

Recruitment

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Faculty Position in Experimental High-Energy Physics

at the Ecole polytechnique fédérale de Lausanne (EPFL)

The School of Basic Sciences of the Ecole Polytechnique Fédérale de Lausanne (EPFL) seeks to appoint a tenure-track assistant professor of experimental high-energy physics in the Institute of Physics.

The Laboratory for High-Energy Physics is strongly involved in the LHCb experiment at CERN's Large Hadron Collider from the time of its conception, and is currently making a major contribution to the detector upgrade, with a view to enhance data-taking capability to extend the science reach from 2021 onwards. The position offers the opportunity to capitalize on this investment while also developing ideas for the longer-term future, in an environment providing strong technical support in detector development.

A PhD degree in particle physics as well as a strong and growing track record in research and scientific leadership are required. The appointed professor is expected to initiate a creative experimental program, and engage in physics teaching at undergraduate and graduate levels.

Significant start-up resources, research budget and state-of-the-art research infrastructure are available. Salaries and benefits are internationally competitive.

Applications should include a motivation letter, a curriculum vitae with a list of research outputs, a statement of research (max. 3 pages) and teaching interests (max. 1 page), as well as the names and addresses (including e-mail) of at least three references.

Application files should be submitted in PDF format and uploaded by **December 15th, 2017** to

<https://facultyrecruiting.epfl.ch/position/6848513>

Enquiries may be addressed to:

Prof. Harald Brune

Chairman of the Search Committee

E-mail: iphysdirector@epfl.ch

For additional information, please consult www.epfl.ch, sb.epfl.ch, iphys.epfl.ch

EPFL is committed to increasing the diversity of its faculty, and strongly encourages women to apply.

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Natasha Clarke

natasha.clarke@iop.org

+44 (0)117 930 1864



The Laser Interferometer Gravitational-Wave Observatory (LIGO) has as its goal the development of gravitational wave physics and astronomy. The LIGO Laboratory is managed by Caltech and MIT, and is funded by the National Science Foundation. It operates observatory sites equipped with laser interferometric detectors at Hanford, Washington and Livingston, Louisiana, which recently made the first confirmed detection of gravitational waves. A vigorous LIGO Laboratory R&D program supports the development of enhancements to the LIGO detector as well as astrophysical data analysis, and development of future detectors and detector technologies.

The LIGO Laboratory anticipates having one or possibly more postdoctoral research positions at one or more of the LIGO sites – Caltech, MIT and at the two LIGO Observatories in Hanford, WA and Livingston, LA – beginning in Fall 2018. Hires will be made based on the availability of funding. Successful applicants will be involved in the operation of LIGO itself, analysis of LIGO data, both for diagnostic purposes and astrophysics searches, and/or the R&D program for future detector improvements. We seek candidates across a broad range of disciplines. Expertise related to astrophysics, modeling, data analysis, electronics, laser and quantum optics, vibration isolation and control systems is desirable. Most importantly, candidates should be broadly trained scientists, 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. Appointments at the post-doctoral level will initially be for one-year with the possibility of renewal for up to two subsequent years.

Caltech and MIT are Affirmative Action/Equal Opportunity Employers
Women, Minorities, Veterans, and Disabled Persons are encouraged to apply

More information about LIGO available at www.ligo.caltech.edu

Postdoctoral Research Positions LIGO Laboratory

Applications for postdoctoral research positions with LIGO Laboratory should indicate which of the LIGO sites (Caltech, MIT, Hanford, or Livingston), if any, are preferred by the applicant, and which (if any) are likely to be unworkable. 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. Please attach a cover letter describing past experience and current and future research interests. 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 15, 2017 and will continue until all positions have been filled.



TEXAS TECH UNIVERSITY

Department of Physics & Astronomy

The Department of Physics and Astronomy at Texas Tech University, as part of its strategic growth plan, invites applications for a tenure-track position in experimental particle physics at the assistant professor level; exceptional candidates at a more senior level may be considered.

The starting date is September 2018. The members of the experimental particle physics group at Texas Tech (Akchurin, Kunori, Lee, Volobouev, and Wigmans) actively participate in the CMS experiment at CERN and maintain a rigorous R&D program in advanced detector physics. In addition to the ongoing beyond Standard Model searches, we share significant responsibilities for the upgrade of the CMS calorimeters for the high luminosity LHC. The group enjoys strong infrastructure support: the Advanced Particle Detector Laboratory is well-suited for R&D and production of detectors based on scintillator and silicon systems, and the High Performance Computing Center allocates substantial resources in support of the group's analysis work. The university has recently been ranked in the Highest Research Activity category by the Carnegie Foundation.

