



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 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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