

Recruitment

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IMPERIAL COLLEGE LONDON FACULTY OF NATURAL SCIENCES, DEPARTMENT OF PHYSICS

**Imperial College
London**

**LECTURER
£42,500 - £47,450 pa**



Imperial College London has established research activity in the area of high current proton beams for various applications in particle and nuclear physics as well as health sciences. 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 sciences and various applications to society in the areas of health, medicine, energy and security. Imperial College, via joint collaborative research activities established in 2009, affiliates with 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 internationally leading joint activity, applications are invited for a Lecturer in Accelerator Physics at Imperial College, which will be a joint appointment between Cockcroft Institute and

Imperial College London and will be based in the High Energy Physics Group of the Department of Physics and will work closely with the Department of Surgery and Cancer. The successful candidate will be expected to contribute to the particle accelerator research programmes both at the Department of Physics of Imperial College and at the Cockcroft Institute, spending roughly equal amounts of time at the two institutions. The successful candidate will develop a joint research programme encompassing the development of accelerator techniques for particle-beam therapy and contribute to the development of capability in the provision of pulsed proton beams towards various sub-atomic sciences. A key research initiative will be the development of the clinical applications of Hadron and Laser Therapy. The successful candidate will have an international reputation for research and innovation in Accelerator Physics or a related field, combined with the potential to raise significant external research funding from UK and EU sources to support

research activities in accelerator R&D. In addition the successful candidate will have a good honours degree and doctorate (or equivalent) in a relevant subject area in addition to the ability to teach at undergraduate or masters level.

Within Imperial College, the successful candidate will be expected to work closely with the Department of Physics, the CRUK Centre, collaborating in particular with those studying the effects of radiation on cellular processes such as cell division and DNA repair, and the Radiotherapy Department of Imperial College Healthcare NHS Trust. In the longer term, the successful candidate will be expected to join a team to study these effects in vivo, with the aim of developing the clinical applications of particle beam therapy. The successful candidate will also be expected to interact closely with postgraduate students and postdoctoral research associates and will have some involvement with undergraduate education.

Closing Date: 31 August 2011

Please apply online via our website <http://www.imperial.ac.uk/employment> (select "Job Search" then enter the job title or vacancy reference number into "Keywords" – vacancy ref: NS2011079NT). Complete and upload an application form as directed, also providing a CV and a list of publications. For Further details on the Cockcroft Institute, please see <http://www.cockcroft.ac.uk>



ELEKTA

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

We have a number of vacancies for Physicists to join our R&D Physics group in Crawley. The Physics group is responsible for providing support to the business and contribute with designs and measurements in the following areas: Physics of Radiotherapy Systems, including beam generation and dosimetry (electron beams, MV and kV photon beams), general Radiation Physics, Monte Carlo simulations and other computational modelling methods, Control Systems for experiments, Microwave components and theory, Waveguide testing and tuning, Optics, Physics of Detectors and Imaging Systems.

Successful applicants will take a leading role in supporting the development of new products and will be involved on a number of projects including both computational and experimental activities. Ideally candidates will have experience of medical accelerator systems and the ability to contribute in several of the areas that the Physics group is responsible for. Projects will often offer interaction with Research Hospitals and other Institutions, therefore exceptional written and spoken communication skills will be required. Our preference is for candidates to be educated to MSc or PhD level. The ability to work to tight deadlines and within a successful team is also essential for these roles.

Current vacancies include (but are not limited to):

- **Radiotherapy System Physicist:** You will take a leading role in designing, planning, implementing and managing test programmes in order to produce performance data for Elekta Linac systems. You will be involved in a variety of R&D projects. You will ideally

have an MSc or a PhD degree in Medical Physics, Radiation Physics or closely related discipline and a minimum of 3 years experience working within the Medical Devices industry or a Radiotherapy Hospital department (although experience as a Radiation Physicist in another area will be considered). Experience with international compliance standards and/or Physics QA programmes will be an advantage.

