

Image Processing Engineer

Join us at BT Imaging, the trailblazer and market leader in luminescence imaging for solar materials, cells and modules, as we expand this inspection technology throughout the photovoltaic manufacturing value chain.

Did you know that each day, hundreds of millions of solar cells are made around the world to make solar panels? That's more semiconductor material used than the entire chip industry combined. Gigafactories need to become faster, cheaper and smarter, and more inspection and data analysis power is needed. BT Imaging is the pioneer in luminescence imaging, which offer unparalleled X-ray like vision into the inner quality of solar wafers and cells. We're poised to do much more in making this imaging technology proliferate in all segments of the PV industry, from research through to production, cells to modules.

The Role

You will maintain, improve, modernize and expand the code base for image processing/analysis for both lab and inline inspection tools. You will also work with the quality control team to write in-house image processing codes that streamlines their activities. You will be actively involved with gathering customer feedback, working closely with the software and engineering teams to understand and form requirements for the methods that you will implement.

KEY RESPONSIBILITIES

- Image processing software development, from requirements specification through to algorithm development and code implementation
- Gather bug reports from the field to troubleshoot existing image processing algorithms and pipelines.
- Work with the quality control team to streamline the image alignment and calibration process.
- Research and incorporate up to date machine learning models and training pipelines for image pattern recognition tasks, as appropriate.
- Test and update the .software interface between image processing and the rest of the software
- Resolve project issues and problems.
- Select up to date external libraries / components for projects.

Essential Experience/Knowledge

- Bachelor's degree or higher in computer science / computer engineering
- In depth experience with python and the OpenCV, PyTorch, Seaborn libraries
- Experience with implementing image processing methods in lower level programming languages like C or C++
- Familiarity with machine vision system components.
- Understanding of version control systems release workflows.

Desirable Skills/Experience

- 3 or more years of work experience in related topics
- Experience with developing semi-supervised or interactive machine learning pipelines for image segmentation tasks
- Experience with edge computing, edge-based preprocessing and feature extraction

Candidates must have, or be able to qualify for the right to work in Australia.

How To Apply

Please send your Cover letter and CV to hr@btimaging.com

About US

BT Imaging is a spin off from the University of New South Wales. We are the pioneer and the leading supplier of solar cell inspection equipment focusing on photoluminescence technology. We've delivered products to US, Europe and Mainland China.

Our expanding Research and Development team is built around a group of industry leading talent and leadership. Engineering disciplines include Mechanical, Electronics and Software working together to develop our expanding range of products and equipment. We combine a fundamental belief in excellence, a passion for our work and a down-to-earth, easy-going team nature to build a truly rewarding workplace experience.