



Overview

Schwartz Foundation Stem Cell Futures Fellowship - is funded through the Schwartz Foundation. The scheme aims to attract outstanding early- to mid-career post-doctoral researchers (equivalent to Academic Levels B or Level C) to expand Australian research capacity in stem cell biology. Furthermore to increase research projects into development of medically viable therapeutics.

Fellowships will be hosted at a Host Organisation (usually an Australian University). The Fellowships program is a partnership between the Fellow, the Schwartz Foundation and the Host Organisation. Fellows will be employed by the Host Organisation but will maintain a strong linkage to Schwartz Foundation.

The Fellowships will provide five years of funding of up to \$100K per year for salary and operating expenses to be administered by the Host Organisation. Operating expenses may be used for experimental costs, equipment, travel, and other expenses directly related the Fellow's position. Host Organisation and/or other funding sources must fulfil the remainder of position salary and/or additional operating expenses.

The Role

In this Schwartz Foundation Stem Cell Futures Fellowship role you will have the opportunity to:

- Initiate and conduct new projects in stem cell biology and disease modelling
- Analyse data to draw conclusions and decide on next steps
- Perform cell culture of stem cells, primary cells and established cell lines and differentiation of stem cells to various cell lineages.
- Perform characterisation of differentiated cells by flow cytometry and qPCR and perform functional cell-based assays.
- Perform proteomic and secretomic analysis by mass spectrometry and antibody based ELISA methodologies
- Develop 3D printing techniques for stem cell and differentiation niches
- Bioinformatics analysis on large datasets
- Carry out literature reviews /collate information to identify information useful for the development of novel assays or the improvement of current processes.
- Contribute to written documentation including SOPs, publications and patent applications.

About You

- You will have a PhD in cell biology or equivalent with a sound academic track record and research skills. You will have a demonstrated skills in biological research based projects, problem solving and analytical skills. You will bring to the role knowledge of stem cell biology, molecular biology, proteomics, bioinformatics analysis, cell culture and computing expertise. You will have strong communication and teamwork skills.
- Ideally, you will also be familiar with handling and processing primary derived tissue from humans or animals as well as the skills in producing induced pluripotent stem cells.

To Apply

To be considered for this position, please apply online and attach your resume and a separate cover letter that outlines how you meet to the selection criteria below. As a Schwartz Foundation Stem Cell Futures Fellow you must bring the following skills and experience:

- A PhD in cell biology or a related subject.
- 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
- Experience in 3D printing technologies
- Experience in systems biology based bioinformatics analysis of large datasets
- Drug-target binding assay development
- Molecular Modelling
- Excellent computer skills and an effective communicator with good interpersonal skills
- Strong presentation skills and the ability to work under pressure and as part of a team.
- Supervision Experience
- Publication record and ability to apply and attract further funding with industry engagement.
- Familiar with GMP and TGA guidelines to implement into research projects

Eligibility Criteria

Applicants

Applicants must hold a PhD conferred between 1st July 2012 and 1st July 2020, i.e. no more than 8 years' post-PhD research experience on the closing date for the applications

For University-hosted applicants: The scheme is open to researchers at Academic Levels B and C. Applicants must apply at the same or higher academic level to that which they are currently employed (i.e. applicants cannot apply at a lower academic level).

Applicants who hold a tenure-track/continuing/tenured/ permanent/faculty/indefinite position are not eligible to apply.

Applicants may be Australian or international; international applicants will be responsible for ensuring that they are eligible to apply for a visa to work in Australia.

Host Organisation

The Host Organisation will physically host the Fellow for some or all of the project and will be financially responsible for the Fellow and the Project. The Host Organisation will usually be an Australian University located in Australia.

Supervision at Host Organisation

Each Fellowship applicant must nominate one Academic Research Supervisor from within the Host Organisation faculty/institute. The Supervisor must hold a paid, substantive academic position at Host Organisation. The Supervisor must have agreed with the Candidate to support his/her application. The Supervisor must possess the demonstrated capacity to provide mentoring commensurate with the high research performance expectations of Host Organisation.

What should you do next?

Specific Role Enquiries: jerry@schwartz.com.au

Apply with Cover letter addressing selection criteria and CV

Interviews will be notified to short listed applicants

Successful applicants must accept their Fellowship in writing within seven days of receiving the offer.

Applications Close: on the 31 January 2020