

## JUNIOR NEAR INFRARED SPECTROSCOPY ALGORITHM SPECIALIST – APPLICATION GROUP

(Job Reference Number: QSUS2016JB252)

Location: Chicago, USA

Date: June 2016

### 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

The junior Near Infrared spectroscopy algorithm specialist will be part of the Applications team and participate in the development of NIR-spectral data analysis and development of calibration and sorting algorithms. He/she will be involved in understanding application requirements, designing and conducting experiments, in maintaining the laboratory, validating results in the laboratory. This position offers an excellent opportunity to play an important role in designing, and deploying new exciting sorting applications for the analysis of grains, seeds and beans.

### Your climbing kit

Education: BSc in analytical chemistry, Chemometrics, food science, or related fields with emphasis in spectral data analysis and near-infrared spectroscopy

Programming: Required skills: Understanding of statistics and spectral data analysis  
Desired skills: NIR spectroscopy, Chemometrics, MATLAB

Experience: Between 1 and 3 years of spectral data analysis and/or food quality management applications.

Travel: Up to 20%

Soft skills: Excellent presentation and communication skills, creative, innovative, organized, responsible, get-it-done attitude, autonomous. Willing to work in a highly dynamic, entrepreneurial and demanding environment.

Languages: Fluency in English

### 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 [usajobs@qualysense.com](mailto:usajobs@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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