

IMAGE DATA ANALYST – LIFE SCIENCE ANALYTICS GROUP

(Job Reference Number: QSCH2017JB269)

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 **Image Data Analyst**, you are a member of the Life Science Analytics 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 development of image based extraction algorithms analysis 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 creation 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 involved in the projects at 360°, from formulating project requirements to ensuring your deliverable reflects excellent customer satisfaction. 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 data mining, statistics and food science to develop state-of-the-art machine learning algorithms to continuously find solutions that are to others impossible
- Work and interact with a cross-functional team of talented engineers to turn your data driven solutions into pioneering, real-time and customer-ready products
- Design, conduct and monitor data experiments on the QSorter platforms, which you will also contribute in further developing and improving
- Participate in every step of product development: from prototyping to robust industrialized solutions, passing through testing protocols and use-cases' studies
- Understand, analyze and challenge customer requirements together with your R&D colleagues, with the Product Managers and ultimately with the customers
- Handle and maintain big data sets in a dedicated database to have data supporting you with your work and your creativity
- Support the Product Management in customer relationship management and marketing dissemination by providing periodical reports on current status, challenges and next steps about your projects
- Keep yourself up-to-date with latest technological developments in your field of research so that QualySense is always first in bringing new ideas to the marketplace
- Become an ambassador of the QualySense's culture understanding how we work, we interact and have fun as a team
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Your climbing kit

Education:

- M.Sc. Degree in Machine Learning, Computer Science, Bio Informatics or equivalent. Ph.D. is an asset

Experience:

- 5+ years of experience in image processing and machine learning techniques
- Extreme proficiency in MATLAB
- In-depth knowledge of Python, C++ and LabVIEW
- Demonstrated relevant industry experience, preferably in the food and / or agricultural domain
- Documented ability to work collaboratively within cross functional teams

Technical skills:

- Firm theoretical background in mathematics and computer science is a must
- Traditional machine learning concepts such as Bayesian classification, random forests, manifold learning and dimensionality reduction should bear no secrets to you
- Advanced knowledge of the Microsoft Office Suite is well accepted
- Strong documentation, organization and time management skills is required

Travel:

- Up to 10%

Soft skills:

- Hands on execution and proactive attitude
- Highly dynamic and entrepreneurial mindset
- 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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