Experienced Python Software Engineer

(80% - 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.

The Qnami ProteusQ is a complete quantum microscope system. It is the first scanning NV microscope (nitrogen-vacancy) for analysis of magnetic materials at atomic scale. The ProteusQ system comes with state-of-the-art electronics and software. The flexible design allows for future adjustments and scaling, expansion, and module additions.

Qnami is a magnet for talents looking to join the quantum revolution at the pulse. Young, multicultural, open and skilled, we have a deep passion for our work. We are both business and scientific minded. Each of us offers their top unique skills plus an intense work ethic and enthusiastic spirit – because we believe in what we do. We value diversity and have created a flexible open team culture of mutual respect that supports employees' development and enables us to live a healthy, well-balanced life.

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

Experienced Python Software Engineer

As a Python Software Engineer, you will work with all layers of our code. Your focus will be to work with our marketing and product team to improve the user experience and interface of the software.

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

- crafting of intuitive graphical user interfaces in PyQt to operate the Qnami ProteusQ quantum microscope
- implementation of efficient operation logic in python for quantum sensing applications
- management of the code base for the Qnami ProteusQ
- continuous improvements of products and processes, including collaborations with outsourced specialists in the field

In this position, Qnami offers you a great working environment and a chance to learn and grow:

- obtain an in-depth experience in a deep-tech quantum startup
- 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 value 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 results-oriented person with good time and project management skills. You like to take initiative, you are stimulated by challenge and like to work with a diverse, multi-cultural team. Your qualifications include

- 3-6 years of experience as a software engineer focused on user interface design
- a master's degree in computer science/electrical engineering (or equivalent)
- strong python 3.8 experience with a broad back-end skillset in various communication protocols and the PyQt/Qt graphical framework (knowledge in C/C++ is an advantage)
- proven ability to develop and maintain structured, modular code by using standard development tools and release processes (such as git, CD/CI, unit tests etc.)
- Entrepreneurial spirit, passion for learning and a desire to work for a quickly growing company
- experience in electrical engineering, PCB design and VHDL 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 our offices in Muttenz, Switzerland (at least 25% in the office in Muttenz, remote work up to 75% of the time can be considered).

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 (resume, motivation letter and links to previous projects) to jobs@qnami.ch. We seek to fill the position by or before October 2020.