

SENIOR COMPUTER SCIENTIST – SOFTWARE GROUP

(Job Reference Number: QSCH2017J266)

Location: Switzerland, Zurich-Glattbrugg

Date: June 2017

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=OF8exqmm8>).

Challenge description

As the **Senior Computer Scientist**, you are a member of the Software Group (R&D Department) and will report to the Team Leader. You will work within a cross-functional team of talented engineers and scientists to pioneer the real-time deployment of state-of-the-art classification algorithms that will power the exciting QSorter sorting solutions and help QualySense pursue its worldwide vision of "Excellence in grain, seed and bean sorting". We need you to be part of our multi-disciplinary R&D effort and lead the transformation into marketable products of the next generation analysis and sorting algorithms for grains, seeds and beans on a one-by-one basis with high accuracy and at the astonishing speed provided by the QSorter platforms. With your skills, know-how and expertise, you will be leading the translation, deployment, performance optimization and validation of scientific algorithms into real-time computing languages. This unique job opportunity offers you the chance to play an important role in shaping, designing, and delivering innovative products to the food and agricultural industries and be part of a multi-cultural, fun, friendly and ambitious team of talented professionals.

A market competitive salary plus bonus incentives for individual and team achievements are part of the job offer.

Main tasks

- Share your expertise in real-time environments for embedded systems to industrialize state-of-the-art classification algorithms to provide consistent solutions to challenging problems
- Understand, analyze and challenge technical requirements and implementation strategies together with Data Analysts to enable a symbiotic collaboration
- Work cross-functional with System Engineers to exploit the limits of the current design and to discuss all available options to extend these limits
- Design, conduct and monitor functional tests directly on the QSorter or simulated platforms, which you will also contribute in further developing and improving
- Handle and maintain modular, scalable and sustainable code to always be prepared for future challenges where the future is tomorrow
- Continuously report current status, challenges and next steps of your latest work during all the phases of the projects you are involved with
- Educate yourself and be always up to speed with the latest findings in your field of research so that QualySense is always first in bringing new ideas to the marketplace
- Become indispensable part of QualySense team and ambassador of the QualySense culture by understanding how we work, interact and have fun as a team

Your climbing kit

Education:

- M.Sc. Degree in Computer Science or equivalent. Ph.D. is an asset

Experience:

- 5+ years of experience in implementation of real-time software for embedded systems
- In-depth knowledge of MATLAB, LabVIEW and C++
- Demonstrated experience with industrial software development life cycle
- Documented ability to work collaboratively within cross functional teams

Technical skills:

- Extreme knowledge of real-time programming techniques in embedded systems are required
- In-depth know-how of various test-driven approaches and principles of continuous integration
- Proven theoretical background in computer science is a must
- Advanced knowledge of the Microsoft Office Suite is well accepted
- Strong documentation, organization and time management skills

Travel:

- Up to 10%.

Soft skills:

- Hands on execution and proactive attitude
- Highly dynamic and entrepreneurial mindset
- Independence in performing tasks from planning, execution to reporting
- Inclination to work in a diverse and multidisciplinary team
- Excellent presentation and communication skills
- High orientation to details, with an impeccable integrity
- Super positive mood: no job is too big, no job is too small
- You enjoy grains, seed and beans and have a passion for food in general

Languages:

- Fluency in written and spoken English
- Knowledge of German is an asset

Permit:

- EU/EFTA citizens or valid Swiss working permit

How to join our team

1. Are you able to analyze problems and implement solutions?
2. Do challenges motivate you?
3. Are you a born entrepreneur?
4. Do you have passion and dedication to innovate the food world?
5. Are you a citizen of the world and enjoy being part of an international team?

If you have answered **YES** to all questions above, then you have high chances to be part of our team. Send your complete application in **PDF** format (including motivation letter, CV, copies of degrees, reference letters, and any relevant documents) or inquiries to jobs@qualysense.com mentioning the job reference number on top of this page. Application must be written in English. Incomplete applications will not be considered.



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