

15 PhD Scholarship – IISRI, Deakin University, Australia

The Institute for Intelligent Systems Research and Innovation (IISRI) at Deakin University contributes to the research and development (R&D) areas of Robotics, Autonomy, Simulators Technologies, Human Performance Assessment, Haptics, and Human-Machine Interfaces. IISRI has more than 100 researchers who use their R&D expertise to develop practical solutions for addressing real-world problems and generating commercial-ready products and services. As a result, IISRI has been successful in the delivery of numerous industry-based research projects with major national and international organisations. IISRI's engineering and IT researchers provide robotics, simulation modelling and haptics solutions to clients such as the aerospace, automotive, defence, security, logistics and healthcare industries.

Applications are invited from qualified graduates for fully-funded PhD scholarships. The scholarships cover tuition fees and a tax-free stipend for the duration of the three-year programme (approximately AUD 28,000). The areas of research are wide ranging and multi-disciplinary. The major research themes include, but not limited to, the following:

- Machine learning and artificial intelligence and their applications
- Robotics, haptics, tele-robotics, and tele-operated systems
- Autonomous systems design and development
- Human factors and human performance monitoring
- Human machine interaction
- Augmented and virtual reality
- Simulators and simulation technologies

PhD candidates with skills in the following fields will have an advantage: computational intelligence (deep learning and evolutionary optimisation), statistics, engineering (electrical, mechanical, computer), and robotics (hardware and software).

The desired, but not compulsory, experience includes:

- Experience in computer vision;
- Experience in collaborative software development;
- Good knowledge in tools like GIT and object-oriented programming languages such as Python and/or C/C++;
- Familiarity with deep learning libraries and dependencies (CUDA, PyTorch, TensorFlow).

Preference will be given to candidates who can start immediately.

If you are interested in conducting research with us, please get in touch by forwarding your CV and academic transcript to Professor Saeid Nahavandi (saeid.nahavandi@deakin.edu.au).