

RECRUITMENT

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Royal Holloway University of London

Lecturer posts in Accelerator Physics

Initial salary will be in the range £30,901 to £40,202 for a Lecturer appointment and £30,901 to £47,300 at Reader level, including London weighting.

The Physics Department at Royal Holloway University of London is offering two permanent academic appointments in the field of accelerator physics. One of these is in conjunction with the Accelerator Science and Technology Centre (ASTeC) at CCLRC, for activities based largely at the Rutherford Appleton Laboratory in Oxfordshire.

Royal Holloway and the University of Oxford have recently established the John Adams Institute for Accelerator Science as a Centre of Excellence for advanced and novel accelerator technology, providing expertise, research, development and training in accelerator techniques, and promoting advanced accelerator applications in science and society.

As part of an expanding programme we are inviting applications for two new posts with expertise as follows. For both posts we seek highly motivated individuals with a PhD in a relevant field and appropriate post-doctoral experience.

Post 1 (ref: KB/004583)

For this appointment, at Reader or Lecturer level, we are particularly seeking applicants who can contribute to and expand our current programme, which is focussed on beam diagnostics and delivery systems for the International Linear Collider. However we would also welcome applications from individuals who could develop a new programme in other areas of accelerator physics.

Post 2 (ref: KB/004581)

This post, at Lecturer level, is partially funded by ASTeC and about 50% of the time will be spent at the Rutherford Appleton Laboratory collaborating with CCLRC based initiatives. We particularly welcome applications from individuals with expertise in areas such as advanced lasers and optics, particle tracking codes, accelerator physics, or the properties of materials under extreme conditions. About 20% of the duties will be associated with undergraduate and/or postgraduate teaching in the Physics Department at Royal Holloway.

Royal Holloway is one of the larger colleges of the University of London, situated on a pleasant campus about 25km west of central London, close to the town of Windsor and to Heathrow Airport. Further details about the Physics Department and the John Adams Institute can be found on our web site at www.rhul.ac.uk/physics and at www.adams-institute.ac.uk.

Applications should have a PhD in particle physics, accelerator physics or an area related to the posts.

Informal enquiries about the posts can be made to Professor Grahame Blair (+44 1784 443513 or G.Blair@rhul.ac.uk).

Further details and an application form are available from the Personnel Department, Royal Holloway, University of London, Egham, Surrey TW20 0EX; telephone: 01784 414241; fax: 01784 473527; e-mail: recruitment@rhul.ac.uk. Please quote the appropriate reference number. The closing date for receipt of applications is the 30 September 2006. Interviews are expected to be held during the week beginning 30 October 2006.

We positively welcome applications from all sections of the community.

Economic Development for Physicists from Developing Countries

Workshop Programme, 27 November – 1 December 2006

Abdus Salam International Centre for Theoretical Physics, Trieste, Italy

This one week residential workshop on '**Economic Development for Physicists in Developing Countries**' is designed for physicists in developing countries who would like to learn entrepreneurial/commercialisation skills. The development of entrepreneurial skills and attitudes now form a vital part of the education programme. The aim of the workshop is to foster the culture of enterprise that will help physicists in their careers help them make positive contribution to the economy of their countries.

Vital aspects of the workshop include: how to spot opportunities, identification of market need, how to protect intellectual property, need for confidentiality, patenting, how to bring developments to market, licensing, raising capital, funding, venture capitalist route, legal issues, incubation, etc. This workshop will also provide delegates an opportunity to engage with successful role models who are expert in their field and to discuss real life issues, barriers and challenges. A number of case studies will be discussed providing an excellent opportunity to understand the issues involved and to identify the best practice from the example. Various transferable skills like negotiation, interpersonal and communication can be learned from the group activities and networking.

The workshop is organized by the International Union of Pure and Applied Physics, the Abdus Salam International Centre for Theoretical Physics, the Institute of Physics and the European Physical Society.

