

RECRUITMENT

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Massachusetts Institute of Technology

It takes everyone at MIT to be MIT.

Scientific Administrator

A research group of the Laboratory for Nuclear Science at MIT is currently leading an international collaboration of universities building a scientific detector for deployment on the International Space Station. The present phase of the work is ongoing at the European Center for Nuclear Research (CERN) in Geneva, Switzerland. The group is seeking a candidate to carry out physics and organizational responsibilities including participation in data taking and detector monitoring, accounts monitoring, maintaining communications with appropriate offices at CERN and MIT, as well as other duties in support of the efficient running of the MIT team. Skills necessary include interest in experimental physics, proficiency with computers, effective communication skills in English and proficiency in French.

Candidate must also be able to travel at short notice to Europe, U.S. and Asia and spend various durations of time at CERN, MIT, the Kennedy Space Center and the Johnson Space Center. Must be able to function well under time pressure in a highly technical environment.

Candidate must have at least a Ph.D. in physics.

Applicants should submit curriculum vitae and arrange for at least three letters of reference to be sent to: Kenneth Hewitt, 26-516, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139-4307

MIT is an equal opportunity/affirmative action employer. Applications from women, minorities, veterans, older workers, and individuals with disabilities are strongly encouraged.

<http://web.mit.edu>



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

Several postdoctoral research positions are available at the Laboratory for High Energy Physics of the Swiss Federal Institute of Technology in Lausanne (EPFL)

in the areas of detector R&D for scintillating fibre tracker with Silicon PMTs, and physics analysis of the LHCb data together with the responsibility to operate a CPU farm at EPFL, or to participate in the Silicon detector operation. We are actively working on Heavy Flavour Physics in the LHCb experiment at CERN, and also starting R&D in the area of FPGA-based readout electronics and precision tracking detectors. Applicants must have a PhD degree in high energy physics or a related field with relevant experience, and be less than 35 years old. The positions are available now and the initial appointment will be for one year, renewable up to a total of four years. Applications will be reviewed upon receipt until the positions are filled. Enquiries and applications, including CV and names of three references, should be sent via e-mail to our secretariat: Erika.Luthi@epfl.ch

Accelerators | Photon Science | Particle Physics

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PARTICLE PHYSICS.

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DESY

DESY is one of the world's leading accelerator centres for investigating the structure of matter. DESY develops, builds and operates large accelerator facilities for photon science and particle physics.

The project / the position

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

- Analysis of HERA data
- Participation in the LHC Experiments ATLAS and CMS
- Preparations of the International Linear Collider ILC (accelerator and experiments)

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

Requirements

- A Ph.D. completed within the last 4 years
- Application including a resume and the usual documents (curriculum vitae, list of publications and copies of university degree)
- Three letters of reference shall be arranged to be sent to the DESY Human Resources Department

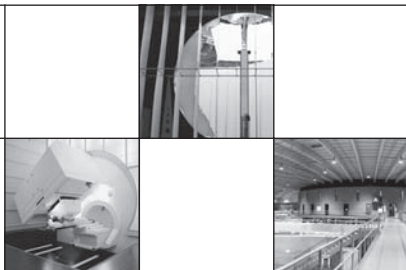
Salary and benefits are commensurate with those of public service organisations in Germany. Handicapped persons will be given preference to other equally qualified applicants. DESY operates flexible work schemes. DESY is an equal opportunity, affirmative action employer and encourages applications from women. There is an English-speaking 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 | Reference code: 13/2008
Notkestraße 85 | 22607 Hamburg | Germany
Phone: +49 40/8998-3392 | E-Mail: personal.abteilung@desy.de
Deadline for applications: 31 March 2008
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The Paul Scherrer Institut is a centre for multi-disciplinary research and one of the world's leading user laboratories. With its 1300 employees it belongs, as an autonomous institution, to the Swiss ETH domain and concentrates its activities on solid-state research and material sciences, elementary particle and astrophysics, energy and environmental research as well as on biology and medicine.

In the framework of the X-FEL project a 250 MeV injector linac will be built in 2009. We are presently specifying all the RF systems for this accelerator. Within our RF section we are looking for an

Engineer/Physicist

with experience of RF linear accelerators

Your tasks

- Participate in the specification and procurement of the RF components
- Coordinate within the RF section, the linac installation and system integration
- Actively contribute to the linac commissioning and optimization.
- Participate in the conceptual design of the main 6 GeV PSI-XFEL linac

Your profile

You hold a degree in electrical engineering, physics or equivalent, with good knowledge of the physical, technical and operational aspects of electron linacs. Experience with systems using normal conducting, pulsed RF is required. You should be able to work closely with a large number of colleagues. The successful candidate also has excellent communication skills and exhibits extraordinary team spirit.

We offer an exciting environment where leading edge accelerator science and technology is performed. The responsibility given to you will be in accordance with your experience.

We are looking forward to your application.

