

Recruitment

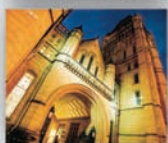
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The Cockcroft Institute ...

Innovating amazing beams of particles and light...
to interrogate nature

Apply Now

Cockcroft Post Doctoral Fellows for investigations in an advanced Free Electron Laser test facility CLARA at Daresbury Laboratory, UK and in superconducting microwave beam electrodynamics in the European Spallation Source (ESS) at Lund, Sweden



The Cockcroft Institute, a unique collaboration between the Universities of Liverpool, Manchester, Lancaster, the Science and Technology Facilities Council and industry, brings together the best accelerator scientists, engineers, educators and industrialists to conceive, design, construct and use innovative instruments of discovery and to lead the UK's participation in flagship international experiments. It has major collaborations with CERN, DESY, RIKEN, Jefferson Lab, FNAL, LBNL, SLAC, VECC and world leading universities such as UC Berkeley, Stanford, Cornell, MIT, Cambridge, Imperial College, Strathclyde and IISc (Bangalore). The Institute has been involved in the development of the UK's first Free Electron Laser (FEL) on the ALICE accelerator test facility and is contributing towards development of an advanced FEL test facility (CLARA) to advance worldwide FEL research. The institute is also in collaboration with the ESS at Lund, Sweden in studying various accelerator structures and radiofrequency sources.

As founding members of the Cockcroft Institute, the Universities of Liverpool and Manchester are seeking to appoint two post-doctoral research associates to contribute to the ongoing development of CLARA and ESS. The CLARA FEL research involves investigations of novel concepts for the production of ultra-short FEL pulses of varying colours for the next generation of FELs. There will also be opportunities to take part in experiments aimed at optimising and enhancing the ALICE FEL performance. The ESS research associate, will use state-of-the-art computer codes for modelling rf cavities and studying beam dynamics in multi-cavity systems. Both posts will involve analysis, simulation and experimental research in close collaboration with institute members in other universities as well as in Daresbury and Rutherford Appleton Laboratories.

Applicants must have a Ph.D. in accelerator physics, particle physics, electrical engineering or a related discipline. Informal inquiries about the institute may be made to Professor Swapan Chattopadhyay (swapan@cockcroft.ac.uk), about the ESS position to Professor Roger Jones (r.m.jones@cockcroft.ac.uk) and about the CLARA FEL position to Dr. David Newton (D.Newton@liverpool.ac.uk).



Professor Fellowship in Theoretical Nuclear Physics

The International Institute of Physics is offering a long term visiting Professor Fellowship in Theoretical Nuclear Physics. Prospective candidates should demonstrate expertise and research abilities in a variety of fields of Hadron Physics such as (large Nc) QCD, few and Many Body Nuclear Systems, Hadronic Matter at High Temperature and/or Density, Ultracold Atoms and Nuclei, Graphene, etc. Preference will be given to candidates whose research interests potentially overlap with those of the group at the IIP, which include String Theory and Applications of AdS/CFT Correspondence to Nuclear Physics and Condensed Matter, Quantum Information Theory, Statistical Field Theory and Strongly Correlated Electron Systems.

To apply, candidates should send by email (professorship_applications@iip.ufrn.br), a CV with list of publications and a Research Plan. The position entitles the successful candidate to a monthly net income of R\$ 8.000,00 (US\$ 4.000,00) a return ticket, and an installation allowance of R\$8.000,00 upon arrival). **Application Window: from August 20 to September 30, 2012.**

For more information access our web page on www.iip.ufrn.br

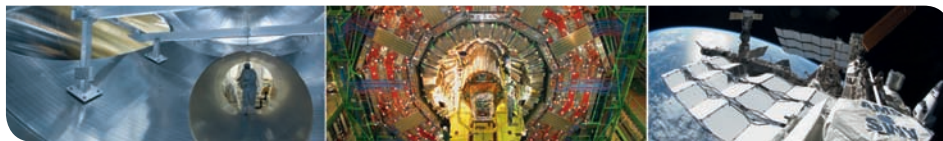
Five postdoctoral positions in the fields of Condensed Matter Physics, Theoretical Nuclear Physics, Quantum Information Theory, Statistical Field Theory and String Theory

The International Institute of Physics is expecting to fill five postdoctoral positions in the fields of Condensed Matter Physics, Theoretical Nuclear Physics, Quantum Information Theory, Statistical Field Theory and String Theory, starting on November, 2012.

