

NIR Data Scientist – Life Science Analytics Group

(Job Reference Number: QSCH2018JB285)

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 **NIR Data Scientist** you are a member of the Life Science Analytics Group within the R&D Department. You are responsible for 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. You will be involved in the projects at 360°, from formulating project requirements to ensuring your deliverable reflects excellent customer satisfaction. Your main tasks are:

- Utilize your skills in data mining, statistics and food science to develop state-of-the-art spectral analysis algorithms to continuously find solutions that are to others impossible
- 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
- 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
- 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

Your climbing kit

- Educational background in Chemometrics, Analytical Chemistry, Physical Chemistry, Food Science, or related fields with emphasis on spectral data analysis and near-infrared spectroscopy
- Experience in spectroscopic data analysis, chemometrics and statistics
- Multivariate regression and classification methods
- Proficiency in MATLAB. Experience in C++ or willingness to learn it
- Documented ability to work collaboratively within cross functional teams
- Strong documentation, organization and time management skills is required
- 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.



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