

Recruitment

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RADIATION PROTECTION.

DESY, Hamburg location, is seeking: Physicist (f/m/diverse) in radiation protection

DESY

DESY is one of the world's leading research centres for photon science, particle and astroparticle physics as well as accelerator physics.

The radiation protection group is responsible for various tasks in the field of radiation protection at DESY and XFEL. These include simulations and test measurements of new accelerator technologies such as FELs, plasma accelerators and high-power lasers as well as simulations in the field of radiation protection at conventional accelerators. Also complex measurement systems are developed, built and operated by the radiation protection group.

The position

- Simulations and measurements of the interaction of the FEL beam with matter
- Simulations and measurements in the field of plasma accelerators and high-power lasers
- Simulations in the field of radiation protection at conventional accelerators
- New and advanced development of hardware and software for complex measurement systems

Requirements

- University degree in physics or equivalent subject knowledge, skills and experience
- Profound knowledge in radiation protection, especially in basic radiation protection physics as well as in practical radiation protection
- Experience in handling simulation programs for radiation protection, plasma physics, thermo-dynamics and material science
- Experience in planning of plasma accelerators and high-power lasers with regard to radiation protection
- Very good knowledge of English

For further information please contact Dr. Norbert Tesch +49-40-8998-4915, norbert.tesch@desy.de.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. 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. Vacant positions at DESY are in general open to part-time-work. During each application procedure DESY will assess whether the post can be filled with part-time employees.

We are looking forward to your application quoting the reference code preferably via our electronic application System: Online-Application

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: MMA061/2018

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

Deadline for applications: 18 November 2018

www.desy.de



Senior Physicist/Physicist – MR

Elekta empowers talented individuals to improve, prolong and even contribute to saving patient lives. While we work to provide intelligent and resource-efficient solutions that offer confidence to healthcare providers and patients, among our most satisfying accomplishments is the ongoing personal development of our staff. It can be a rewarding and empowering experience working at the forefront of pioneering medical technology.

To support the growth of the Elekta business and our constant innovation in patient care, the Global Engineering business area has an exciting opportunity for a Physicist, with special expertise in Magnetic Resonance (MR) imaging.

The R&D 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, accelerator waveguide testing and tuning, optics, physics of detectors and imaging systems (both X-ray and MR-based). Candidates for this position should be capable of contributing in several of these areas, but particularly regarding MR technology, test methods and quality assurance tools for MR-Image-guided Radiation Therapy (RT).

Successful applicants will contribute to the evolution of MR-RT systems by providing direct input to new developments and will be involved in both computational and experimental activities. The position will involve also the design and evaluation of measurement techniques and tools for the Quality Assurance and performance assessment of MRI-guided linear accelerator systems for RT, in order to satisfy business requirements. In this role, the successful applicant will be expected to provide technical advice to other areas of the business for issues relating to MRI technology, as well as to transfer knowledge and develop expertise internally.

Projects will often offer interaction with Research Hospitals and other Institutions and commercial organisations inside and outside of the UK, therefore exceptional written and spoken communication skills are required. Good planning and leadership skills, as well as the ability to work to tight deadlines and within a successful team, are also essential for this role.

Candidates should have at least a degree in Physics/Engineering, MRI Physics, Medical Physics, Medical Imaging or closely related discipline, with evidence of significant experience in the MRI field, acquired either in a research, industrial or clinical environment. It is desirable that they are educated to MSc or PhD level and have experience of radiotherapy systems. Familiarity with MRI system technology, hardware and software, and some general knowledge of MR pulse sequence applications and MR image processing is required. Candidates must also be aware of safety requirements in an MRI environment.

Additional Information

When applying for this role, please think carefully about the job requirements and ensure that your CV reflects the required skills we need for this role, please ensure you are eligible to work in Europe.

www.elekta.com/careers



Postdoctoral Research Positions LIGO Laboratory

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 2019. 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.

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) and information provided is subject to the LIGO GDPR Policy – <https://www.ligo.caltech.edu/page/gdpr-policy>.

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, 2018 and will continue until all positions have been filled.

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



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 as a cutting edge laser facility is currently being constructed near Prague, Czech Republic. ELI will be delivering ultra-short, ultra-intense laser pulses lasting typically a few tens of femtoseconds 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 intensities of the laser pulse will be also used for generating secondary sources of e- and p+ and high-energy photons. Our research groups are expanding and recruiting physicists and engineers.

