



**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 a

## Research scientist in the field of crystallization processes of explosives (m/f/d)

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

- ◆ Develop, implement and improve batch crystallization processes for explosive particles (define the conditions to control defects in order to adjust sensitivity levels)
- ◆ Develop and implement processes / equipment for continuous production of explosive particles
- ◆ Develop and implement innovative technologies for in situ observation of the quality of crystals and interfaces during crystal growth
- ◆ Characterize the physico-chemical properties of crystals and their surfaces
- ◆ Manufacture explosive formulations using binders and characterize their mechanical properties
- ◆ Contribute to the preparation of detononic tests to assess the performances of the produced explosives
- ◆ Take part in the processes intended to guarantee the pyrotechnical safety of these activities
- ◆ Show great commitment in developing contract activities with industrial companies in the field of armament

### Your qualifications – solid and appropriate

- ◆ Hold a PhD in chemistry, process chemistry or chemical engineering
- ◆ A first work experience is not required but will be considered as an advantage
- ◆ Knowledge in the following areas is required:
  - Process engineering
  - Physico-chemical characterization
- ◆ Good communication skills. You like to work in a team and to take the initiative. You are an effective organizer, and you adapt easily to new situations.
- ◆ A good command of English

### 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: “PCD-S”.**

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