

PhD in Advanced Heat Sink Materials

Qualification type: PhD

Location: Hamilton, New Zealand

Funding amount: NZ \$22,000 per annum plus domestic fees for a period of three years

Hours: Full Time

Closes: Until the position is filled

Project Description

Applicants are invited (NZ citizens, permanent residents and international students) for a fully-funded PhD studentship in the School of Engineering of the University of Waikato, in the field of powder metallurgy of advanced materials. The research project is funded by US Air Force, Basic Research of Asian Office of Aerospace R&D, will develop an advanced heat sink composite materials through powder metallurgy route, understand the microstructural evolution and factors affecting composite materials interface formation during the process, enabling increased control over interface quality through the optimisation of processing methods, and overcome the technical challenges for producing composites with high thermal conductivity.

Person Specification

Candidates should hold a First or Upper Second class honours degree in a relevant subject such as Materials Science, Materials Engineering, Mechanical Engineering or an associated discipline. Prior research experience, together with the ability to analyse, develop and solve open-ended research problems is desirable. Desirable qualifications also include knowledge of powder metallurgy, interface science, thermomechanical processing and materials characterisation, and a strong background in metallurgy and metals.

Please note that instead of the 'Research Proposal' we request a 'Statement of Research Interests'. Your statement should answer two questions: (i) why are you interested in the topic described above? (ii) what relevant experience do you have? Your statement should be brief: no more than 500 words or one side of A4 paper. In addition we would also like you to send a sample of your written work (e.g. excerpt of final year dissertation or published academic paper).

International students need to meet English language entry requirement of the University of Waikato.

Contact information

Further information and informal enquiries may be made to Dr. Fei Yang (fei.yang@waikato.ac.nz).

How to apply

Please send your CV and Statement of Research Interest along with a sample of your written work to Dr. Fei Yang (fei.yang@waikato.ac.nz).