Prospective candidates should send by email (postdoctoral_applications@iip.ufrn.br), a CV with the list of publications, a statement of research interests and two letters of reference.

The position entitles the successful candidate to a monthly net income of R\$5.000,00 (US\$ 2.500,00) a return ticket, and an installation allowance of R\$5.000,00 upon arrival). **Application Window: From August 20 to September 30, 2012.**

KSETA Karlsruhe School of Elementary Particle and Astroparticle Physics: Science and Technology



The KIT-Center Elementary Particle and Astroparticle Physics KCETA is a major institution in elementary particle and astroparticle physics and technological developments. Our topics include cosmic rays, Dark Matter, quantum field theory, collider physics, flavour physics, neutrino physics and computational physics. We combine fundamental research – in theory and experiment – with the development of related modern technologies like superconducting detectors with terahertz bandwidth, analog and digital electronics, optical data transmission technology and parallel signal processing on FPGAs and GPUs. KCETA is a major contributor to leading-edge large-scale research projects such as AMS, Auger, Belle, CMS, EDELWEISS, JEM-EUSO and KATRIN; we host the German Tier-1 center GridKa and coordinate the Helmholtz Alliance for Astroparticle Physics.

KSETA has open positions for doctoral researchers in elementary particle physics, astroparticle physics and advanced technologies



The Graduate School KSETA has been established in the framework of the German Excellence Initiative; it will be in full operation from November 2012. We offer an inspiring interdisciplinary environment, international networking with research visits abroad, tailor-made course programs and career promotion.

Partner network:

- CERN (Switzerland)
- Fermilab and LBNL (USA)
- KEK (Japan)
- UNSAM and ITeDA (Argentina)

Visit www.kseta.kit.edu



KIT – University of the State of Baden-Württemberg and National Research Center of the Helmholtz Association

www.kit.edu

Chief Scientist to lead a new laboratory in Nuclear Physics, RIKEN, JAPAN

RIKEN invites applications for the position of Chief Scientist (Laboratory Director) to lead a new laboratory in experimental nuclear physics using the RI Beam Factory (RIBF) of RIKEN Nishina Center for Accelerator-Based Science.

The present position is a permanent appointment, subject to RIKEN's mandatory retirement age of 60. RIKEN expects that the successful applicant will be able to take up this position on April 1st, 2013.

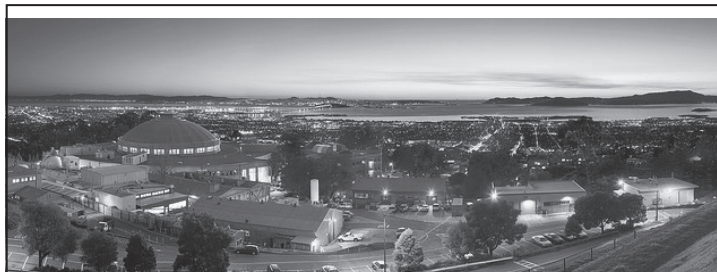
Applicants should send a full curriculum vitae and photograph; list of publications; one copy each of five key publications; a statement (about five pages A4 sized paper) explaining former research experience, and proposals for research at RIKEN; and the names and addresses of three referees.

All applications should reach RIKEN by September 24th, 2012.