We expect the new experimental faculty member to strengthen and complement the ongoing research in CMS, particularly in detector upgrade effort, or to initiate a new and significant research program in any area of experimental particle physics. Candidate must have a Ph.D. in physics and at least two years of post-doctoral experience,

possess an outstanding research record, and show promise of excellent teaching at both undergraduate and graduate levels. Candidate is expected to garner extramural funding to support his/her research. Service to the department, college, and university is also expected.

Applicants should submit a vita, list of publications, statement of research interests and plans, teaching philosophy, and contact information for at least three references. Applications should be submitted online jobs.texas-tech.edu using requisition ID 11830. Inquiries should be sent to Professor Nural Akchurin (nural.akchurin@ttu.edu). Applications will be reviewed starting December 1st 2017 and will continue until the position is filled.

As an Equal Employment Opportunity / Affirmative Action employer, Texas Tech University is dedicated to the goal of building a culturally diverse faculty committed to teaching and working in a multicultural environment. We actively encourage applications from all those who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community at Texas Tech University. The university does not discriminate on the basis of an applicant's race, ethnicity, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, genetic information or status as a protected veteran. Texas Tech welcomes consideration of dual career and professional couple accommodations.



Institute of Physics ASCR, v. v. i., Na Slovance 2, 182 21 Praha 8

info@eli-beams.eu | www.eli-beams.eu

The ELI (Extreme Light Infrastructure) Project is an integral part of the European plan to build the next generation of large research facilities. ELI-Beamlines is a cutting-edge laser facility that is currently being constructed in Dolní Břežany (on the southern border of Prague); its commissioning is scheduled for end of 2017. ELI will be delivering ultra-short, ultra-intense laser pulses lasting typically a few tens of femtoseconds (up to 150 fs) with peak power projected to reach 10 PW. It will make available time synchronized laser beams over a wide range of intensities for multi-disciplinary applications in physics, medicine, biology, material science etc. The high laser electric field intensities of the laser pulse will be also used for generating secondary sources of e- and p+ and high-energy photons.

The research group RP3 is expanding and recruiting physicists in relevant fields for the design/development of the facility and for preparation of future experimental activities.

In our team we therefore have the following position available:

Junior/Senior Engineer/Experimental Physicist (ELI-RP3 ELIMAIA)

The candidate is supposed to work predominantly on the following topics:

- Implementation of various optical devices (mirrors, focusing optics, cameras, microscope objectives, and laser diagnostics) in vacuum chambers where initial commissioning RP3 experiments (particle acceleration by lasers) will be carried out with 100-TW class lasers (and later PW-class).
- Operation of laser alignment and diagnostic systems, including data acquisition and transfer to local control systems

Requirements:

- University degree in optical engineering or experimental physics
- Experience in high power laser laboratories
- Engineering skills concerning alignment of optics and targets, as well as vacuum and electrical installations.
- Knowledge in the use of codes for optical simulations is a plus.
- Fluent in English for speaking and writing; knowledge of Czech is a plus
- Ability to work in a team as well as independently

Job conditions:

- The opportunity to participate in this unique scientific project
- Career growth, professional education
- 5 weeks of holiday and other employee benefits
- Pleasant work environment

Applications, containing CV, cover letter, contacts of references, and any other material the candidate considers relevant, should be sent to Mrs. Jana Ženíšková (jana.zeniskova@eli-beams.eu, +420 601 560 322). Please include the following text in your cover letter; to allow us to process your personal details:

I agree that, according to the decree 101/2000 coll. (Czech Republic), my personal details sent to FZU AVCR, v.v.i, Na Slovance 2, 18221 Praha 8, Czech Republic can be used for the purpose of obtaining employment and management of database of employment candidates. This permission is given for the period of one year and can be at any time withdrawn by giving a notice in writing.

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The place for your next career step?

People at CERN are driven by a shared goal, a single purpose. They want to achieve the impossible, to do what's never been done before. Everyone here strives to be the best they can be, true specialists and industry "firsts" are created regularly –not just in the world of physics. The engineering and technical skills needed to make the experiments succeed are as world-class as the science behind them.

If you're looking for a new challenge in engineering & technical fields, check out the diverse opportunities CERN has to offer on:
cern.ch/jobs. Take part!



HR
Human Resources