In our team we therefore have the following positions available:

- Junior Scientist
- Senior Scientist
- Laser Physicist
- Junior Engineer
- Senior Engineer
- Vacuum Technician
- Mechanical Designer
- Control System Specialist
- Safety Engineer
- Optical Engineer
- X-ray Scientist
- Opto-mechanics

For more information see our website www.eli-beams.eu and send your application, please.

PROFESSOR

ULTRAFAST SCIENCE (AP 18-08)

INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE (tenure-track position)

CONTEXT AND SUMMARY

The Institut national de la recherche scientifique (INRS) is the only academic institution in Québec (Canada) dedicated exclusively to research and training at the graduate level. The influence of our faculty, researchers, and students extends worldwide. In partnership with the scientific community and the private sector, we are proud to contribute to societal development through our discoveries and through the training of young scientists.

INRS – Énergie Matériaux Télécommunications (EMT) Research Centre would like to hire a new faculty in the area of **Ultrafast Science** aiming at the transfer of knowledge and technologies to sectors such as photonics, advanced materials, energy, and healthcare. The areas of expertise of interest include: high-power femtosecond lasers for probing, imaging, and controlling the dynamics of ultrafast phenomena in matter, applied to atomic and molecular optical physics, and condensed matter physics. Other related areas may also be considered.

The Centre hosts the unique major research Infrastructure of Nanostructures and Femtoscience (<http://lmn.emt.inrs.ca/EN/inf.htm>), which comprises the Advanced Laser Light Source, the Laboratory of Micro and Nanofabrication, and the Infrastructure for Advanced Imaging.

This new position is intended to build a critical mass of expertise around a major \$13.9M addition, the Advanced infrastructure for dynamic imaging and control of complex systems – ALLS+, awarded by the Canada Foundation for Innovation (CFI) in the 2016 competition. ALLS+ includes high average power Ytterbium lasers to derive a continuum of sources from the THz to the X-ray spectral range. Combined with “Angular Resolved Photoelectron Spectroscopy” (ARPES) and other techniques, these sources will be used to investigate ultrafast phenomena. ALLS+ adds to the current ALLS facility. The new faculty will work in an environment where about forty professors-researchers undertake leading-edge research and training in diverse areas of sustainable energy, advanced materials, ultrafast photonics, telecommunication systems and nanobiotechnology.

MAIN DUTIES AND RESPONSIBILITIES

- Develop an original and innovative program, capitalizing on the ALLS infrastructure.
- Secure external funding from a variety of granting agencies, also involving various partners from the public and private sectors whenever needed/pertinent.
- Establish collaborations with research teams already in place, while developing or maintaining partnerships with groups outside the EMT research center. The ability to develop partnerships with the private sector is particularly valuable.
- Participate in teaching and training at the graduate level (both M.Sc. and Ph.D. students), as well as supervising post-doctoral fellows and research personnel.

REQUIREMENTS

- A doctoral degree in a relevant discipline (physics, chemistry, engineering, materials science).
- An outstanding record of research accomplishments that will enable her/him to successfully develop a strong independent research program.
- Academic and technical expertise that are complementary to the existing faculty at EMT (<http://www.emt.inrs.ca/es-professeurs/mosaïque/6>)
- The aptitude for teaching and supervising graduate students and other trainees.
- The ability to work in a multidisciplinary team and within research networks.
- The ability to collaborate with industrial partners.

WORKING LANGUAGE

French is the official language at INRS. Fluency in English is required. Candidates whose native language is not French are encouraged to apply. The Centre will provide them with all the resources necessary to facilitate their learning of the French language.

WORKPLACE

Institut national de la recherche scientifique (INRS)

Centre Énergie Matériaux Télécommunications

1650, boulevard Lionel-Boulet, Varennes (Québec) J3X 1S2 CANADA

Varennes is located on the South Shore of Montreal.

SALARY

Salary and benefits are in accordance with the current collective agreement at INRS.

HOW TO APPLY

Interested applicants should submit their application including a complete curriculum vitae, a copy of their three most significant publications, a three page summary of their research interests, a two page statement of teaching experience and philosophy, and the names and contact information of three referees, before **November 15th 2018** indicating position number AP 18-08 by e-mail at concours@emt.inrs.ca or by mail to:

Director

Institut national de la recherche scientifique (INRS)

Centre Énergie Matériaux Télécommunications

1650, boulevard Lionel-Boulet, Varennes (Québec) J3X 1S2 CANADA

concours@emt.inrs.ca

INRS subscribes to an equal access employment program and an equity employment program. The Institute invites women, visible minorities, ethnic minorities, natives and people with disabilities to apply. Priority will be given to candidates with Canadian citizenship or permanent resident.

WWW.INRS.CA

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