

Position: Development Engineer

Location: Adelaide, South Australia

Employment Type: Full Time

Company Overview:

entX Limited is a dynamic technology incubator committed to the development and commercialisation of sustainable, scalable, and value-driven technologies applicable to the space and defence, hydrogen and nuclear medicine sectors. Central to our technology development is a team of highly skilled and dedicated professionals with expertise in nuclear and radiation science, technical and mechanical design, systems manufacturing and process engineering. Through these capabilities, we effectively assess, advance and fund multiple parallel commercialisation opportunities, driving them from incubation to monetisation within our target sectors.

entX is an equal opportunity employer that prides itself on a progressive culture where employees are valued team members who are encouraged to think and act big.

About the Role:

A key project within the entX Space and Defence pillar is our GenX Betavoltaic technology. This technology enables long duration, stable power for a variety of applications. entX is seeking a highly motivated and skilled Development Engineer to lead the transition of our R&D technology in betavoltaics to commercialization. This role will be pivotal in transitioning the process from the lab to a commercial setting, including engineering documentation and specification review, system scale-up, installation, and validation for operational deployment in space and defence applications.

This role will involve collaborating closely with cross-functional teams, including scientists and engineers within entX and our university partners, to ensure seamless technology transfer and integration. Your expertise in engineering, coupled with a passion for innovation and problem-solving, will drive the success of this critical project.

Responsibilities:

- Support materials R&D activities and experiments to achieve successful lab validation milestones.
- Lead integration of key manufacturing capabilities within entX's facilities to support commercialisation goals (PVD processes, liquid based coating technologies).
- Support product and process design outputs including FMEAs, DVP&Rs, PCP.
- Work closely with external research partners, vendors, and academic institutions to leverage their expertise and resources on the projects.
- Support establishing robust quality management systems broadly in the business.
- Adhere to all safety guidelines and protocols to maintain a safe and efficient work environment. Ensure compliance with relevant regulations and industry standards.
- Prepare and maintain documentation of new and existing IP building on the company's existing portfolio.
- Stay up to date with the latest advancements in the Space and Defence industry, as they relate to technology adoption. Participate in conferences, workshops, and industry events to foster innovation and contribute to the organisation's intellectual capital.

Requirements:

- Education:
 - Professional Mechanical Engineering, Materials/Science qualification or similar qualification
- Accreditation and Licenses:
 - Possession or willingness to attain licences and qualifications related to management and handling of radiation and radioactive material.
 - Baseline or NV1 Security Clearance, or ability to apply for clearance.
- Experience:
 - A minimum of 6 to 10 years prior experience in technology development, manufacturing or related research work is advantageous.
- Technical Skills:
 - Demonstrated expertise in translation of R&D to the manufacturing industry.
 - Knowledge of manufacturing methods for thin-film coatings.
 - Basic to intermediate CAD competency, within Autodesk Inventor, Solidworks, CATIA or similar.
- Communication:
 - Excellent written and verbal communication skills, with particular attention to detail within engineering and quality documentation.
- Team Player:
 - Strong teamwork and collaboration skills to contribute effectively in cross-functional project teams and foster a culture of knowledge sharing.
- Problem-Solving:
 - Demonstrated ability to identify and solve technical challenges creatively and independently.
- Flexibility:
 - Adaptability to handle multiple tasks simultaneously, prioritise work effectively, and respond to changing project requirements.
- Safety Awareness:
 - Knowledge of safety protocols and a commitment to maintaining a safe work environment.
- Willingness to work safely with radiation sources, adhering to all regulatory guidelines, training and safety protocols
- Willingness and ability to travel interstate and overseas when required.

To be eligible for appointment to this role, applicants will possess corresponding rights to work in Australia as an Australian citizen or an Australian Permanent Resident.

If you are passionate about driving innovation in a cutting-edge technology and possess the required qualifications and skills, we encourage you to apply for the position of Development Engineer at entX. Join us in shaping the future of our catalyst technology and making a positive impact on various industries worldwide.

Please send your application, including CV to:

Jake Whittenbury jake@entx.com.au