Multiple PhD scholarships in the field of renewable energy technologies

Do you fancy working in a challenging and rewarding field? Do you want to make a difference while doing a PhD degree and have excellent skills in materials engineering, physics or chemistry? Don’t look any further. As the leaders of Auto CRC electrification program, the Institute for Superconducting and Electronic Materials (ISEM) at the University of Wollongong in collaboration with University of Technology, Sydney have several PhD scholarships on offer for outstanding domestic and international students. Auto CRC is a government supported corporate research centre, which is dedicated to facilitate advancements and new developments in the automotive industry in Australia. ISEM is a Flagship Research Strength at UOW offering outstanding research facilities, highly qualified academic staff members, located in the newly established UOW’s Innovation Campus that is just a stroll away from Pacific Ocean and sandy beaches. The scholarships will be awarded on a competitive application basis with stipend of $28,000/pa (tax free). Please note that some PhD programs will be co-supervised by personnel from both UOW and UTS.

Highlight PhD projects:
1) Li(MnCoNi)O2 system and high voltage cathode materials for Li-ion battery (UOW)
2) Silicon and metal oxide carbon composite anode for Li ion batteries (UOW);
3) Fabrication and characterization of graphene and graphene oxide composite materials for application in supercapacitors and Li ion batteries (UOW);
4) Waste heat recovery using thermoelectric power modules and generators (UOW);
5) Lithium ion battery management systems and packing (UOW);
6) Cost effective chalcogenides to boost performance of thermoelectric materials (UOW);
7) Design of new generation magnesium diboride superconductor rotor coil suitable for wind turbine generators (UOW);
8) Bifunctional catalysts for Li-air battery (UTS);
9) Hybrid, non-flammable ionic liquid – organic ionic electrolyte for LiBs (UTS);
10) A novel hybrid energy storage system for EV and HEV: analysis and experiment (UTS).

Applications are accepted until available PhD positions are filled, however, no later than 31st of December 2013. All potential candidates should send their CVs and a maximum of 2 page proposals addressing selected PhD topic to Dr. Germanas Peleckis at peleckis@uow.edu.au