Applicants should address all correspondence to: Dr. Hiroyoshi Sakurai, Chair of the Chief Scientist Search Committee, RIKEN Nishina Center for Accelerator-Based Science, 2-1 Hirosawa, Wako, Saitama 351-0198, JAPAN (E-mail address: sakurai@ribf.riken.jp)

For more information, please visit:

http://www.riken.jp/engn/r-world/info/recruit/k120924_e_rnc.html



LBNL Divisional Fellow - Experimental Particle Physics

The Physics Division at Lawrence Berkeley National Laboratory (LBNL) invites applications for a scientist with a record of accomplishment, creative ability, and outstanding promise in the field of experimental particle physics to work on the ATLAS experiment at the Large Hadron Collider.

The Divisional Fellow position is a five-year appointment with the expectation of promotion to a career position as a Senior Staff Scientist, and is similar to a tenure track junior faculty position at a university.

Candidates should have several years of experience in experimental particle physics beyond the Ph.D. and have demonstrated leadership and original achievements in research, or overall equivalent experience.

Please apply at

<http://go.lbl.gov/df-epp>

For full consideration, please submit application materials by November 12, 2012.

For inquiries, please contact:

Amy Pagsolangan
(AVPagsolangan@lbl.gov)

www.lbl.gov



AA/EEO

Accelerators | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association

PARTICLE PHYSICS.

DESY has openings for: DESY-Fellowships (m/f)

DESY

DESY is one of the world's leading centres for the investigation of the structure of matter. DESY develops, runs and uses accelerators and detectors for photon science and particle physics.

The position

Fellows in experimental particle physics are invited to participate in DESY's particle physics research.

- Analysis and detector-upgrade in the LHC experiments ATLAS and CMS
- Preparation of the International Linear Collider ILC (accelerator and experiments)
- Cooperation in the Analysis Centre of the Helmholtz Alliance "Physics at the Terascale"
- Participation in experiments like ALPS and OLYMPUS
- Cooperation in the BELLE II experiments
- Analysis of HERA data

Requirements

- Ph.D. completed within the last 4 years
- Experience in experimental particle physics

DESY-Fellowships are awarded for a duration of 2 years with the possibility of prolongation by one additional year.

Please submit your application including a resume and the usual documents (curriculum vitae, list of publications and copies of university degrees) to the DESY human resources department. Please arrange for three letters of reference to be sent before the application deadline to the DESY human resource department.

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: EM100/2012

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

E-Mail: personal.abteilung@desy.de

Deadline for applications: 30 September 2012

www.desy.de

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



The Excellence Cluster for Fundamental Physics

'Origin and Structure of the Universe'



RESEARCH FELLOWS in

Astrophysics, Cosmology, Nuclear and Particle Physics

The Excellence Cluster "Origin and Structure of the Universe" was established at the Technische Universität München (TUM) in October 2006 within the framework of the Excellence Initiative. The interdisciplinary research project unifies the physics faculties of TUM and Ludwig-Maximilians-Universität (LMU) as well as University Observatory of the LMU, several Max-Planck-Institutes (MPA, MPE, MPP, IPP) and the European Southern Observatory (ESO). The main goal of the Universe Cluster is to solve fundamental questions of physics, astrophysics, cosmology as well as nuclear and particle physics.

As part of our **FELLOWSHIP PROGRAM** we are looking for excellent young scientists on the postdoc level. Fellows will have the opportunity to work independently and potentially pursue an interdisciplinary research program in any research area of the Universe Cluster (theoretical or experimental). Fellowship appointments will be for a 3-year term and come with a budget of EUR 5K/year.

APPLICATION

Candidates should send a cover letter, a complete curriculum vitae, a list of publications, a PhD certificate, a brief statement of research accomplishments and a research plan. Please upload these separate documents in the job section of the Cluster website **www.universe-cluster.de**. Please also arrange for 3 letters of recommendation to be sent to **job@universe-cluster.de**.

Applications from women and candidates with disabilities are especially encouraged and will be given preference to other applicants with equal qualifications. The application deadline is **October 31, 2012**.

