



Overview

Schwartz Foundation Medical Technology Innovator Fellowship – is funded through the Schwartz Foundation. This prestigious scheme aims to attract outstanding early- to mid-career post-doctoral researchers (equivalent to Academic Levels B or C) to expand Australia's innovation capacity in medical and biotechnology research. The Fellowship supports the development of next-generation diagnostic, therapeutic, and bioengineering technologies with the potential to transform clinical and healthcare practices.

Fellows will be hosted at a Host Organisation (typically an Australian University or affiliated research institute). The Fellowships represent a three-way partnership between the Fellow, the Schwartz Foundation, and the Host Organisation. Fellows will be employed by the Host Organisation while maintaining a strong collaborative link to the Schwartz Foundation's innovation network.

The Fellowships will provide **five years of funding**, up to **\$100,000 per year** for salary and operating expenses, administered by the Host Organisation. Operating expenses may cover experimental costs, prototype development, consumables, equipment, travel, and other research-related costs. The Host Organisation and/or other sources are expected to contribute to the remaining salary and additional research costs.

The Role

In this **Schwartz Foundation Medical Technology Innovator Fellowship**, you will have the opportunity to:

- Initiate and lead high-impact research projects utilising stem cells, medical device development, diagnostics, or therapeutic biotechnology.
- Translate fundamental discoveries into proof-of-concept medical technologies for human health applications.
- Design and fabricate biomedical prototypes, biosensors, or implantable systems.

- Apply computational biology and bioinformatics for biomarker identification and systems-level analysis.
 - Develop high-throughput screening systems, microfluidic devices, or lab-on-a-chip platforms.
 - Integrate biocompatible materials and 3D printing for regenerative medicine and cell delivery systems.
 - Collaborate across disciplines including engineering, synthetic biology, and clinical research.
 - Carry out technology validation through in vitro and/or in vivo models.
 - Contribute to IP development, technology transfer, and startup/industry partnerships.
 - Produce high-quality publications, technical reports, SOPs, and patent filings.
 - Engage with regulatory frameworks including TGA and ISO standards for medical technologies.
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About You

You will have a PhD in cell biology, biotechnology, molecular biology, or a related discipline, with a strong academic and technical research track record. You will demonstrate capacity for innovation and translation of research outcomes to real-world medical applications. You will bring expertise in stem cell biology, medical technology design and development, molecular or cellular engineering, data-driven research, and collaboration across multi-disciplinary teams.

Desirable experience includes:

- Leadership and experience in stem cell biology, multi-omics technology and bioinformatic systems biology.
 - Experience with prototyping tools including microfabrication, 3D printing, and CAD software.
 - Working knowledge of molecular biology, biosensors, or drug delivery systems.
 - Familiarity with clinical sample handling, ethical compliance, and translational research practices.
 - Background in bioinformatics, machine learning, or AI for health technology applications.
 - Experience writing patents, startup engagement, or collaborating with industry/R&D consortia.
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To Apply

Please apply online and attach your **CV** and a **cover letter** addressing how you meet the **selection criteria** below.

As a Schwartz Foundation Medical Technology Innovator Fellow, you must bring the following:

- A PhD (awarded between 1 July 2012 and 1 July 2020) in cell biology, biotechnology, molecular biology, or a closely related field.
- Experience in medical technology, biotechnology, or device-based innovation.
- Experience in cell culture, cell based assays, experience in handling stem cells particularly mesenchymal stem cells, neural stem cells, hematopoietic stem cells, induced pluripotent stem cells
- Primary cell isolation of cells is essential from human and animal tissues
- Experience in differentiation to neural lineages is essential
- Experience in molecular biology techniques
- Interest in cell based therapies
- Demonstrated skills in prototyping, experimental design, and translational research.
- Strong analytical and problem-solving capabilities, including systems-level thinking.
- Evidence of publishing in high-impact journals and/or patent filings.
- Excellent communication and teamwork skills, including stakeholder engagement.
- Ability to supervise junior researchers and manage multidisciplinary projects.
- Track record in applying for or securing competitive research funding.
- Familiarity with regulatory and ethical frameworks (e.g., TGA, ISO, GMP).

Eligibility Criteria

Applicants

- Must hold a PhD awarded between **1 July 2012 and 1 July 2020**.
- Must currently hold or be eligible for **Academic Level B, C or D** positions.
- May be **Australian or international**; international applicants are responsible for ensuring eligibility for an Australian working visa.

Host Organisation

- Must be an **Australian University** or affiliated research institute.
- Will physically host and employ the Fellow and be responsible for administering funding.

Supervision at Host Organisation

- Each applicant must nominate **one Academic Research Supervisor** from the Host Organisation.
- The supervisor must hold a **substantive academic position** and have a strong record of research leadership and mentorship capacity.

What Should You Do Next?

Specific Role Enquiries: jerry@schwartz.com.au

Apply: With a **cover letter addressing selection criteria** and your **CV**.

Shortlisted Applicants: Will be contacted for interviews.

Successful Applicants: Must accept their Fellowship **in writing within seven days** of receiving an offer.

Applications Close: 10 August 2025