

Mechatronics Engineer

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

Did you know that each day, hundreds of millions of solar cells are made around the world to make solar modules? That's more semiconductor material used than the entire chip industry combined. Gigafactories need to become faster, cheaper and smarter, and more inspection and image 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. As a sterling brand-name, we're poised to do much more in making this camera technology proliferate in all segments of the PV industry, from research through to production, cells to modules.

The Role

This role provides development, testing, and support and for the company's existing and new products. Candidates will have a solid foundation in Mechatronics and are able to contribute the bigger picture working at both a detail and systems level.

KEY RESPONSIBILITIES

You will apply theoretical knowledge and practical experience to contribute to the ongoing development of our products:

- Work closely with the other engineering disciplines to produce optimal results.
- Assist the field team to troubleshoot issues and continuously improve existing systems.
- Collaborate on analog and digital design.
- Prepare accurate and complete electrical designs and calculations as required to meet project requirements.
- Resolve project issues and problems.
- Select and assist in sourcing components.
- Develop procedures to be used by the production team.
- Assist production with product issues.

Essential Experience/Knowledge

- Bachelor's degree or higher in mechatronics engineering.
- At least 5 years' post-degree work experience.
- Strong PLC programming experience.
- Previous experiences in designing PLC based control systems are a bonus.
- Familiarity with machine vision system components.
- Familiarity with motion control systems.
- Familiarity with AS45001, workplace health & safety legislation and codes of practice.



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Desirable Skills/Experience

- Experience working with National Instruments data acquisition devices
- Experience with microcontrollers
- Experience with PCB design
- Mechanical design experience with Solidworks CAD as a preference.

Candidate must be an Australian resident or able to qualify for Australian residency.

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.