



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/Post-Doc in aerodynamics/hypersonics (m/f/d)

in the ATD (AeroThermoDynamics) group.

Your new tasks and responsibilities – challenging and future-oriented

In your new position you will :

- ◆ Work on the next generation of advanced ballistic and aerodynamic effectors like projectiles, missiles, rockets, glide bodies or drones/UAVs
- ◆ Supervise and conduct theoretical and experimental aerothermodynamic studies for subsonic, transonic, supersonic and/or hypersonic flight conditions
- ◆ Research in scientific literature, patents, current practices and applications, benchmarking
- ◆ Analyse, validate and track the progress of research results
- ◆ Manage and deliver on research contracts (acquiring, planning and preparing contracts, managing research activities) and direct test campaigns
- ◆ Maintain and expand the scientific network with academia, research institutes, defence industry, military test sites and end-users in your domain
- ◆ Further adapt and enhance our numerical tools (CFD) and experimental installations (wind and shock tunnels with associated test setups)
- ◆ Specify and take part in the design of models to be used in these facilities
- ◆ Document, publish and present scientific results on internal and external events (with clients and partners, in congresses, fairs, in specialised publications and working groups)
- ◆ Mentor and supervise interns, bachelor, master and doctoral students
- ◆ Support the team leader in drafting updates to the strategic scientific roadmap, milestones and planned scientific investments

Your qualifications – solid and appropriate

- ◆ PhD in aerospace, fluid mechanics, gas dynamics, aerodynamics or thermodynamics
- ◆ Deep knowledge in the following fields is required:
 - Dynamics of gases/aerodynamics/mechanics of fluids/thermodynamics
 - CFD
 - Experimental measuring techniques for wind tunnels or fluid dynamics
- ◆ Additional knowledge in related fields like FEM, multi-physics simulation or combustion processes could be an asset
- ◆ Good communication skills: You like to work in a team, take initiatives, are a good organizer
- ◆ A good command of French and/or German would be an advantage. Ability to write easily scientific articles in English and German/French

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.

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 « ATD-S ».

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