



**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](http://www.isl.eu)

For immediate placement, we are currently looking for a

## Research Engineer in high power laser systems (m/f/d)

### Field of activity

The group RIM (Radiation Interaction with Matter) investigates the terminal effects of laser weapons and develops related protection devices. The group has strong technical and theoretical expertise in military optronics, especially in the field of laser-matter interaction.

### Your new tasks and responsibilities – challenging and future-oriented

- ◆ Develop experimental setups with high power laser systems
- ◆ Characterise spatial and flow properties of laser beams
- ◆ Implement radiation metrology tools
- ◆ Investigate the vulnerability of materials and components to laser attacks
- ◆ Analyse experimental data
- ◆ Communication and exploitation of research works
- ◆ Provide preventive maintenance and service for laboratory tools
- ◆ Occasional supervision of technical staff and interns

### Your qualifications – solid and appropriate

- ◆ Master's engineering degree or equivalent in photonics or solid-state physics
- ◆ Use precise scientific methods, show curiosity, able to focus on the big picture. Apart from your academic knowledge in physics, optics and materials science in the field of optics, you are able to use instrumental informatics (LabVIEW for instrument control)
- ◆ As a successful team player you possess good communication skills and have a good command of French and/or German
- ◆ Knowledge in the following areas is required:
  - Lasers and their components, specific materials in the field of optics
  - Laser safety
  - Optics and/or multiphysics simulation tools (Zemax, Comsol)
  - Spectroscopy and thermal imaging
  - Military optronics

### Our offer

- ◆ Fixed-term contract of 5 years, possibility of conversion to permanent contract
- ◆ Attractive remuneration, flexible working time and balanced working-private life
- ◆ Various possibilities of advanced training
- ◆ An international and modern working environment with about 400 colleagues
- ◆ Career development opportunities
- ◆ The position is open to people with disabilities

**If this challenging description fits your profile, we are looking forward to receiving your complete application (letter of motivation, curriculum vitae in tabular form, school certificates, university degrees with detailed examinations, work references and other relevant documents), mentioning the following keyword: "RIM-I".**

French-German Research Institute of Saint-Louis  
Mrs. Viviane WEIHS  
5 rue du Général Cassagnou  
BP 70034  
68301 SAINT LOUIS CEDEX, France  
Phone: +33 (0)3 89 69 51 31  
[humanresources@isl.eu](mailto:humanresources@isl.eu)