

24697 - Professor / Associate Professor, Mechanical
Circulatory Support, Faculty of Engineering
Queensland University of Technology

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Posted Aug. 13, 2024, set to expire Sep. 15, 2024

Job Title	24697 - Professor / Associate Professor, Mechanical Circulatory Support, Faculty of Engineering
Department	Faculty of Engineering https://www.qut.edu.au/
Institution	Queensland University of Technology Brisbane, , Australia
Date Posted	Aug. 13, 2024
Application Deadline	Sep. 15, 2024
Position Start Date	Available immediately
Job Categories	Associate Professor Professor
Academic Field(s)	Mechanical Engineering Engineering Mechanics Electrical and/or Electronics Bioengineering (all Bio-related fields) Engineering - Other
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Job Description

The Artificial Heart Frontiers Program has been developing artificial hearts and related technologies over the last decade or more. We have teamed with leading academic, healthcare and industry partners to launch a new program to develop the world's most advanced artificial heart, and the next

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generation of cardiovascular technology to support all patients with heart failure. Our program is co-directed by Professor Shaun Gregory (Queensland University of Technology) and Professor David Kaye (Monash University).

The Artificial Heart Frontiers Program plans to scale up research and commercialization programs and now is an excellent time to join the initiative at this early stage to help shape the future of heart failure treatments using our revolutionary pipeline technology.

The AHFP Associate Professor/Professor of Mechanical Circulatory Support (MCS) is a key position for the MRFF funded AHFP operations. This role will oversee all aspects of the development of the MiniPump device; a miniature blood pump which is targeted to support patients with severe heart failure with preserved ejection fraction (HFpEF). This includes oversight and contribution to the mechanical and electrical engineering development work that is required to design, prototype, test and manufacture the MiniPump. It also includes oversight of activities as part of a collaboration with other AHFP Chief Investigators including implementation of physiological control systems, remote monitoring, wearables and digital apps, and pre-clinical evaluation including simulations, benchtop experiments (mock loops, haemocompatibility), and animal studies. The position will oversee and contribute to the development of optimised hydraulic systems for the blood pump to meet a range of physiological conditions. Importantly, the position will have a leadership role in the AHFP team which will involve mentoring and supporting other members of the team and assisting them with their professional development. The role will also have oversight of the budget for some AHFP projects and be involved in future fundraising activities.

View the job details and apply here: <https://qut.nga.net.au/?jati=3706CA8C-9BC5-A3CC-ECB8-DB04ABEC83AA>

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Contact Information

Please reference Academickeys in your cover letter when
applying for or inquiring about this job announcement.

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