Engineers with a PhD degree at the top of their profession seeking an academic career specialising in Particle Accelerator Science and Engineering with a focus on applications to any of the disciplines of

Physics, Energy, Optoelectronics, Photonics, Material, Quantum Electronics, Quantum Optics and various electrical engineering disciplines of sensors, instrumentation and ultrafast signal processing, and electromagnetic modelling. Significant start-up laboratory equipment and infrastructure is expected to be made available to the appointed faculty from the Cockcroft and Photon Science Institutes. The successful candidate will be expected to work synergistically with existing Cockcroft faculty at the University of Manchester.

Candidates are sought with interest in areas such as conception and design of particle colliders, novel light sources and free electron lasers, for fundamental research as well as for developing cost- and energy-efficient photovoltaic nano-structures towards solar energy, conception and design of high current proton accelerators for fundamental research and towards accelerator-driven subcritical reactors and various applications of proton and photon beams for health, medicine and security. These represent exciting and challenging opportunities for someone wishing to excel and lead a significant contribution to world-wide development of tomorrow's particle accelerator systems for science and society.

The Faculty appointment will provide a prestigious start to an academic career with a demonstrable international research dimension.

The successful candidate will already have an extensive track record in internationally-leading research in any of the areas of theoretical, computational or experimental particle accelerator, laser and photon beam physics in

any of the following areas: linear and nonlinear charged particle dynamics; collective dynamics of beam and plasma instabilities; microwave, radio-frequency, terahertz and optical sciences and engineering; power engineering; materials science including nanostructures and photovoltaics; charged particle and optical beam diagnostics and digital electronics, optronics, photonics, sensors and instrumentation. S/he will have a high-impact publication record commensurate with such experience. S/he will also demonstrate proven ability to lecture at postgraduate and undergraduate level at the highest levels of quality and support / encourage taught course and research students. An understanding of current global priorities for particle accelerator science and related applications will be important, together with the ability to contribute to and develop existing taught provision in related areas of curricula with an international dimension.

Active involvement and collaboration with the existing Cockcroft faculty and specialist research areas within the University of Manchester, along with relevant activities particularly with the other partners in the Cockcroft Institute will be encouraged.

**Application forms and further particulars are available from our website
<http://www.manchester.ac.uk/jobs>.**

If you are unable to go online you can request a hard copy of the details from EPS HR Office, The University of Manchester, Sackville Street Building, Manchester, M60 1QD, Tel: 0161 275 8837; Fax: 0161 306 4037 or email: eps-hr@manchester.ac.uk.

The closing date for applications is: Tuesday 17 May 2011

For further information about the Cockcroft Institute, visit <http://www.cockcroft.ac.uk> or contact Prof. Swapan Chattopadhyay (swapan@cockcroft.ac.uk)


www.ox.ac.uk/jobs

Mathematical, Physical and Life Sciences Division
Department of Physics

University Lectureship in Accelerator Science

University of Oxford & STFC Rutherford Appleton Laboratory in association with Wolfson College Oxford and a

Departmental Lectureship in Accelerator Science

University of Oxford

The John Adams Institute for Accelerator Science (JAI) in Oxford wants to appoint a University Lecturer in Accelerator Science (permanent academic post) on a joint appointment with STFC's Rutherford Appleton Laboratory, and a Departmental Lecturer in Accelerator Science (a 5-year fixed term appointment). Current projects include novel compact light sources and FELs based on laser-plasma acceleration, linear collider, neutrino factory, the Muon Ionisation Cooling Experiment (MICE), non-scaling Fixed-Field Alternating Gradient accelerators and plasma accelerator diagnostics. Applications are welcome in any area of accelerator science, especially those aligned with the strategic interests of the JAI, for example the development of compact light sources, areas of synergy between laser and plasma physics and accelerator physics, and areas where accelerator science may prove beneficial in technology, energy and medicine. This work involves close international collaboration. Details about the JAI can be found at <http://www.adams-institute.ac.uk>.

