



**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

## Researcher in the field of computer vision and related algorithms (m/f/d)

### Your new tasks and responsibilities - challenging and future-oriented

- ◆ You carry out research work on algorithms for application in embedded visionics
- ◆ You work on algorithms for real-time optimization and on the joint operation of two different geometric models (projective and epipolar geometry)
- ◆ You use and evaluate a hybrid algorithm (with homography and fundamental matrix) in operative conditions
- ◆ You work on determining the scale factor for monocular stereo vision for further application in ISL projects
- ◆ You study methods for parallax correction in change detection through vision methods
- ◆ You take part in supervising PhDs and internships (Master or engineer) related to future scientific topics or which give direct support to our current research topics
- ◆ You are actively involved in technical and scientific communications related to current and upcoming research work
- ◆ You take an active part in business travels related to scientific events or test campaigns

### Your qualifications – solid and appropriate

- ◆ You have an PhD in computer vision
- ◆ First professional experience in scientific research in the field of computer vision would be an advantage
- ◆ You have perfect command of projective and epipolar geometry as well as of mathematical tools used for this research work (linear algebra and matrix calculation / quaternions, optimisation methods, geometrical optics etc.)
- ◆ Good communication skills: You like to work in a team, take initiatives, are a good organizer adapting easily to new situations
- ◆ Very good command of English. A good command of French and/or German would be an advantage

### Our offer

- ◆ Fixed-term contract of 5 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: "APV-S".**

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