- **Accelerator Physicist:** You will provide the business with technical support of Elekta RF electron linear accelerators and associated developments, with particular focus on beam generation, transport, control and monitoring. This role will require an understanding of periodic accelerating structures, electron sources, RF sources and electron beam dynamics. Ideal candidates will have a PhD degree in Physics, Accelerator Physics, Particle Beam Physics or closely related discipline. Candidates will have ideally a minimum of 5 years experience as an accelerator physicist, involved with modelling aspects of accelerating structures as well as beam experiments, either in a research or industrial environment. However applicants with less experience yet exceptional skills will also be considered.
- **Imaging Physicist:** We also have an upcoming requirement for an Imaging Physicist.

Elekta offer competitive salary packages and a range of benefits including 25 days holiday, Private Medical Insurance and an excellent Pension scheme.
For further details please apply today by sending your CV to recruitment.uk@elekta.com and quote which position you are interested in.

University of California, Los Angeles

Faculty Position in Experimental Nuclear and Elementary Particle Physics

The Department of Physics and Astronomy at the University of California, Los Angeles invites applications for a tenure track, assistant professor position in experimental nuclear and elementary particle physics. The department is seeking outstanding candidates with the potential for exceptional research and excellence in teaching, and also a clear commitment to enhancing the diversity of the faculty, graduate student population, and of the majors in physics and astronomy. The UCLA Department of Physics and Astronomy has very active research programs in nuclear and particle physics that include Heavy Ion Collisions and Spin Physics at RHIC, CMS Collider Physics at LHC, Direct and Indirect Dark Matter Detection, Very High Energy Cosmic Neutrinos, Gamma-Ray Astronomy, and Neutrinoless Double Beta Decay. Candidates from all nuclear and particle physics areas are invited to apply, particularly those from RHIC, $0\nu\beta\beta$ and LHC physics. Applicants should submit a curriculum vita, a statement of research interests, a list of publications, and arrange to have no more than three letters of recommendation sent to:

Email: NP-EPP@physics.ucla.edu (preferred) or
Office of the Chair
Attn: Experimental NP-EPP Search
UCLA Department of Physics and Astronomy
475 Portola Plaza, Rm. 2-707 PAB
Box 951547
Los Angeles, CA 90095-1547

The deadline is September 30, 2011. However, the search will remain open until the position is filled. Please refer to Tracking #1000-1112-01 in all correspondence.

The Department has a strong commitment to the achievement of excellence and diversity among its faculty and staff.

The University of California is an Equal Opportunity/Affirmative Action Employer.



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The University of Birmingham is inviting applications for a newly introduced Birmingham Fellowship scheme, which offers 5 years research funding to outstanding postdoctoral researchers. Fellows who excel will move into a permanent academic post at the end of the fellowship.

High Energy Physics has been identified as a priority area in this university-wide initiative. The deadline for applications is 1 September 2011, but early contact with us is encouraged.

Learn more

Birmingham Fellowships:

www.birmingham.ac.uk/birminghamfellows

High Energy Physics: www.birmingham.ac.uk/staff/excellence/fellows/areas/high-energy-physics.aspx

Email: paul.newman@cern.ch

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RWTH AACHEN UNIVERSITY

Postdoctoral position in experimental particle physics

Physics Institute III A

Our Profile:

The research program of the institute is experimental particle physics and astroparticle physics at the highest energies. We participate in the data analyses and upgrade programs of the CMS experiment (Switzerland) and the Pierre-Auger-Observatory (Argentina).

Your Profile:

Applicants must hold a doctoral degree.

The applicant must hold a PhD degree in experimental physics and have experience in international high energy particle physics experiments, with special qualifications in physics data analysis. A team-oriented work style is expected.

Your duties and responsibilities:

The applicant is expected to take a leading role in data analysis in the area of Supersymmetry, or Top quark physics with the CMS experiment. An active commitment in teaching is expected in addition.

Postdoctoral position in astroparticle physics

Physikalisches Institut III A

Our Profile:

The research program of the institute is experimental particle physics and astroparticle physics at the highest energies. We participate in the data analyses and upgrade programs of the CMS experiment (Switzerland) and the Pierre-Auger-Observatory (Argentina).