Grant Application & Registration

Grant Application Deadline: 30 September 2006

Grants are available to delegates from developing countries to cover the registration costs, subsistence cost and travel expenses.

Applications should be sent to Dr Dipali D Chauhan (see below for full details) and should include:

- a name, address, and other contact details (email, telephone, fax);
- a brief summary of qualifications and career to date;
- a short statement (up to 250 words) describing why the workshop will be useful to you;
- a letter of support from a referee;
- amount required to cover travel expenses.

Please return your application by mail, fax or email latest by **30 September 2006**. All the selected delegates will be informed by **5 October 2006**.

If you need any documentation for VISA application, please contact us for further information.

Dr Dipali D Chauhan, The Institute of Physics, 76 Portland Place, London W1B 1NT, Tel: +44 207 470 4825, Fax: +44 207 470 4848, Email: dipali.chauhan@iop.org



Institute of Physics



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Deutsches Elektronen-Synchrotron Grid Computing



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.

The Computing group at DESY is providing computing resources for the simulation and analysis within the scope of international experimental and theoretical Particle Physics as well as Particle Astrophysics. For our site at Zeuthen we seek a

Scientific associate

to participate in the DESY Grid projects.

One task is the development, installation and upgrade of the LHC Grid infrastructure at DESY, especially in the context of the Tier2 projects for the CERN experiments ATLAS and CMS.

Another field of activities is the participation in the development of experiment specific Grid software for ATLAS (e. g. Job monitoring, Production system).

We expect you to have a university diploma in Physics, Mathematics or Computer Science. In addition you should have a good knowledge in Grid middleware, in Linux system administration and in programming (C, C++, Java, script languages like Python, Perl). You like to work in a motivated team of physicists and engineers and have a good knowledge of the English language. We offer an interesting and advanced work in a scientific environment.

The position is limited to 2 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.

Deutsches Elektronen-Synchrotron DESY
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email: personal.abteilung-zeuthen@desy.de

Deadline for applications: 15.09.2006



Physics & Astronomy Department

UCLA

Tenure Track or Tenured Faculty Position in Theoretical Particle Physics

The Department of Physics and Astronomy at UCLA invites applications and nominations for a tenure track or tenured faculty position in theoretical particle physics, starting July 1, 2007 in the areas of collider physics, physics beyond the Standard Model and strong interactions, including perturbative, non-perturbative (lattice) and computational aspects. We are seeking candidates with an outstanding record of past accomplishments and exceptional promise for future growth in research, as well as excellent teaching skills.

Applicants should submit a Curriculum Vitae, a list of publications, a brief description of research interests and goals, and should have three letters of reference sent directly to:

**Professor Joseph Rudnick, Chairman, Attention: Particle Theory Search,
Dept. of Physics and Astronomy, UCLA, Los Angeles, CA 90075.**

Nominations may be sent to the same address.

Applications should be received by December 15, 2007.

UCLA is an equal opportunity employer.



UNIVERSITÀ DEGLI STUDI DI MILANO Department of Physics

PhD SCHOOL ON PHYSICS, ASTROPHYSICS AND APPLIED PHYSICS

The International Research Doctorate School in "Physics, Astrophysics and Applied Physics", established by the Department of Physics, the Department of Chemistry, Biochemistry and Biotechnology for the Medicine, the Institute of Applied Physics, of the Milano University, and by the Department of Mathematics and Physics of the Brescia University, opens 35 PhD positions.

*The School awards: 1 fellowship of 12000,00 Euro per year net, plus 20 fellowships of about 9930,00 Euro per year net. Non EU citizens and EU citizens, non resident in Lombardy, qualify for a financial support for lodging and travel. The candidates can apply starting from July 28, 2006; the **deadline** for the application is **September 30, 2006**.*

The Doctorate School offers a three years long international training curriculum, with intensive courses, series of seminars, research stages in high quality, public and private Laboratories for fundamental and applied Physics. The students will be involved in research projects in all mainstream areas in Physics, namely: Condensed Matter, Quantum Optics, Nanotechnologies, Biophysics, Biotechnology, Accelerator and Underground Particle Physics, Nuclear Physics, Astroparticle, Astrophysics, Cosmology, Theo-retical Physics, Applied Superconductivity, Electronics, Earth Physics, Environment, Medical and Health Physics.

