



**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 an

## Research scientist in the field of guidance for innovative concepts of long-range guided projectiles and for cooperative guidance strategies (m/f)

The main task will consist in conducting research and development in advanced guidance laws for long-range and precision-guided projectile concepts as well as swarm concepts.

### Your tasks – challenging and innovative

- ◆ General bibliographical research on existing guidance laws for guided projectiles (mid-course and terminal guidance)
- ◆ Adaptation of existing guidance laws or development of new guidance laws for long-range and precision-guided projectiles
- ◆ Adaptation of existing cooperative guidance strategies or development of new cooperative guidance strategies for a swarm of guided projectiles (multi-platform UGV, UAV cooperation framework)
- ◆ Contribution to system simulation activities (verification and validation of GNC loops)
- ◆ Supervision of the work conducted by the engineer in charge of system simulation
- ◆ Acquisition and supervision of PhD and Master students
- ◆ Dissemination of research work in scientific conferences and peer-reviewed journals

### Your profile – analytical and practical-minded

- ◆ Engineering or University Master's degree + PhD degree in: automation, control systems, aerospace engineering, or similar
- ◆ Professional experience is not required, but would be considered as an asset
- ◆ Solid knowledge in dynamical systems and control systems (preferably optimal control methods)
- ◆ Some knowledge of flight dynamics and aerodynamics of projectiles/missiles, experience with guidance laws implementation would be an advantage
- ◆ Excellent knowledge of MATLAB/Simulink
- ◆ Very good analytical and organizational skills, thoroughness, ability to work independently as well as part of a team, good communication skills
- ◆ Very good command of English. Knowledge of French or German is not required, but would be appreciated

### Our offer

We propose to employ you on a fixed-term contract for five years with possibility of renewal. We offer attractive remuneration, flexible work arrangements and many opportunities for vocational training und further development.

**If this challenging description fits your profile, we are looking forward to receiving your complete application, mentioning the following keyword: "GNC-S".**

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