

Open job position: Image Processing R&D Specialist

SUMMARY

Location: siHealth Photonics Srl, Via Aurelio Lampredi 45, Livorno, Italy

Contract type: Permanent position, full-time, inclusive of a *Ph.D. in Optical Image Processing* fully funded by siHealth Photonics

WHO WE ARE

siHealth Photonics (www.sihealthphotonics.it) performs advanced research and development (R&D) activities focused on innovative Image Processing and Artificial Intelligence (AI) for healthcare. It's a subsidiary of siHealth (www.sihealth.co.uk), a British fast-growing company that develops mobile healthcare solutions globally using satellite data and smart diagnostic tools for supporting healthy lifestyle and diseases prevention & treatment.

POSITION

We are seeking for an energetic *Image Processing Specialist* to take on an exciting role within our R&D team, joining us to apply Image Processing techniques and optical modelling together with Artificial Intelligence methods for creating new healthcare digital solutions for smart skin diagnostics and skin cancers treatment. This role presents an excellent opportunity to join a fast-growing company, making a real impact on its success.

Responsibilities

The candidate will research and develop innovative methods to extract readable skin diagnostic information from optical multispectral data, for example taken by mobile devices (e.g. smartphones).

The successful candidate will participate both in the requirements analysis and in the definition of the hardware and software configuration of the image acquisition system. The role will focus on being responsible of the design and the prototyping of multispectral image processing algorithms, 3D image reconstruction from mobile devices, extraction of ready-to-use diagnostic information as well as discriminating features for the application of Artificial Intelligence techniques. The successful candidate will be also in charge of the validation of the algorithms soon integrated on mobile devices thanks to tight collaboration with software specialists.

Technical skills

Required

- MSc in Physics or Mathematics
- Knowledge of optical systems and multispectral imaging techniques
- Knowledge of statistical data analysis techniques (e.g. clustering, classification)
- Experience with computer programming and prototyping languages (e.g. Matlab, Python, C/C++)

Nice to Have

- Experience in image or signal processing design (e.g. feature extraction, image enhancement, pattern recognition, computer vision)
- Experience with machine learning and deep learning techniques

Personal skills

- Passion for research, team spirit and desire for being part of a multicultural environment
- High interest for optical technologies and healthcare applications

HOW TO APPLY

Please email both your detailed CV and a Cover Letter to careers@sihealthphotonics.it, marked for the attention of Dr Marco Morelli (Chief Technology Officer).

All candidates will be evaluated fairly, on their merits and suitability for the role.