For further information please contact: Dr H. Fitze, ph +41 (0)56 310 3235, e-mail: hansruedi.fitze@psi.ch or Dr M. Pedrozzi, ph +41 (0)56 310 3242, e-mail: marco.pedrozzi@psi.ch.

Please send your application to: Paul Scherrer Institut, Human Resources, Mr. Thomas Erb, ref. code 8450, 5232 Villigen PSI, Switzerland or thomas.erb@psi.ch.

Further job opportunities: www.psi.ch



Department of Physics and Astronomy

Professor of Physics in Particle Physics

A Professorial appointment is available for a candidate who will provide world class scientific leadership at the forefront of the international particle physics programme, either in the field of Experimental Particle Physics and its supporting technologies, or in the area of Theoretical Particle Physics directly applicable to the experimental programme. The candidate will also play a key role, with colleagues, in developing and implementing departmental strategy in research and teaching. Should a candidate of appropriate stature and reputation present themselves, they will be appointed to the Kelvin Chair of Physics at the University.

For further information on the post please contact Professor Robin Leake, Pro-vice Principal, email R.Leake@admin.gla.ac.uk quoting Ref 13876/HRO/A1.

Lectureship in Particle Physics

£34,448 – £39,935

You will pursue an active research programme with international impact in particle physics, either in theory or experiment, broadening and strengthening the existing research portfolio in these areas in the department and the linkages between them (www.physics.gla.ac.uk/research/). Your research will focus on either theoretical work in lattice QCD or phenomenology of the Standard Model and beyond or on experimental work on detector development and phenomenology. There are extensive opportunities to collaborate with other theorists and experimentalists in Scotland under the auspices of the Scottish Universities Physics Alliance (www.supa.ac.uk/). You should be able to teach undergraduate physics, and possibly astronomy, at all levels and postgraduate particle physics.

Informal enquiries can be made to Professor Christine Davies, +44 (0)141 330 4710, e-mail: c.davies@physics.gla.ac.uk or to Professor Tony Doyle, +44 (0)141 330 5899, e-mail a.doyle@physics.gla.ac.uk quoting Ref 13912/HRO/A1.

To find out more, and to apply, go to physics-at-glasgow.co.uk

Closing date for both posts: 14 March 2008.



