



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

Position, Navigation and Timing Research Scientist (all genders) as **Group Leader** for the **STC** group (Sensors, Telemetry, Communication)

This scientific group carries out research on the following subjects:

- Radio and inertial navigation and alternative PNT (Positioning, Navigation, Timing) especially for missions under jamming and spoofing (GNSS-denied and contested environment)
- Antennas, especially electronically guided antennas (CRPA), conform/miniaturised antennas, data-links
- Passive microwave seekers and antenna measurement technology
- Measures and designs for signature reduction
- Shock-hardened sensors, electronics

Key responsibilities

Management and development of the group and of the affiliated laboratories:

- ◆ Strategic planning (road-mapping, benchmarking) and direction of research activities, cooperation to the division's "smart ammunition" strategy
- ◆ Scientific and disciplinary managing of a research team with about 20 staff members
- ◆ Development and management of partnerships with universities, research institutes, industry, defence proving grounds and final users
- ◆ Active participation in specialised technical groups on European (EDA CapTech), international (NATO) and national levels
- ◆ Cooperation in international consortia (EU, EDA) to acquire and carry out third party contracts
- ◆ Operational planning and carrying out of your own research projects and coordination of testing campaigns
- ◆ Planning of resources in cooperation with other teams, internal reporting
- ◆ Documentation, publication and presentation of scientific results on internal and external events (with clients and partners, in congresses, fairs and in specialised publications)

Your qualifications – solid and appropriate

- ◆ PhD in electrical engineering, communication, computer science or any comparable PhD
- ◆ You have work experience in one or more of the following subjects: Localisation and navigation systems, electronic jamming and spoofing, steerable antennas, data-links or radar
- ◆ You worked formerly in the applied research or with the industry. You enjoy conducting research work both on the experimental and the theoretical / numerical levels
- ◆ You are well connected within the scientific community, you enjoy presenting your team's research and development results, especially in publications and presentations. You are experienced in the supervision of scientific staff, PhD students and interns
- ◆ You have a deep work experience in the methodical project management, you are interested in acquiring new customers and networking
- ◆ Your working approach is customer-driven, your communication and organisation skills are excellent
- ◆ Deep knowledge in the following fields:
 - o Python (Pandas, Numpy, Scipy, PyTorch, Keras)
 - o MATLAB, Git. Following skills would be an advantage ADS, HFSS, CST
- ◆ You follow with high interest the new military trends, especially regarding electronic and navigation warfare
- ◆ Very good command of English. 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, 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 « Chef STC-S »**.

The position is open to individuals with disabilities.

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