Information and application form can be found in the following web sites: <http://www.unimi.it/ricerca/dottorati/15434.htm> and http://www.fisica.unimi.it/~postlaur/phys/Concorsi/Concorsi_di_Ammissione.html



University of Hamburg

Faculty of Mathematics, Informatics and Natural Sciences
Department of Physics
Institute for Experimental Physics

The Institute for Experimental Physics invites applications for the position of a
**Professor (W2) for Experimental Particle Physics
(Astroparticle-Physics – Succession Prof.G.Heinzelmann)**

Through its work on HEGRA and HESS the Physics Department has contributed significantly to TeV-gamma-astronomy. The candidate will lead the activities of the Institute in astroparticle-physics. Collaboration with the local groups working in experimental and theoretical particle physics and in astro-physics is strongly encouraged. Participation in the SFB 676 "Particle, Strings and the Early Universe", which supports this research, is expected.

Teaching of 8 hours weekly, which includes undergraduate and graduate lectures, labs, tutoring, seminars and the supervision of diploma and PhD students, is required.

A PhD in physics and demonstrated achievements in astroparticle-physics as well as experience in teaching and/or the supervision of students are required.

The University of Hamburg is an equal opportunity/affirmative action employer and welcomes the application of qualified women. Handicapped applicants will be given preference in case of equal qualifications.

The position is open starting Jan. 1st 2007. Applications, including a CV, academic records, list of publications and the names of three persons willing to provide further information on the candidate, should arrive by **Sept. 30th 2006** at: **President of Hamburg University, Referat Personal&Organisation 632.5, Moorweidenstr.18, D-20148 Hamburg.**

For further information contact: **Robert.Klanner@desy.de +49 (0)40 8998 2558.**

Post-Doctoral Position

The experimental high energy physics group at the University of Hawaii invites outstanding applicants for a position of Postdoctoral Fellow. Full time, federally funded and renewable for second and third year depending on funding and satisfactory performance. The successful candidate will participate in the Belle experiment at the KEKB asymmetric e^+e^- collider at the KEK laboratory in Japan. The primary goals of the experiment are to investigate CP violation in the decays of B mesons and search for physics beyond the Standard Model. The Hawaii Belle group participates in the analysis of Belle data, the development and commissioning of a second generation CMOS pixel detector for the ILC (International Linear Collider) and Super-KEKB upgrade, and the operation of the sub 100ps resolution time-of-flight detection system.

Minimum Qualifications: PhD in experimental high energy physics is required; experience with modern electronics, particle detectors and data analysis techniques is desirable.

Stipend: commensurate with experience and qualifications.

To Apply: submit curriculum vita and arrange for three letters of recommendation to be sent to Prof. Gary Varner, c/o Ms. Janet Bruce, Department of Physics and Astronomy, University of Hawaii at Manoa, 2505 Correa Road, Honolulu, HI 96822.

Recruitment will remain open until position is filled; however, applications received after December 15, 2006 may not receive full consideration.

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Imperial College
London



Joint Fellowships in Accelerator Science

Fermi National Accelerator Laboratory, USA, and Imperial College London, UK, have established two three-year joint fellowships in accelerator science.

The posts will be hosted by the Imperial HEP Group and it is expected that the fellows will spend approximately 50% time in each location. The posts will enhance the Imperial College Group's R&D program in Accelerator Science where there is common ground with the Fermilab program. This will be directed towards a future neutrino facility and/or linear collider.

You will be expected to hold a PhD in accelerator science or experimental particle physics or have equivalent experience. Each fellow will hold a contract of employment with Imperial College London but, as half the time will be spent at Fermilab, the fellow must satisfy the necessary US visa and Department of Energy regulations. Starting salary in the range £29,090 to £30,710 depending on experience. An additional travel allowance will apply to these positions.