CONTACT

Technische Universität München · Excellence Cluster Universe
Dr. Andreas Müller · Boltzmannstrasse 2
85748 Garching · Germany

High Energy Physics Group
Dept of Physics & Astronomy



Lectureship in Particle Physics (UCL Reference: 1260289)

Applications are invited for a lecturer post in the High Energy Physics Group in the Department of Physics and Astronomy at UCL.

The successful candidate will be expected to take a leading role in the ATLAS upgrade project, to publish research from the current ATLAS data and to raise the funds to support their research programme. They will also be expected to participate in the Department's teaching programme at undergraduate and graduate level including: lecturing, problem-solving tutorials, laboratory demonstrating and dissertation supervision.

Depending on experience, the salary will be in the Lecturer Grade 8 range: £39,818 to £46,972 per annum inclusive of London Allowance.

More details about the application procedure, the position, the UCL ATLAS group, the High Energy Physics Group, the Department of Physics and Astronomy, and UCL can be found at **http://www.hep.ucl.ac.uk/positions/lectureship_2012.shtml**

The closing date for applications is 5pm on Monday, 3 September 2012.



“The universe is written in the language of mathematics.” These words of Gallileo, who lived at the dawn of cosmology in the 16th to 17th century, give an important foresight to the strategy we must take at the Kavli Institute for the Physics and Mathematics of the Universe to answer big questions we face today.

Kavli IPMU probes the deep mysteries of the universe through collaborative research conducted by a range of scientists, including mathematicians, theoretical physicists, experimental physicists and astronomers.

The institute was established in 2007 as one of Japan's five elite World Premier International Researcher Centers. It became the first member institute of the newly created Todai Institutes for

Advanced Study of the University of Tokyo in 2011. In April 2012, the IPMU became the Kavli IPMU by accepting the donation from the Kavli Foundation, a southern California based philanthropic organization devoted to the promotion of four scientific fields including astrophysics and theoretical physics.

Kavli IPMU has about 85 core researchers.

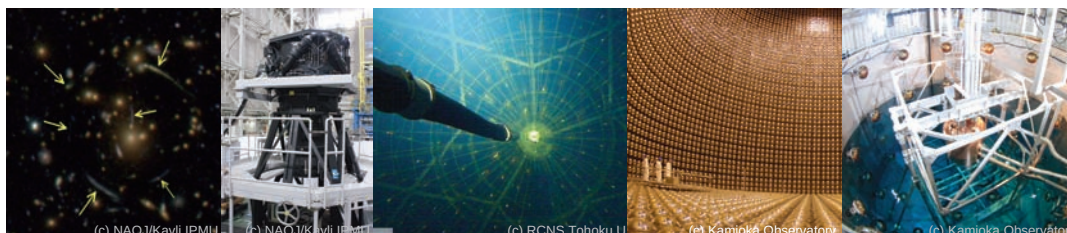
More than half of them come from overseas.

Including affiliate members and students, it is an international research center for some 200 researchers.

Openings for faculty and postdoc positions are announced in October each year.

Visit our website:

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



Kavli Institute for the Physics and Mathematics of the Universe
5-1-5 Kashiwanoha
Kashiwa, 277-8583 Japan
<http://www.ipmu.jp/>
e-mail: inquiry@ipmu.jp



IceCube Computing Facilities Manager

The **University of Wisconsin-Madison** is seeking candidates to manage the computing facilities for the IceCube project. UW-Madison is responsible to the National Science Foundation and the IceCube Collaboration for maintenance and operations of the IceCube Neutrino Observatory, a kilometer-scale neutrino detector at the South Pole. The collaboration includes scientists from over thirty research institutions worldwide who collectively participate in studies of high-energy neutrinos from cosmic sources and a range of scientific topics in Astroparticle Physics.

The IceCube Computing Facilities Manager is responsible for computing facilities located within the Wisconsin IceCube Particle Astrophysics Center (WIPAC), other UW-Madison campus locations, and at the South Pole. The manager also has responsibility to the IceCube Collaboration to provide timely access to IceCube data and upgrades to computing systems.

