VACANCY

Sensor Development Engineer (m/f/d)

Full-time
Location: Switzerland
Apply via: support@sensorXsolutions.com

Join the X-Team

SensorX Solutions AG is an innovative, fast-growing startup developing next-generation sensing technologies for smart greenhouse gas (GHG) monitoring. Our mission is to make high-performance emissions monitoring accessible, scalable, and field-deployable—supporting global efforts to tackle climate change.

Our team combines expertise in optics, sensor engineering, AI, and environmental monitoring and operates across three continents. We are proud to have received multiple innovation awards for our work in advanced sensing technologies.

Now we are looking for a Sensor Development Engineer to help us push the boundaries of portable gas sensing and bring cutting-edge technology from prototype to real-world deployment.

If you want to work in a dynamic, multicultural startup environment and contribute to solving one of the most important challenges of our time, we want to hear from you.

Your Role

As a Sensor Development Engineer, you will contribute to the design, development, and testing of advanced sensing systems for greenhouse gas monitoring, with a particular focus on high-performance optical gas sensing technologies.

You will work closely with a multidisciplinary team of engineers and scientists to translate innovative concepts into robust and scalable hardware solutions.

Key Responsibilities

- Design and develop advanced sensor systems for gas detection and environmental monitoring
- Contribute to the development of optical sensing platforms and related hardware
- Perform laboratory testing, characterization, and validation of sensor prototypes
- Support system integration including optics, electronics, and embedded components
- Analyse measurement data and optimize sensor performance
- Collaborate with internal teams and international partners on R&D projects
- Contribute to documentation, prototyping, and preparation for field deployments

Your Profile

We are looking for motivated engineers who enjoy solving complex technical challenges in a fast-moving innovation environment.

Required

- Master's degree or PhD in Physics, Electrical Engineering, Photonics, Mechanical Engineering, or a related field
- Minimum 3 years of experience in high-tech hardware development
- Experience in sensor development or scientific instrumentation
- Strong analytical and problem-solving skills
- Hands-on experience with laboratory experimentation and prototype development
- Ability to work independently as well as in a collaborative team environment
- Excellent communication skills in English

Preferred

- Experience in optical gas sensing technologies (e.g., laser spectroscopy, photoacoustic sensing, or optical sensors)
- Experience with opto-mechanical design and system integration
- Familiarity with data acquisition and signal processing
- Experience working in R&D environments or technology startups

What We Offer

- The opportunity to work on cutting-edge climate technology
- A chance to contribute to solving critical global challenges related to greenhouse gas emissions
- A dynamic and entrepreneurial startup environment
- Collaboration with leading research institutes and international partners
- A multicultural team across three continents
- Real impact: see your innovations move from lab to field deployment

At SensorX, you will not just develop sensors—you will help build technologies that enable a more sustainable future.

Interested?

Send your CV and a short motivation statement to:

support@sensorXsolutions.com

Subject line: Sensor Development Engineer Application

Join the X-Team and help shape the future of smart greenhouse gas monitoring.