



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

We are looking for an

Embedded System Software Engineer (m/f/d)

to work in our scientific group **STC (Sensors, Telemetry and Communication)**

The group STC works on the development of miniaturised sensor and high-frequency electronics for free flight data transmission of missiles with special array architectures for interference-free reception of GNSS-signals (anti-jamming).

Your new tasks and responsibilities – challenging and future-oriented

- ◆ In Software and Programming:
 - Development, design and programming of Embedded Systems (ARM) for real-time data processing (C/C++)
 - Development and implementation of signal processing algorithms (digital filter, FFT, error correction procedures, etc.) for FPGAs (Verilog, VHDL)
- ◆ Digital technologies:
 - Development, planning and implementation of digital circuits with connection to different sensors (inertial sensors, GNSS, magnetic field, temperature, pressure, etc.)
 - Development of the required test and verification protocols, as well as measurement methods to check the circuits and their proper function

Your qualifications – solid and appropriate

- ◆ Degree in electrical engineering, computer science, telecommunications or similar discipline
- ◆ Advanced skills in C/C++, Python, Verilog, VHDL
- ◆ Experience in dealing with CAD- Software (e.g. Altium, Eagle, PSpice, etc.) programming environments (e.g. Qt, VScode, Vivado, Vitis, etc.)
- ◆ Experience with digital circuit design and embedded systems
- ◆ Basics of antenna technology/telecommunications
- ◆ Ability to communicate, to work efficiently as part of a team and to enter into interdisciplinary cooperation. You are an effective organiser, easily adapting to new situations
- ◆ Excellent in English; basic command of German and French would be an advantage

Our offer

- ◆ Fixed-term contract of 3 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: "STC-I".

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