The IceCube data center includes approximately 3 PB of disk storage, over 1500 CPUs, and various tape storage facilities, including a 1.2 PB HSM. Computing systems at the South Pole consist of ~200 servers in various configurations for data reduction and storage.

A master's degree or higher in Physics, Computer Science, Electrical Engineering, or related field will be considered, Ph.D. is preferred.

Highly qualified candidates will have at least five years of direct experience managing large computing facilities used in a collaborative scientific research environment.

Pay range is USD \$90,000 – \$130,000 depending on qualifications, plus excellent benefits.

To view the full Position Vacancy Listing (PVL), go to http://www.ohr.wisc.edu/pvl/pv_073267.html

Applicants should email their CV and cover letter referring to: PVL #73267 to hr@icecube.wisc.edu.

RUPRECHT-KARLS-
UNIVERSITÄT
HEIDELBERG



6 Junior Research Positions in Experimental, Theoretical and Astrophysics

The Department of Physics and Astronomy at Heidelberg University invites applications for 6 junior research group leaders in experimental or theoretical physics or astrophysics. The positions are open in the context of the **Heidelberg Graduate School of Fundamental Physics**, granted in the framework of the “Excellence Initiative” of the German Federal and State Governments. The areas of research in fundamental physics at Heidelberg University encompass particle physics and cosmology, astronomy and cosmic physics, quantum dynamics and complex quantum systems, complex classical systems, mathematical physics and environmental physics.

Applicants must hold a Ph.D. and have a strong international research record in one of the six research directions of the school, to complement existing expertise. Successful candidates will be supported in building up independent research groups including associated doctoral positions and significant startup funding for experimental groups. They are expected to supervise doctoral projects in their field and contribute to the Graduate School's teaching programme.

Heidelberg University is an equal opportunity, affirmative action employer and encourages applications from female scientists.

The positions are limited to 5 years. Applications including the usual professional documentation should be sent until **15th October 2012** to the Spokesperson of the Graduate School, **Prof. Dr. Markus Oberthaler, Heidelberg Graduate School of Fundamental Physics, Central Office, INF 226, 69120 Heidelberg, Germany.**



Thinking about the Future of Basic Science.

**IBS/RISP has openings for:
Accelerator Scientists/Engineers**

The Institute for Basic Science (IBS) was established by the Korean government in November 2011 with the goal to create a world-class research institute in the basic sciences. IBS/RISP is to develop scientific and technical expertise and capabilities for the construction of a rare isotope accelerator complex (Rare Isotope Science Project, RISP) for nuclear physics, and medical and material science and applications.

The IBS/RISP is seeking for qualified applicants to work for Rare Isotope Science Project (RISP) at its headquarters office in Daejeon, Republic of Korea. The positions are at the level of research fellow, and postdoctoral research associates and accelerator engineers. Persons with high-level research achievement, extensive experience in large scale accelerator facility construction are given higher priority. The starting date is as soon as possible.

The successful candidates will participate in the R&D and construction of accelerator systems for RISP.

If you have the appropriate skills and are looking for a diverse and interesting employment opportunity we encourage you to apply. IBS/RISP is an equal opportunity employer; all applicants will be considered on their merit. Salary and benefits will be decided upon negotiations with the Director of RISP and will become effective upon signing the contract.

Please send your application including CV and introduction to

Ms. Y.H. LEE, RISP Director's Office at the Institute for Basic Science, 70 Yuseong-daero 1689-gil Yuseong-gu, Daejeon, Korea, 305-811

or e-mail to leeyh@ibs.re.kr.

Applicants should arrange to have three letters of references sent to address or e-mail.

Application deadline is August 31, 2012.

Further information can be obtained by sending mail to leeyh@ibs.re.kr.

Deadline for applications: 31 August 2012

<http://risp.ibs.re.kr>



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European XFEL SEIZE THE CHANCE

European XFEL is a multi-national non-profit company that is currently building an X-ray free-electron laser facility that will open up new areas of scientific research. When this facility is completed in 2015, its ultrashort X-ray flashes and unique research opportunities will attract scientists from all over the world to conduct ground-breaking experiments. We are a rapidly growing team made of people from more than 20 countries. Join us now!

