Particle-tracing simulations with COMSOL Multiphysics

The Particle Tracing Module extends the functionality of the COMSOL Multiphysics modeling environment to allow the computation of the trajectories of particles in fluids and charged particles in electromagnetic fields. The particles can be subjected to a wide variety of forces, such as electrical, drag and thermophoretic, as well as particle-particle and fluid-particle interactions. This webinar introduces particle tracing for applications such as erosion, etching, mixing, filtration, mass spectrometry, ion optics and beam physics. The webinar includes a demonstration and ends with a Q&A session.

POSTDOCTORAL FELLOWS

Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo, Japan

The ‘Kavli Institute for the Physics and Mathematics of the Universe’ (Kavli-IPMU) is an international research institute with English as its official language established in October 2007. The goal of the institute is to discover the fundamental laws of nature and to understand the universe from the synergistic perspectives of mathematics, statistics, theoretical and experimental physics, and astronomy. We are strongly interested in candidates with broad interests and a willingness to interact with people across disciplines.

We intend to offer more than a dozen postdocs with three-year terms. We seek trained physicists, willing to learn new experimental and analytical techniques, and ready to share in the excitement of building, operating and observing with a gravitational-wave observatory. Applications at the post-doctoral level will initially be for one-year with the possibility of renewal for up to two subsequent years.

Applications for post-doctoral research positions with LIGO Laboratory should indicate which LIGO site (Caltech, MIT, Hanford, or Livingston) is preferred by the applicant. Applications should be sent to HR@ligo.caltech.edu (Electronic Portable Document Format (PDF) submittals are preferred). Caltech and MIT are Affirmative Action/Equal Opportunity employers. Women, minorities, veterans, and disabled persons are encouraged to apply.

Applications should include curriculum vitae, list of publications (with refereed articles noted), and the names, addresses, email addresses and telephone numbers of three or more references. Applicants should request that three or more letters of recommendations be sent directly to HR@ligo.caltech.edu (Electronic Portable Document Format (PDF) submittals are preferred). Consideration of applications will begin December 1, 2015 and will continue until all positions have been filled.

Applications for post-doctoral research positions with LIGO Laboratory should indicate which LIGO site (Caltech, MIT, Hanford, or Livingston) is preferred by the applicant. Applications should be sent to HR@ligo.caltech.edu (Electronic Portable Document Format (PDF) submittals are preferred). Caltech and MIT are Affirmative Action/Equal Opportunity employers. Women, minorities, veterans, and disabled persons are encouraged to apply.

Further information can be found here: http://www.ipmu.jp/job-opportunities

For inquiries please contact application-inquiry@ipmu.jp
Cancer is a major social problem and it is the main cause of death between the ages 45-65 years. Radiotherapy plays an essential role in the treatment of cancer.

OMA addresses the challenges in research and training network.

The Optimization of Medical Accelerators (OMA) is the aim of a new European research and training network. Each researcher will benefit from a unique training setting that will take place in the fields of physics, computer science, industrial engineering, and industrial manufacturing.

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Scientist (f/m) Software Architect

DESY

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Requirements

• Graduate degree (Physics, Computer Science or similar fields)
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• Willingness to take responsibility

For further information please contact Mr Reinhard Bacher +49-40-8998-3392

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.

www.desy.de

Deutsches Elektronen-Synchrotron DESY
Human Resources Department | Code: EM120/2015
Notkestraße 85 | 22607 Hamburg | Germany | Phone: +49-40-8998-3392
Deadline for applications: 15 November 2015
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FACULTY POSITION IN THEORETICAL HIGH ENERGY PHYSICS

Purdue University

The Department of Physics and Astronomy at Purdue (www.physics.purdue.edu) seeks applications for a faculty position at the level of Assistant Professor in the field of theoretical high-energy physics. The areas of current interest in the Department include string theory and applications, phenomenology of and beyond the standard model, and theoretical cosmology. Candidates are required to have a doctoral degree in physics or related field and a documented record of research accomplishments.

Candidates are expected to develop a vigorous research program, supervise graduate students, and teach undergraduate and graduate level courses. Applicants should send a curriculum vitae, publication list, a brief statement of present and future research plans, a statement of teaching philosophy and arrange for three letters of recommendation. Electronic submission is preferred (www.physics.purdue.edu/searches/app/).

Questions regarding the position and search should be directed to either Martin Kruzenski (markru@purdue.edu) or Sergei Khlebnikov (skhelbi@purdue.edu). Applications completed by December 18, 2015 will be given full consideration, although the search will continue until the position is filled. A background check is required for employment in this position.

Purdue University is an EEO/AA employer. All individuals, including minorities, women, individuals with disabilities, and protected veterans are encouraged to apply.

PhD Scholarships within the International Max Planck Research School for Quantum Dynamics in Physics, Chemistry and Biology (IMPRS-QD)

The International Max Planck Research School for Quantum Dynamics in Physics, Chemistry and Biology (IMPRS-QD) is a graduate school offering a doctoral degree program in these disciplines. The IMPRS-QD is a joint initiative of the Max Planck Institute for Nuclear Physics (MPIK), the Heidelberg University, the German Cancer Research Center (DKFZ), the Max Planck Institute for Medical research (all in Heidelberg) and the Heppen Ion Beam Research Center (IBR) in Darmstadt.

Membership in the Heidelberg Graduate School of Fundamental Physics is envisaged. Further information may be found on the school’s website: http://www.impi-hd.mpg.de/imprs-qd/.

Applications of students from all countries are welcome. To be eligible for PhD studies at the University of Heidelberg, applicants should have a Master of Science degree (or equivalent). Applicants who do not have a Master thesis may be accepted if they can prove their ability to carry out independent research projects. International applicants whose mother-tongue is not English or German have to provide a proof of English proficiency. At equal level of qualification, candidates with disabilities are given preference. Women are encouraged to apply.

Interested students are asked to apply via web form at: http://www.impi-hd.mpg.de/imprs-qd/applications.html.

The application deadline is 21 November 2015.