A job description and an application form can be obtained from Ms Paula Brown, HEP Group, Department of Physics, Blackett Laboratory, Imperial College London SW7 2AZ (email Paula.Brown@imperial.ac.uk). Candidates should arrange for 3 letters of reference to be sent to Ms. Brown. For a full version of this advert please refer to <http://www.imperial.ac.uk/research/hep/vacancies/accel.htm> Please quote ref: 0012 on all correspondence

The closing date for applications is 22 September 2006.

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for Accelerator Science*



UNIVERSITY OF
OXFORD

Two Lectureships in Accelerator Physics



**University Lectureship Salary Approximately:
£49,000 p.a.**

**Departmental Lectureship Salary Approximately:
£28,000 p.a.**

(under review)

Applications are invited for a permanent University Lectureship and a 5-year fixed-term Departmental Lectureship in Accelerator Physics, part of the John Adams Institute for Accelerator Science (JAI), Oxford.

One of these posts will be a joint appointment with the CCLRC Accelerator Science and Technology Centre, to work on the International Linear Collider, focussed on beam dynamics and beam transport simulations. Further particulars and information on how to apply are available on <http://www.physics.ox.ac.uk/pnp/jobs/jai-UL-fp.htm> The second post will work on the Neutrino Factory and the Muon Ionisation Cooling Experiment (MICE). Further particulars and information on how to apply are available on <http://www.physics.ox.ac.uk/pnp/jobs/jai-DL-fp.htm>

Further information on both posts can be obtained from Mrs Sue Geddes, Denys Wilkinson Building, Keble Road, Oxford OX1 3RH, UK, e-mail: s.geddes@physics.ox.ac.uk fax: +44 (0)1865 273417, Informal enquiries about this post may be made to Professor Ken Peach, k.peach@physics.ox.ac.uk The application deadline for both posts is 15th October 2006.

The University is an Equal Opportunities Employer.

www.ox.ac.uk/jobs

2007 Chamberlain Fellowship

Lawrence Berkeley National Laboratory (LBNL) is located in the San Francisco Bay Area on a 200-acre site in the hills above the University of California's Berkeley campus and is managed by the University. A leader in science and engineering research for more than 75 years, LBNL is the oldest of the U.S. Department of Energy's National Laboratories.

The LBNL Physics Division invites outstanding recent Ph.D. recipients to apply for the 2007 Owen Chamberlain Fellowship in experimental particle physics and cosmology. Students who expect to receive their Ph.D. degree by the spring of 2007 are also invited to apply.

A Chamberlain Fellow is appointed for three years, with two years of extension possible upon review. Upon appointment, a Chamberlain Fellow is given time to review the Division's research program, and may choose to participate in any aspect of it. With the Division Director's approval, he/she may also pursue new initiatives within experimental particle physics or cosmology. In addition to his/her salary, a Chamberlain Fellow receives a \$5,000 annual research supplement. Funding for new initiatives is available through a competitive Laboratory-wide program.

Opportunities for participation in exciting and diverse physics programs are found both at LBNL and on the UC Berkeley campus, including research mentorship of physics Ph.D. students. Close interactions with local astrophysics communities are possible, as are the relationships with nuclear and accelerator scientists, and there is access to world-leading computation facilities. For information on the LBNL Physics Division's research program, please consult <http://www-physics.lbl.gov>.

This Fellowship honors Berkeley Nobelist Owen Chamberlain, who (with Emilio Segre, Clyde Wiegand, and Thomas Ypsilantis) discovered the antiproton at the Berkeley Bevatron in 1955.

Applications will be considered starting **October 16, 2006**. To be considered, please submit your curriculum vitae, publication list, and statement of research interests in a single attachment on line at <http://jobs.lbl.gov>. In addition, at least three letters of reference must be emailed to Chamberlain.Fellow@lbl.gov by **October 29, 2006**. Please reference **Job #019247**.