University Lectureship in Accelerator Science, jointly with the STFC Rutherford Appleton Laboratory

Salary on the scale £42,733 - £57,431

The appointee will undertake lecturing, research and administration within the JAI and the Department of Physics in Oxford, and will undertake research at the Rutherford Appleton Laboratory. The successful candidate will be offered a supernumerary Fellowship at Wolfson College Oxford; upon completion of a satisfactory review after an initial period of employment (normally five years), a University Lecturer is eligible for reappointment until retiring age.

Departmental Lectureship in Accelerator Science

Salary on the scale £29,099 - £39,107

This is a 5-year fixed-term appointment. The Appointee will undertake lecturing, research and administration within the JAI and the Department of Physics in Oxford.

Informal enquiries about either post may be made to Professor Andrei Seryi, email: Andrei.Seryi@adams-institute.ac.uk, and further particulars are available at <http://www.physics.ox.ac.uk/pp/jobs/JAI-UL-DL-fp.htm>. The deadline for applications is 1st June 2011. Interviews will be held in mid June to early July; candidates should consult the web-site for the exact date and keep this date free in case they are called for interview.

Applicants should submit before the deadline a letter of application setting out how they meet the criteria set out in the further particulars, supported by a curriculum vitae, list of publications, a statement of research interests to Mrs. Sue Geddes, Denys Wilkinson Building, Keble Road, Oxford OX1 3RH, UK, email: s.geddes@physics.ox.ac.uk, FAX 0044-1865-273417. In addition, candidates should arrange for the three letters of reference to be sent to Mrs. Sue Geddes by the closing date. Applicants should state whether they wish to be considered for the University Lectureship, Departmental Lectureship or both.

Committed to equality and valuing diversity



Postdoctoral Fellow Positions at NTU

The experimental high energy physics group at National Taiwan University invites applications for three postdoctoral fellow positions in experimental particle physics. A Ph.D. in particle physics is required. Qualified candidates will be considered immediately, but applications will be considered until positions are filled, with possibilities to start in 2012. Well qualified applicants can be considered for research assistant fellow positions or higher.

The experimental HEP group at NTU has five faculty, five senior researchers, several postdocs plus graduate students, and contributes heavily to CMS, Belle, Daya Bay and E391a/KOTO experiments. This advert focuses on the CMS experiment at CERN.

The NTU-CMS team has been involved in ECAL preshower detector design, construction, commissioning and operation. The group has recently joined the CMS Phase 1 Upgrade Pixel project, and will play a major role in the detector construction and commissioning in the coming years. Other than hardware projects, the group is also involved in various physics analyses with CMS data. These include underlying events, QCD and Higgs related photon physics, and high-pT new physics searches such as 4th generation quarks.

The successful fellows are expected to spend half of the time on the Pixel upgrade project, with the other half on physics analysis. Candidates with detector hardware construction or commissioning experience are preferred. S/he will spend the majority of the time at CERN. Interested candidates should send a cover letter, curriculum vitae, short statement of research interests (1 page), and arrange to have three reference letters sent (by direct email in PDF format) to

**Prof. George W.-S. Hou, Department of Physics,
National Taiwan University, Taipei, Taiwan 10617**

E-mail: wshou@phys.ntu.edu.tw,

Phone: +886-2-3366-5145 (lab), 33665096 (office)

Fax: +886-2-2369-3472



Bruker BioSpin is the world leader in the design and manufacture of magnet systems for specialized MRI scanners and other applications. The magnet systems include, e.g., superconducting magnets. Our headquarter is located in Wissembourg, Alsace, France (50 km North of Strasbourg, 30 km West of Karlsruhe). In order to strengthen our magnet engineering team, we are seeking Engineers/Physicists to join our team, offering excellent opportunities for career progression within the Bruker organisation, as:

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The focus of this position will be on electromagnetic design, analytical and numerical modelling and requires strong skills in mathematics and linear systems theory. Further skills in engineering mechanics, cryogenics, superconductor technology can be advantageous.