EXCITING OPPORTUNITIES

Find out more about our exciting opportunities for scientists, engineers and graduate students. Help develop X-ray instrumentation and other systems. Help create a research facility of superlatives that will provide X-rays of unique quality for cutting-edge research in physics, chemistry, the life sciences and materials science.

WORKING AT EUROPEAN XFEL

English is the working language. We offer salary and benefits similar to those of public service organisations in Germany, a free-of-charge company pension scheme, generous relocation package and support, international allowance for non-German candidates hired from abroad, training opportunities etc.

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Join our network of international research institutions, programmes and collaborations. Discuss problems and solutions with colleagues from all over the world.

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School of Physics and Astronomy

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As part of the second phase of the Scottish Universities Physics Alliance (SUPA), we are seeking to expand our activities by appointing outstanding researchers to six faculty positions: three at Professorship/ Readership level, and three at a Lecturership level. Applicants for the Lecturer positions should have a strong track record in publishing internationally leading research, and a clear vision of how their work would complement our existing experimental and theoretical research strengths. Applicants for the Chair/Reader positions should have, in addition, strong records of scientific leadership and a proven ability to secure major research-funding awards and to establish and sustain national and international collaborations.

Applications are welcomed from theoretical and experimental physicists in the broad areas of condensed matter physics and photonics (including biophotonics). Applications should include a covering letter stating the level of appointment being sought, a one-page summary of research achievements to date, a one-page statement of the applicant's vision for his/her research at St Andrews and a full curriculum vitae including a list of refereed publications together with contact details for three referees.

We will begin processing applications on Monday 17th September 2012 and so applications should be received by Friday 14th September 2012.

Please quote ref: SK2934

Closing date: 14 September 2012

We encourage applicants to apply online, but if you are unable to do this, please call +44 (0)1334 462571 for an application pack.

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University of St Andrews

The University is committed to equality of opportunity

www.st-andrews.ac.uk



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Every year IMT Institute for Advanced Studies Lucca invites highly motivated students to apply for its PhD programmes in a range of disciplines that offer great potential for real-world applications, such as computer, decision and systems sciences; image analysis; economics; management; and development of cultural heritage and political history.

Register for this free webinar to find out more about IMT Lucca, the opportunities that are available to its PhD students and how to apply.

Our free recruitment webinar is now available to view on demand



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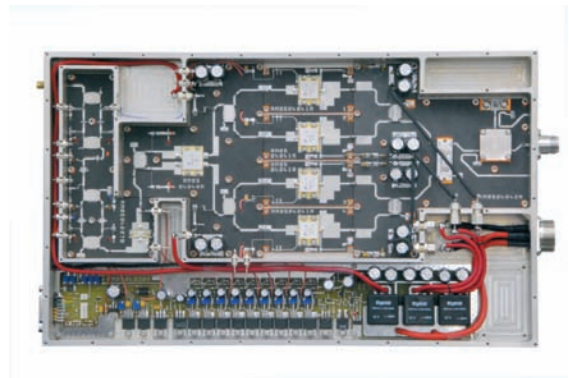
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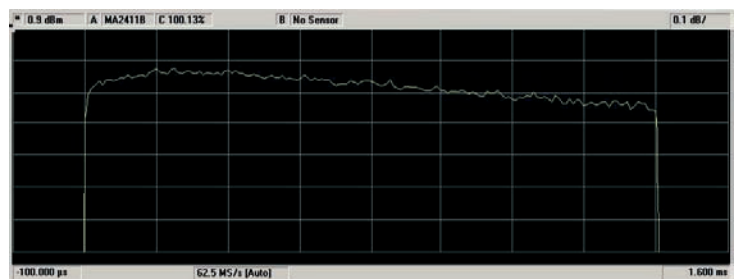
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