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Particle and Accelerator Physics



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.

For the experiments H1, ZEUS and HERMES at the ep collider HERA, the experiments ATLAS and CMS at LHC, and for the preparations of the International Linear Collider ILC (accelerator and experiments) several

DESY Fellowships

at Hamburg and Zeuthen are announced. Young scientists who have completed their Ph.D. are invited to submit their application including a resume and the usual documents (curriculum vitae, list of publications and copies of university degree). They should arrange for three letters of recommendation to be sent to the personnel department of DESY. The DESY Fellowships are awarded for a duration of 2 years with the possibility for prolongation by one additional year.

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.

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Deadline for applications: September 30, 2006

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Tel: +44 (0)117 930 1027 E-mail: adam.hylands@iop.org.

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DEPARTMENT OF PHYSICS

Two Lectureships in Astrophysics

£28,850 - £37,643

As one of the elements of a major strategic investment in the Physics Department, which includes a £44m development of research and teaching facilities and an injection of new posts, the University invites applications for two Lectureships in Astrophysics. The successful candidates will have excellent research records or have demonstrated outstanding research potential, and will lead research in an area related to the Astrophysics Group's core interests in observational and theoretical work on the formation and cosmological evolution of galaxies and larger scale structures, including the astrophysics and feedback of active galaxies. The Bristol Astrophysics Group makes major use of international ground and space-based observational facilities in pursuit of its research aims, working at the lowest accessible radio frequencies, to CMB studies at cm and mm wavelengths, to significant programmes with the VLT and HST, and major studies with Chandra and XMM-Newton. The Group wishes to make these new appointments to consolidate and broaden its thematic research base.

Informal enquiries (not applications) can be made to Professor M Birkinshaw, mark.birkinshaw@bristol.ac.uk or Professor D Worrall, d.worrall@bristol.ac.uk

Lectureship in Experimental Particle Physics

£28,850 - £37,643

The successful candidate will have an excellent research record or have demonstrated outstanding research potential in the subject area, and will take a leading role in a vibrant research programme as a member of the Linear Collider Flavour Identification (LCFI) Collaboration. You will be involved with all aspects of the LCFI programme, including developing a silicon pixel vertex detector for the International Linear Collider and the software tools to exploit it, and will be expected to drive the effort on physics studies within the Bristol LCFI group. The Bristol particle physics group has designed and built major components of the trigger for ZEUS, BaBar and CMS. We have contributed to the mechanical design of RICH detectors for LHCb and electromagnetic calorimeter endcaps for CMS, and the group has played leading roles in the analysis of data from both ZEUS and BaBar. This experience, expertise and the associated infrastructure is now being used to support a major expansion of activities on the ILC, within the framework of LCFI.

Informal enquiries (not applications) can be made to Professor N Brook, n.brook@cern.ch or Dr J Goldstein, j.goldstein@rl.ac.uk

Further details and an application form can be found at www.bristol.ac.uk/vacancies Alternatively you can telephone (0117) 954 6947 or e-mail recruitment@bristol.ac.uk (stating postal address ONLY), quoting reference number 12360.

The closing date for applications is 9.00am, 18th September 2006.

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- QQ: Solid-State Chemistry of Inorganic Materials VI

MEETING ACTIVITIES

SYMPOSIUM TUTORIAL PROGRAM

Available only to meeting registrants, the symposium tutorials will concentrate on new, rapidly breaking areas of research.

EXHIBIT

A major exhibit encompassing the full spectrum of equipment, instrumentation, products, software, publications, and services is scheduled for November 28–30 in the Hynes Convention Center. Convenient to the technical session rooms and scheduled to complement the program, the MRS Fall Exhibit offers everything you need all under one roof.

PUBLICATIONS DESK

A full display of over 915 books will be available at the MRS Publications Desk.

