

Project description :Development of an optical fibre sensing system for detection and monitoring of localised strain concentrations on Defence platforms

Supervisors: Dr Paul Stoddart and Dr Claire Davis (DSTO)

An exciting opportunity exists for an outstanding graduate to work on a challenging PhD project at Swinburne University in collaboration with the Defence Science and Technology Organisation (DSTO). DSTO is the Australian Government's lead agency charged with applying science and technology to protect and defend Australia and its national interests.

The project will involve the development and validation of a low-cost self-diagnostic fibre-optic sensing system which can detect regions of localised strain concentration. The sensor will be validated on materials and structures for defence applications. The position will be located at Swinburne University but will require interaction with staff at DSTO's research laboratories in Melbourne and a multi-disciplinary research team based around Australia.

The successful applicant will have a first class honours degree or equivalent in Engineering, Physics or a related discipline. Post graduate qualifications or work experience in a research environment would be highly regarded. The project is suited to a highly-motivated person who enjoys problem solving and working in a team environment.