

JUNIOR COMPUTER VISION SPECIALIST – APPLICATION GROUP

(Job Reference Number: QSCH2017JB261)

Location: Zürich-Glattbrugg, Switzerland

Date: March 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=OF8exqmmsl8>).

Challenge description

As a Junior Computer Vision Specialist, you will be a member of the Application Group within the QualySense R&D Department, reporting to the Team Leader. You will be pioneering the development of image based information extraction and sorting solutions for grains, seeds and beans. You will be involved in understanding application requirements, designing and conducting experiments, developing algorithms for the efficient extraction of quality parameters, validating results in the laboratory, publishing scientific results, supporting field experiments worldwide, and interface with industrial and academia partners. The position offers an excellent opportunity to play an important role in shaping, designing, and implementing innovative application in the food domain, to be part of a successful startup and, most importantly, to work in a fun environment.

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

Major tasks

- Development of advanced machine learning algorithms for sorting of various grains, beans, and seeds
- Real-time implementation and optimization of computer vision algorithms
- Standardization of machine vision systems
- 3D reconstitution from multiple images
- Following a structured work approach in close cooperation with all team members: understanding the requirements and operation of various computer vision systems, creating and executing work-plans, documenting results

Your climbing kit

Education: Bachelor degree in engineering, computer science, bioinformatics or related field with emphasis on machine vision and information extraction

Programming: Required skills: Proficiency in MATLAB and image processing
Desired skills: LabVIEW

Experience: Between 1 and 3 years of image processing and machine learning techniques experience. Experience in the food industry is an advantage

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

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.

