

# RMIT-Human Aerospace Masters by Research Scholarships



## Spacesuits for Preserving Human Health and Mobility

This is an opportunity to be an integral team member in a wider project focussed on the development of garment-based countermeasures for: 1) Preserving human health in space during intra-vehicular activity (IVA), via further development of the gravity loading countermeasure skinsuit. 2) Enabling safer and more effective spacewalks/surface exploration missions during extra-vehicular activity (EVA), via exploration of mechanical counter pressure as an alternative to traditional gas-pressurised space suits. 3) Protecting astronaut health upon return to Earth, via the development of compression garments for mitigating orthostatic intolerance (OI).

This project is an industry sponsored collaboration between RMIT University and **Human Aerospace Pty Ltd** based in **Melbourne, Australia**. Parts of this project will also be completed in conjunction with collaborators at universities in the United States and International Space Agencies.

### Eligibility

To be eligible for this scholarship you must:

- have a first-class honours or 2A honours or equivalent degree in a relevant discipline of engineering/science;
- Australian permanent resident or an international student meeting the minimum English language requirements;
- provide evidence of good oral and written communication skills;
- demonstrate the ability to work as part of a multi-disciplinary research team;
- meet RMIT's entry requirements for the master by research degree.

### Value and Duration

This scholarship provides a stipend of \$31,260 per annum (pro-rata) for two years. Successful international applicant will also be awarded an International Tuition Fee Scholarship

### Your background.

We are looking for candidates who have an enthusiastic and collaborative mindset, a purposeful and reliable working style, and an interest in space/spacesuits research. Key experience includes 1) material or textile science/engineering, and/or 2) computer modelling of physical systems (e.g. MATLAB).

For further details contact

Professor Rajiv Padhye  
[Rajiv.padhye@rmit.edu.au](mailto:Rajiv.padhye@rmit.edu.au)

or

Dr James Waldie  
[jwaldie@humanaerospace.com.au](mailto:jwaldie@humanaerospace.com.au)

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