

Graduate Research PhD Fellowship Opportunities

Micro/Nanophysics Research Laboratory, Monash University, Melbourne, Australia

Currently, postdoctorate funding and postgraduate stipends are available to support research students towards the award of a 3-year Ph.D degree on microfluidics and micro/nanoactuator research projects funded by the Australian Research Council, the National Health and Medical Research Council (Australia), NIH (USA), DARPA (USA), the CASS Foundation and NanoVic Australia.

In addition to these available stipends, postgraduate awards such as the Australian Postgraduate Awards, the Endeavour International Postgraduate Research Scholarships and several Monash University Postgraduate Scholarship schemes are also available to cover the fees for international students.

Candidates for the Ph.D programme are expected to have obtained an honours first degree (or equivalent, i.e., GPA >3.7/4.0) in Chemical/Mechanical/Biomedical Engineering, Physics, Chemistry, Applied Mathematics or a related discipline. Published peer-reviewed journal publications in relevant journals should be noted as they are a factor in the decision process.

At the Micro/NanoPhysics Research Laboratory, managed by Drs Friend and Yeo, fundamental and applied research is conducted to elucidate the physical mechanisms behind energy and momentum transport in structural and fluidic systems on the micro and nano scales and to exploit these phenomena for a variety of applications. The MicroNanophysics Research Laboratory (MNRL), founded in 2005 at Monash University in Melbourne, Australia, is a \$7.5 million clean room and biolab facility conducting fundamental and applied research on very high frequency acoustic microfluidics devices, with a current portfolio of \$1.75 million/year of research funding, 10 postgraduate students, three post-docs and two faculty within Monash University, Australia's largest university. The group has published in PRL, APL, Lab-on-a-Chip, and numerous other journals in this area.

Current activities in the laboratory center around micro/nano-electro-mechanical-systems (MEMS/NEMS) and micro/nanofluidics. Specific expertise in the MEMS/NEMS area include micromechatronics for portable integrated medical devices, novel application of ferroelectric materials for microactuators/microsensors and biocompatible neural interaction and osteogenesis, and high-power ultrasonics for acoustic levitation, nanoparticle generation, and other novel phenomena.

Those interested are invited to contact Assoc Prof James Friend or Dr Leslie Yeo for further information.

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