



Job offer 028

(Junior) Software Developer (m/w/d)

(100% Employment)

[Qnami](#) develops fundamental new technology using quantum mechanics. The control and measurement of the state of a single electron enables us to measure what could never be measured before. We call this quantum sensing and are enthusiastically developing this technique to improve people's lives and the world.

Qnami is a magnet for talents looking to join the quantum revolution at the pulse. Multicultural, open-minded, and highly-skilled, we come from all over the world and have a deep passion for our work. Both business and scientific minded, each of us contributes with our unique skills plus a strong work ethic and enthusiastic spirit – because we believe in what we do. We value diversity and have created a self-managed, flexible team culture that supports employees' development and enables us to live a healthy, well-balanced life.

We develop and commercialize applications of [NV Quantum Sensors](#) (Nitrogen-Vacancy), leveraging proprietary technology and unique know-how. Our first commercial product, the Qnami [ProteusQ](#) is a complete quantum microscope system. It is the first scanning NV microscope for analysis of magnetic materials at atomic-scale and features state-of-the-art electronics and software. The flexible design allows for future adjustments and scaling, expansion, and functionality additions.

To support our ongoing product development of the Qnami ProteusQ, we are seeking:

(Junior) Software Developer (m/w/d)

As a Software Developer, you will work with all layers of our code. Your focus will be to improve graphical components in our LabQ framework, participate in the implementation of new functionalities and modes for the Qnami ProteusQ, and interact with our customers on code issues. Our primary stack is Python 3, PyQt, Jupyter notebook and a variety of low-level communication protocols managing the connected hardware (including C/C++ libraries).

In this position, your responsibilities will include:

- Development of efficient operation logic in Python for quantum sensing applications
- Crafting of intuitive graphical user interfaces in PyQt to facilitate the operation of our Qnami ProteusQ quantum microscope
- Interact with our customers to provide support on software bugs and warranty requests, and to ensure a premium customer experience
- Participate in the software release process

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

- Obtain an in-depth experience in a deep-tech quantum company



- Develop an understanding of cutting-edge quantum science with diamond-based materials and build-up expertise in scanning probe microscopy
- Be a core part of a motivated and energetic startup team who values both scientific free climbing and human connection
- Enjoy comfortable, modern office space and the opportunity to connect with other entrepreneurs in one of Switzerland's premiere startup spaces

You are a passionate and creative physicist/engineer. You value work in a multi-disciplinary team, like to share ideas and tackle complex challenges. Your qualifications include:

- A master's degree in Computer Science/Electrical Engineering (or equivalent)
- Solid Python 3.8 knowledge
- Passion for organization, documentation and comprehensibility
- Hands-on experience with the PyQt/Qt graphical framework (knowledge in C/C++ is an advantage)
- Excellent communication skills primarily in English, both written and verbal
- Passion to solve problems of our customers
- Proven ability to develop and maintain structured, modular code by using standard development tools and release processes (such as Git, CI/CD, unit tests, etc.)
- Contributions to open-source projects is seen as a plus
- Experience in working as a software developer in a team is a plus
- Knowledge in quantum physics is a plus

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 Muttensz, Switzerland.

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 projects in English) to jobs@qnami.ch.