



French-German Research Institute of Saint-Louis

The **French-German Research Institute of Saint-Louis (ISL)** situated in the border triangle of Germany, France and Switzerland is an internationally renowned research institute belonging to a global industrial and economic network. The spectrum of our core activities comprises a variety of topics: aerodynamics, energetic and advanced materials, lasers and electromagnetic technologies, protection, security and situational awareness. Our activities are related to both basic and applied research.

www.isl.eu

For immediate placement, we are currently looking for a

Research scientist (m/f/d) in the field of terminal effects of laser beam sources

The RIM group of ISL focuses on:

- ◆ Experimental studies and modeling of laser-matter-interactions (OCM, CRAM)
- ◆ Studies on terahertz technology for spectroscopy and detection applications
- ◆ Studies on nonlinear optical properties of new materials

Your new tasks and responsibilities – challenging and future-oriented

- ◆ Implementation of research projects and publication of results in the field of laser-matter interaction
- ◆ Planning and coordination of research work
- ◆ Logging and documentation of testing procedures and results
- ◆ Result analysis, synthesis, participation in the drafting of test reports
- ◆ Ensuring traceability of results
- ◆ Further development of experimental setups
- ◆ Development and further development of theoretical models
- ◆ Establishing and developing partnerships with industry, universities, and research centers, acquisition of research contracts
- ◆ Writing publications, articles, scientific reports as well as participating in scientific discussions, colloquia, and seminars
- ◆ Updating technical know-how

Your qualifications – solid and appropriate

- ◆ Successfully completed studies and a PhD in physics with a focus on optics and laser technology
- ◆ Experience in the field of laser-matter interaction or material processing with lasers
- ◆ Deep knowledge of the effect of laser radiation on military targets (composite materials, detectors, semiconductors, metallic artillery shells)
- ◆ Deep knowledge in the following fields:
 - Heat conduction
 - Laser sources
 - Optical and electrical measurement technology
 - Nonlinear optics
- ◆ Ability to communicate and to work effectively as part of a team, ability to take initiatives and to exercise flexibility, good organisational skills
- ◆ Very good command of English. A good command of French and/or German would be an advantage

Our offer

- ◆ You will be working in a top-level research institute in the centre of Europe
- ◆ The region of the border triangle of France, Germany and Switzerland between Black Forest, Vosges and Swiss Jura mountains offers a high quality of life. You can settle in one of the three countries
- ◆ ISL offers attractive remunerations, flexible work arrangements and many opportunities for vocational training, a cafeteria, parking area with charging station, occupational-medical care, health mutual, parental leave or part-time models, as well as a wide range of sport activities

We propose to employ you on a fixed-term contract for five years with possibility of renewal, or of permanent contract.

If this challenging description fits your profile, we are looking forward to receiving your complete application documents (cover letter, resume in tabular form, school-leaving certificate, degree certificate, job references, evaluations and any other relevant certificates) mentioning the keyword: "RIM-S".

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