PhD Scholarship

Detailed study of particle-laden turbulent flows in energy generation systems

An exciting opportunity to join a leading research team at the Centre for Energy Technology (CET) is available to high calibre engineering graduates with an interest in thermo-fluids and energy systems. This research will utilise advanced experimental techniques and state-of-the-art laser diagnostic tools to study particle-laden turbulent flows which are highly relevant to a range of industrial systems, from conventional pulverised coal burners to the latest solar thermal reactors. This experiment-based research program will be conducted in conjunction with national and international collaborators, including Purdue University, The University of New South Wales and the University of Tallinn.

Applicants should hold, or expect to hold, a good Honours degree (level 2B or higher) in any of the fields of Mechanical Engineering, Chemical Engineering. A background in energy, turbulence and/or reacting flows, or in optical techniques is an advantage. The project will fund a supplementary scholarship of up to $10,000 pa to holders of other scholarships (IPRS, APA, University of Adelaide, etc) and will consider offering full scholarships where applicable.

The Centre for Energy Technology is internationally recognised for its leading scientific research supporting the development of clean energy technologies to reduce emissions, increase efficiency and decrease the cost of energy. Our team is pledged to creating a culture of research excellence and delivering significant breakthroughs in the development of innovative technologies for a clean energy future. The CET laboratory houses advanced wind tunnel facilities and laser diagnostic tools with world-leading and unique capability that will be employed in the project.

Key CET Researchers on this project are:
Dr Timothy Lau, Research Associate
Professor Graham ‘Gus’ Nathan, Director CET.

For more information, or to apply, please contact Dr Timothy Lau at timothy.lau@adelaide.edu.au.