Your Profile:

Applicants must hold a doctoral degree.

Applicants must hold a PhD degree in experimental physics and have experience in international astroparticle physics experiments, with special qualifications in physics data analysis. A team-oriented work style is expected.

Your duties and responsibilities:

The applicant is expected to take a leading role in data analysis in the area of Cosmic Ray Physics with the Pierre-Auger-Observatory. An active commitment in teaching is expected in addition.

Our offer:

The candidate will be employed as a regular employee.

The position is to be filled as soon as possible and is for a fixed term of 3 years. This is a full-time vacancy. The pay scale classification complies with the labour agreement TV-L. RWTH Aachen University has been certified as a "Family Friendly University". RWTH is committed to promoting the careers of women and therefore looks forward to receiving applications by female candidates. For positions in organisational units where women are underrepresented, in cases of equal qualification, ability and professional achievement, preference will be given to female applicants unless reasons specific to an individual candidate tilt the balance in his favour. The University positively welcomes applications from suitably qualified disabled people.

Your contact person:

For further information, please contact Prof. Dr. Thomas Hebbeker

Tel.: +49 (0) 241 80 27330, Fax: +49 (0) 241 80 22189, Email:

hebbeker@physik.rwth-aachen.de or Dr. Markus Merschmeyer

Tel.: +49 (0) 241 80 27330, Fax: +49 (0) 241 80 22189, Email:

merschmeyer@physik.rwth-aachen.de

You can also obtain further information from our websites: physik.rwth-aachen.de/institute/institut-iiia/

Please send your application by 31 July 2011 to Prof. Dr. Thomas Hebbeker

Physikalisches Institut III A Physikzentrum

Otto-Blumenthal-Str. Turm 26 D-52056 Aachen Germany or submitted via

mail to Prof. Thomas Hebbeker hebbeker@physik.rwth-aachen.de

Applications by e-mail are questionable from a data protection point of view.

The applicant is fully responsible for submitting an application by e-mail. It is recommended that applicants submit written applications by post.

Project Manager

£40,000 - £55,000, depending on experience

Tessella delivers software engineering and consulting services to scientists and engineers in leading companies across the globe. We are currently looking to recruit Project Managers who will help drive our business forward.

This is a varied, challenging and rewarding role:

- Working with sales staff to understand a prospect's problem
- Gathering requirements, analysing needs, feeding back to the client
- Architecting technical solutions by working closely with others
- Managing the full project lifecycle from first meeting to delivery
- Being an active line manager

You should have a scientific or numerate degree (BSc, MSc, or PhD), experience of hands-on software development and a track record of Project Management including the successful delivery of fixed price projects.

For more information on this and our other vacancies and to apply online, visit

jobs.tessella.com



Physicists / Engineers

Cryogenic Ltd is looking to recruit Physicists or Engineers for expansion in our Low Temperature Measurement Systems department.

Responsibilities include control over production and testing of measurement systems, as well as product development focussed on innovation and delivering state of the art solutions for low-temperature research.

Suitable candidates will have low temperature physics, electronics, or NMR experience at graduate, PhD or post doctoral level.

Strong problem solving and communication skills are essential.

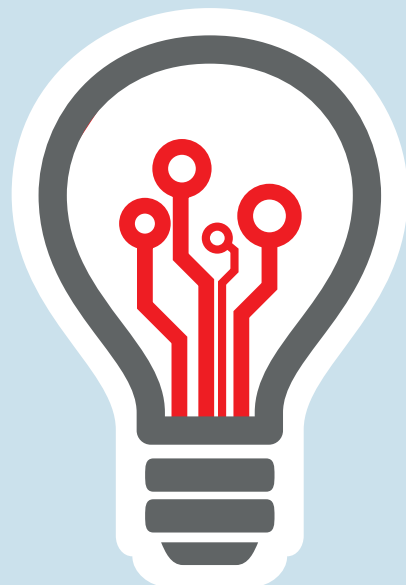
Please e-mail a covering letter and CV to:
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London W3 7QE, UK

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and engineering