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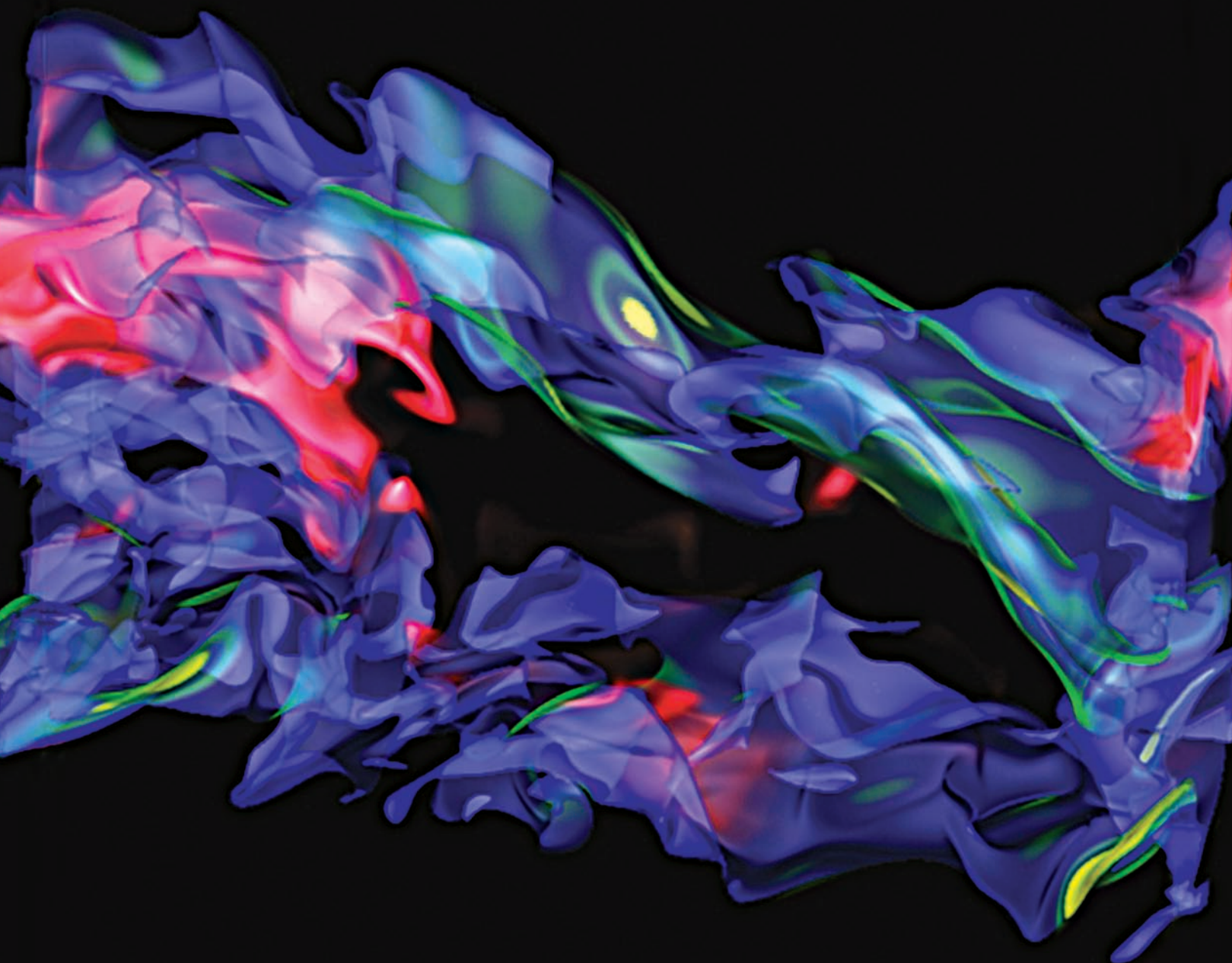
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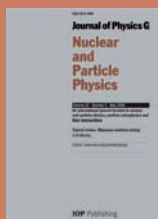
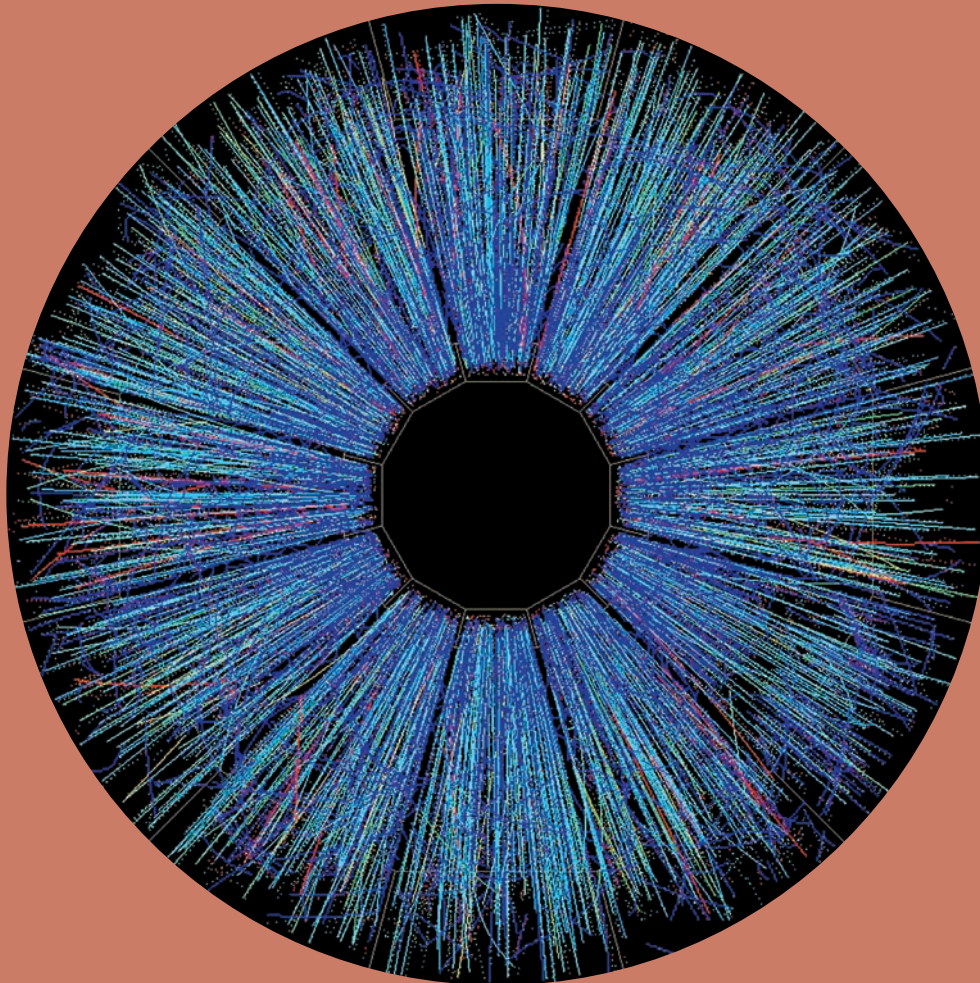
Yasuaki Kishimoto, Kyoto University, Japan

Editorial Board Member

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Visualization of stoichiometric mixture fraction, scalar dissipation rate, and OH radical mass fraction variables in a turbulent CO/H₂ jet flame
(image courtesy of **H Akiba** and **K-L Ma**, University of California, Davis, USA) **ER Hawkes**, **R Sankaran**, **J C Sutherland** and **J H Chen** 2005 *Journal of Physics: Conference Series* **16** 65–79.

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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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