

## Systems Engineer – Signal Processing & Sensor Algorithms

Radar & Sensor Technologies | Data Fusion & Modelling | Join the ELLEON Collective

*Are you passionate about DeepTech and excited by the challenge of developing innovative technical solutions? At **ELLEON**, we are growing our team of Systems Engineers to drive the future of high-precision industries.*

*If you thrive in a dynamic environment where creativity, collaboration, and engineering excellence meet — we want to hear from you!*

### Why Join ELLEON?

At **ELLEON**, we are not just engineering experts — we are a collective shaping the next generation of technologies across critical domains like radar, sonar, and sensor fusion. Our engineers work at the intersection of applied mathematics, software engineering, and innovation, helping design the future of security and mobility

As part of **The Elleon Collective**, you will connect with a network of elite engineers in Switzerland, access exclusive development programs, and contribute to high-value projects that push the limits of what's possible.

We are also committed to advancing Women in Engineering and offer flexible work models designed to support diverse career journeys.

### Your Role

As a System Engineer specialized in signal processing and sensor algorithms, you will contribute to the design and validation of advanced modelling and algorithmic components for radar and multi-sensor systems. Your work will support upstream studies, demonstrations, and concept development for emerging applications such as anti-drone detection or hypersonic missile defense.

### Your Key Responsibilities

- Design and validate innovative algorithms in data fusion, tracking, and signal processing
- Conduct theoretical analyses and feasibility studies
- Develop physical models of sensors and targets
- Prototype algorithms in Python or MATLAB
- Analyze system performance and support simulations
- Present and promote concepts through demonstrations and technical reports
- Support integration of validated algorithms into software products
- Contribute to scientific visibility through publications or technical showcases
- Engage in AI/ML activities depending on project needs

## Who You Are

- Engineering degree with specialization in applied mathematics, signal processing, data fusion, or statistics
- First experience in radar algorithm design or sensor modelling
- Strong theoretical background and motivation for R&D
- Fluent in German and English (written and spoken)
- Team-oriented, autonomous, rigorous and enthusiastic
- Skilled in Python or MATLAB; knowledge of C/C++, Java, or Ada is a plus
- Basic understanding of sensors (radar, sonar, optronics)

## What We Offer

- 💡 Part of The Elleon Collective – Join a selective network of engineers shaping the future.
- 🚀 Personal & Career Growth – Benefit from certified coaching programs in leadership and negotiation.
- 👤 Women in Engineering and Family Friendly Initiatives – Flexible contracts and co-sharing models to foster career progression.
- 📖 Continuous Learning – Dedicated budget for certifications and technical skills development.
- 🏡 Well-being & Benefits – Occupational pension, wellness allowances, and more.

## Join Us & Shape Tomorrow

We are hiring now!

If you're passionate about Systems Engineering, ready to make an impact, and eager to grow your career within a strong engineering community, ELLEON is your next step.

📄 Apply today! Applications are reviewed on a rolling basis.

At **ELLEON**, we celebrate diversity and believe in equal opportunities for all. We encourage candidates from all backgrounds to apply.