STUDENT OPPORTUNITIES

Graduate students planning to attend the 2006 MRS Fall Meeting are encouraged to apply for a Symposium Assistant position and/or a Graduate Student Award.

CAREER CENTER

A Career Center for MRS members and meeting attendees will be open Tuesday through Thursday.

The 2006 MRS Fall Meeting will serve as a key forum for discussion of interdisciplinary leading-edge materials research from around the world.

Various meeting formats—oral, poster, round-table, forum and workshop sessions—are offered to maximize participation.

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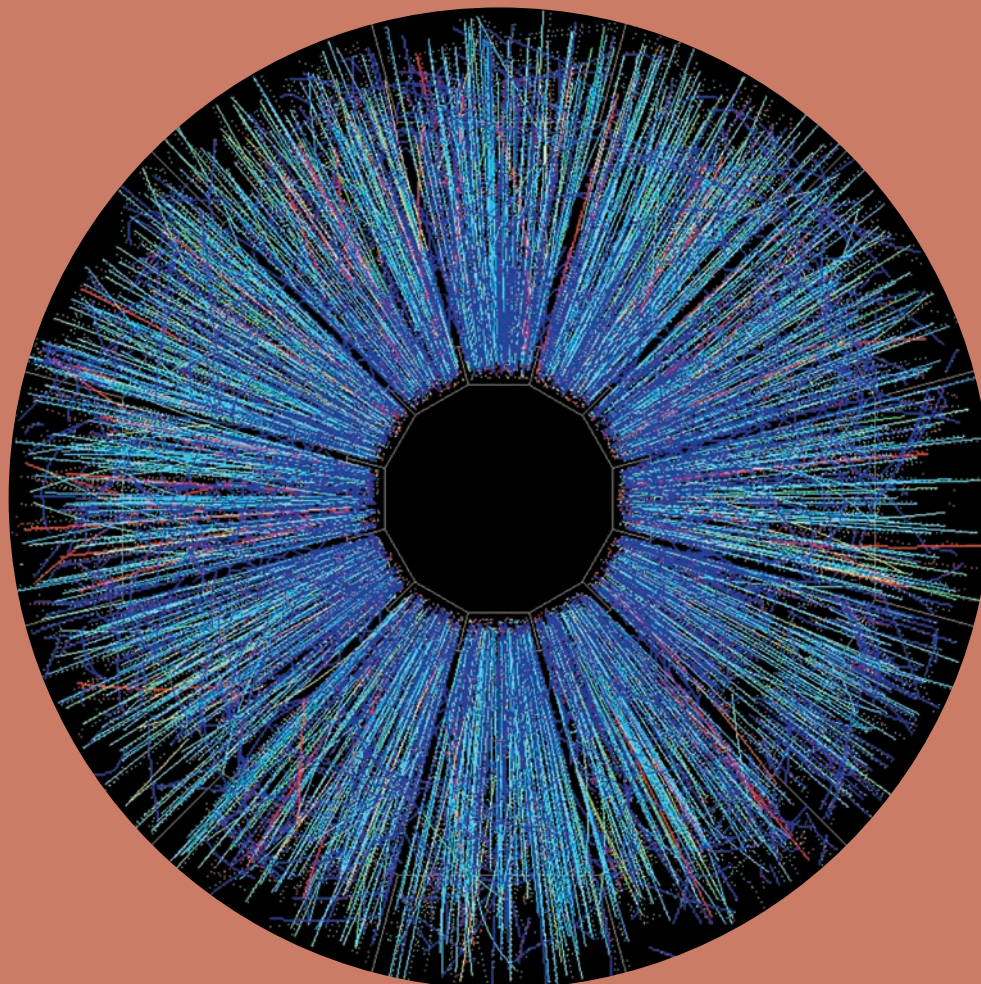
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Image: End view of a collision of two 30-billion electron-volt gold beams in the STAR detector at the Relativistic Heavy Ion Collider at Brookhaven National Laboratory. Courtesy of Brookhaven National Laboratory

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