Fluency in English is mandatory.

The role requires strong analytical skills, a creative approach to problem-solving, and the ability to work effectively within multi-disciplinary teams. Applications are encouraged from individuals with recent graduate or post-graduate degrees in Physics or Electrical Engineering, as well as those with a professional background in a relevant industry or science.

Bruker has the corporate values of Innovation, Excellence and Responsibility and within the context of these applications, Bruker Biospin SAS will commit resources to support full professional body membership for the successful candidate.

Contact: drh@bruker.fr

think forward



Massachusetts Institute of Technology

Associate Director

The MIT Laboratory for Nuclear Science has an opening for the position of Associate Director. The responsibilities for this position include the following: broad, comprehensive responsibility for independently directing all administrative functions of the organization; assisting the Director and senior research management in implementing the goals of the laboratory, which supports a large program of research and educational activities in particle and nuclear physics with ~ 25 M\$ annual research volume and with about 250 faculty, staff, researchers, and students; on behalf of the Director acting as key administrative liaison both inside and outside MIT; assisting in the development of long-range plans for research and staffing levels; analyzing the fiscal status of the Laboratory, assisting faculty and staff in developing grant or contract proposals and in meeting reporting requirements; assisting the MIT Office of Sponsored Programs in contract negotiations; providing interface and promoting effective relationships with sponsors, MIT administration, affiliated organizations, and national and international collaborative efforts; overseeing all administrative elements within the Laboratory, including budgets, service centers, personnel, public relations and other outreach programs, and resource allocation; initiating and coordinating the preparation of special reports, such as reports to sponsor, five-year plans, reports to the MIT President, and public relations documents.

A Ph.D. in a science-related field, or equivalent combination of education and experience, and significant experience in research administration are highly desirable. Familiarity with a scientific research environment is necessary, as is the proven ability to interact effectively with sponsors and other offices in an MIT-like administrative environment.

Please send CV to: **Kenneth L. Hewitt, 26-516, Massachusetts Institute of Technology, 77 Massachusetts Ave. Cambridge, MA 02139-4307**
Email: khewitt@mit.edu

<http://web.mit.edu>



**Cornell Laboratory for
Accelerator-based Sciences
and Education (CLASSE)**

Senior Research Associate

Cornell Laboratory for Accelerator-based Sciences and Education

The Cornell Laboratory for Accelerator-based Sciences and Education (CLASSE) seeks an individual to take a lead role in the management and development of major accelerator systems. The specific research and development activities will be in one of the accelerator-associated fields that are part of the mission of CLASSE (x-ray science, accelerator science, or elementary particle physics). These activities will be determined in consultation with the CLASSE Director, to whom this position reports. Duties will also include: overseeing accelerator radiation protection and safety systems; performing radiation shielding calculations using Monte Carlo codes such as MARS, FLUKA, EGS5, or MCNPX; calculating radioactivity induced in materials by stray radiation fields around electron accelerators; assessing radiation damage in electronics; making measurements of photon and neutron spectra over a wide energy range; reviewing and approving safety analysis documents for laboratory operations, working with staff at all levels to analyze and set procedures for unusual or new safety issues.

Requirements: A PhD in one of the physical sciences or engineering, and several years of experience in experimental high-energy accelerator physics or nuclear science and engineering. Must be familiar with: biological effects from natural and man-made sources of environmental radioactivity; federal, state, and local laws governing radiation; photon and neutron dosimetry; and occupational, chemical, biological, and laser safety. A high level of people skills and mature judgment are essential.

Please send a cover letter, including curriculum vitae and a publications list to Dr. Maury Tigner, Newman Laboratory, Cornell University, Ithaca, NY 14853, and arrange for three letters of recommendation to be sent. Correspondence may be directed to search-classe@cornell.edu.

Cornell University is an equal opportunity, affirmative action educator and employer.

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Chris Thomas, recruitment advertising manager
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