

HMI Development Engineer – Software Group

(Job Reference Number: QSCH2018JB284)

Location: Switzerland, Zürich-Glattbrugg

Date: Jan 2018

Join the QualySense journey

QualySense, a young Swiss company, is reinventing the global soft commodity market by pioneering the proprietary QSorter® technology, a sophisticated high-speed single-kernel robot, which measures the compositional and physical quality of each grain and sorts it accordingly. The QSorter is the result of outstanding R&D in the field of sensing, mechatronics, biochemistry, data processing and life science along with world-known partners such as the United States Department of Agriculture, EMPA, Agroscope, and ETH. The QSorter analyzes grains at very high speed by means of Near Infrared spectroscopy and 2D/3D imaging. The company, founded in 2010, has been awarded a number of prestigious prizes. We commit to bringing excellence in nutrition, health and safety to people all over the world and we are looking for talents that can help us achieving our mission. (Video: <https://www.youtube.com/watch?v=OF8exqmmsl8>).

Challenge description

As a **HMI Development Engineer** you are a member of the Software Group within the R&D Department. You are responsible for developing and maintaining the software of the QSorter product family from the point of view of the user/graphical interface functionalities and human-machine control. Your main tasks are:

- Utilize your skills in graphical/user interfaces programming environments for industrial systems (e.g. Industrial PCs, Embedded PCs, industrial remote systems, touch-panels, etc.) to deliver state-of-the-art, industrial software interfaces, ready for 24/7/365 execution
- Develop and maintain modular, scalable and sustainable code to always be prepared for future challenges
- Design, conduct and monitor functional tests directly on the QSorter or simulated platforms, which you will also contribute to in further developing and improving
- Exploit the limits of the current system design and continuously push these limits to open new possibilities
- Use your skills, knowledge and experience to continuously improve the state of the existing software, adding new functionalities and implementing new applications

Your climbing kit

- Educational background in Computer Science, Software Engineering or equivalent
- At least 2 years of experience in Human-Machine-Interface/Graphical-User-Interface development in machine automation or in real-time embedded systems or in robotics applications or similar industries
- At least 2 years of experience in Windows applications programming in one or more of the following: C/C++, Visual Studio, QT, C#, DLL, MFC, WPF, networking and protocols (socket, TCP/IP layers, streaming, etc.)
- Knowledge of one or more of the following would be considered an asset: SCADA, Beckhoff ADS and HMIs, OPC, UML
- Good level of independence in taking ownership of tasks and executing them following the software development life cycle and applied standards (e.g. V model)
- Fluency in written and spoken English
- EU/EFTA citizens or valid Swiss working permit

Offered benefits

- A market competitive salary plus bonus incentives for individual and team achievements
- Opportunity to learn and educate yourself by interacting with our experts from different fields or by attending courses which you are highly encouraged to propose
- Opportunity to see a direct impact of your work on our products, customers and industry
- A chance to contribute your ideas and exchange feedback in an open minded and supportive environment
- You will be part of a multidisciplinary and multicultural team, following the SCRUM agile development process to achieve the maximum productivity

If you feel attracted by the challenge and you meet the requirements, we would be happy to review your application. It must be written in English and sent to jobs@qualysense.com in a PDF format, mentioning the job reference number on top of this page. Incomplete applications will not be considered.

