

Position Title	Production Engineer (ADaPT)
Group/Portfolio	Division of the Deputy Vice Chancellor (Research) / ADaPT
Classification	HEW 6
Position Number	00063573
Reports To	Operational Manager (ADaPT)
Employment Type	Fixed term

1.0 Position Purpose

The Production Engineer (ADaPT) will serve as a bridge between R&D teams, academics, and commercial partners, converting research into prototypes and products. They ensure precision and innovation through ISO-aligned project management, 3D printing, and advanced software utilisation. - As a staunch advocate for safety and best engineering practices, the Production Engineer will lead facility tours, mentor students, and maintain a meticulous record-keeping system. The position extends to equipment management, quality assurance, and active engagement with external suppliers and stakeholders, ensuring compliance with legislation and university standards in a highly professional manner.

2.0 Eligibility Requirements

- The candidate will hold a bachelor's degree in mechanical or biomedical engineering or a closely aligned field.
- This role involves a high level of manual handling, requiring the ability to safely lift, move, and manage various materials and equipment on a regular basis.

3.0 Key Responsibilities

- Collaborate with inter-disciplinary R&D teams, commercial partners, researchers, academics, and students. Act as a bridge to translate research and ideas into tangible prototypes and, eventually, commercial products.
- Oversee project development, verification, validation, and risk management of design and manufacturing projects, ensuring alignment with ISO 9001 and ISO 13485 principles.

- Engage in 3D printing processes using a diverse range of materials, including advanced polymers, metals, resins, and ceramics. Focus areas are applications in the industrial, marine, aerospace, and biomedical domains.
- Demonstrate a strong commitment to safety by ensuring all activities comply with engineering safety standards and protocols, and by promptly addressing any risks or disruptions. Take a proactive role in developing, reviewing, and implementing risk assessments for all processes within the ADaPT facility.
- Utilise and master 3D slicing software such as Autodesk Fusion 360, Preform, 3DSprint, Eiger, alongside other relevant equipment-specific platforms. Demonstrate high proficiency in CAD and segmentation tools like Autodesk Fusion 360 and Simpleware Synopsys, respectively, to achieve digital design pathways for fulfilment of production and business objectives.
- Facilitate and lead informative tours of the ADaPT facility for a range of stakeholders, including industry clients, government officials, academic staff, and students.
- Provide technical supervision, advice, and professional guidance to undergraduate and HDR (Higher Degree by Research) students. Conduct safety inductions and offer in-depth technical training for ADaPT's equipment and software for facility users.
- Maintain detailed notes and records of all design, prototyping, and production endeavours. Pay special attention to concepts with potential intellectual property value and actively participate in the development of workflow and standard operating procedure documents.
- Oversee and maintain detailed records of the installation, maintenance, repair, calibration, and updates of all technical, production, analysis, and IT equipment—including hardware, software, and network systems—within the ADaPT facility, while actively contributing to the continual enhancement of ADaPT's procedures and activities.
- Regularly liaise with external suppliers and contract-manufacturers and stay updated on technological advances in design and prototyping. Procure essential equipment and software using the university's financial system.
- Maintain compliance with relevant legislation and University policies and procedures, including equity and health & safety and exhibit good practice in relation to same.
- Be a leading example of the principles and values embodied in the University's Code of Conduct, and behave, act and communicate at all times to reflect fairness, ethics and professionalism.

4.0 Key Capabilities

- Griffith University identifies the attributes of resilience, flexibility, creativity, digital literacy and entrepreneurship as critical to our graduates' success, in the rapidly changing future world of work. We have established a Griffith University Capability Development Framework to provide a common language of some of the non-technical organisation skills that will support our staff to thrive now and into the future. The Capability Development Framework will assist you to understand the current skill level of this position in the non-technical but critical skill domains that are increasingly important in a changing workplace context.

To read about some of the non-technical organisation skills for this position, please see the Leads Self section of our [Capability Development Framework](#).