



Graduate Research PhD Fellowship Opportunities Micro/Nanophysics Research Laboratory, Monash University, Melbourne, Australia

Two postgraduate stipends are available to support research students towards the award of a three-year Ph.D degree on a large new NanoVic-funded project (www.nanovic.com.au) on point-of-care pulmonary drug formation and delivery.

In addition to the funding provided by NanoVic, 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 GPA >3.5/4.0) in Chemical, Mechanical, or Biomedical Engineering, Physics, Applied Medicine, Biochemistry 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 (mnrl.monash.edu), 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, with publications in high-impact international journals and conferences from work by the staff, including post-doctoral, PhD, and undergraduate students, and visitors. In the past year, the staff have obtained over \$5 million in funding via competitive grant-based funding for conducting research in these areas.

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 in this post are invited to contact Assoc Prof James Friend for further information.

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Web www.eng.monash.edu.au/mnrl

