

Recruitment

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CERN's HR Talent Acquisition team wishes you
a very happy Christmas and all the best for the new year!

A new year which may be made of new career plans and aspirations?

As a student, a graduate, just starting your career or an experienced professional, whatever your field of expertise, you may find your next opportunity here at CERN, a place like nowhere else on earth.

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Facility for Antiproton and Ion Research



Helmholtzzentrum für Schwerionenforschung GmbH

GSI Helmholtzzentrum für Schwerionenforschung in Darmstadt operates one of the leading particle accelerators for science. In the next few years, the new FAIR (Facility for Antiproton and Ion Research) one of the world's largest research projects, will be built in international cooperation. GSI and FAIR offer the opportunity to work together in this international environment with a team of employees committed to ensuring each day to conduct world-class science.

Within the department „Accelerator Operations/Linac RF“ (Linear Accelerator Radiofrequency) we invite now qualified candidates to apply for the following position

Graduate Engineer or Master of Science (m/f)
Electrical Engineering / RF Technology or High Voltage Technology (TU/FH)
Ref. No. 6630-18.169

or comparable qualification.

Your tasks within the framework of the FAIR project and the operation as well as modernization of the existing high-frequency systems of GSI's heavy-ion linear accelerators are:

- Operation, maintenance and modernization of RF amplifier systems of up to 2 MW power (semiconductor and tube amplifier stages in pulse and continuous wave (cw) operation at 36 MHz up to 325 MHz) and the corresponding high voltage power supplies up to 24 kV as well as their sub-components for control and feedback control systems
- Support and further development of the interfaces between the RF components and the higher-level control and monitoring units of the accelerator systems
- System integration and documentation

Your qualification:

- Degree (Graduate or Master) in electrical engineering (or comparable)
- Knowledge in RF amplifier technology or high voltage technology
- Analogue and digital circuit development using common tools (Eagle, KiCAD, etc.)
- Good knowledge of German and English spoken and written
- Independently acting in smaller subprojects and readiness to work in new fields of activity

The ability to work in a team and a solution-oriented way of working are required. We offer a position with a high degree of self-reliance within the department of Linac RF.

We offer a permanent position. The salary is equivalent to that for public employees as specified in the collective agreement for public employees (TVöD Bund).

FAIR supports the vocational development of women. Therefore women are especially encouraged to apply for the position.

Handicapped persons will be preferentially considered when equally qualified.

Further information about FAIR and GSI is available at www.gsi.de and www.fair-center.eu.

If you find this position interesting and challenging and would like to work in an exceptional, international, strongly technical environment, please send your full application documents, including the desired salary, with information of your earliest possible starting date and the **reference number** above to the following address by **December, 28th, 2018** to

GSI Helmholtzzentrum für Schwerionenforschung GmbH

Abteilung Personal

Planckstraße 1

64291 Darmstadt

Germany

or by email to: **bewerbung@gsi.de**



**Laser Interferometer
Gravitational-Wave Observatory**
Supported by the National Science Foundation
Operated by Caltech and MIT

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.