

(Senior) Optical Engineer (m/w/d)

(100% Employment)

[Qnami](#), founded in 2017, in Basel develops fundamental new technology using quantum mechanics. Our first commercial product, the Qnami [ProteusQ](#) is a complete tool using the most advanced quantum technologies to image the smallest magnetic signals and explore new horizons in materials science. The product line is currently being extended with our new ProteusQ-LT, to support materials science at cryogenic temperatures, and to enable the design and production of qubits for quantum computing. To support our development activities, we are looking for a

(Senior) Optical Engineer (m/w/d)

As an Optical Engineer, you will play a major role in the design and development of our ProteusQ series.

In this position, your responsibilities will include

- Design and creation of optical systems (such as confocal, wide field, fiber optics) for our low temperature Scanning NV Microscope
- Build, test, refine and improve the prototypes, working towards target commercial instrument specifications using Agile development approaches
- Align and qualify optical systems of our products
- Identify commercially available components and/or design own components as needed
- Test instrument performance, including at low temperature
- Install instruments at customer site
- Collaborate with Qnami experts, corporate and academic partners to build new products



Qnami offers you a great working environment and a chance to learn and grow:

- Make key contributions to the development of a premiere, cutting-edge, low temperature commercial instrument
- Participate in further developments of our existing flagship product, the Qnami ProteusQ
- Develop an understanding of state-of-the-art quantum sensing technology and ultra-high-resolution microscopy.
- Experience the groove of a deep-tech quantum company
- Be a core part of a highly motivated and energetic startup team who value both scientific free climbing and human connection
- Enjoy comfortable, modern office spaces and the opportunity to connect with other entrepreneurs in one of Switzerland's premiere startup spaces

You are an experienced Engineer or Physicist with experience building and testing optical instrumentation. You are curious, like to take initiative, you are stimulated by challenge and like to work with a diverse, multi-cultural team. Your qualifications include

- Track record of designing and building laboratory or commercial measurement instrumentation
- Track record of driving projects and managing deadlines
- Demonstrated expertise with optical microscopy and instrumentation (confocal as well as wide field microscopy)
- MSc or PhD in Engineering or experimental Physics
- Experience in handling optical systems
- Experience with Agile development on multi-disciplinary teams
- Entrepreneurial spirit, passion for learning and a desire to work for a quickly growing company
- Ability to organize and prioritize work as well as organize and manage time
- Ability to travel up to 10% (once COVID allows!)
- Fluent in English, other languages are a plus
- Experience in a company is an advantage
- Experience in quantum science is an advantage

You will have responsibilities and a direct contribution to the growth of the company and the emergence of a quantum industry 1.0. Your salary will be based on your experience. The role is based in Basel, Switzerland. International travel is anticipated for this role.

Qnami was founded in 2017 in Basel, at the cross-roads of Switzerland, Germany and France, and builds on the work of Professor Patrick Maletinsky from the University of Basel. We explore implementation and application of quantum nitrogen-vacancy (NV) color center in diamond for high-performance sensing devices.

Please send your application (CV, motivation letter and examples of previous instrumentation projects in English) to jobs@qnami.ch.