



Australian Government
Department of Defence
Defence Science and
Technology Organisation



BAE SYSTEMS

PhD Scholarship

To Study

The Effect of Atmospheric Scintillation on Optical Signal Noise

Optical signals propagating in a turbulent atmosphere experience scintillation effects which add noise to them. There is interest in understanding the nature of this noise and its effect on signal recognition and recovery, particularly in the ultra-violet and infra-red regions of the spectrum.

A unique opportunity exists to be part of a collaboration between the Defence Science and Technology Organisation (DSTO), BAE Systems and the University of South Australia working in the area of optical scintillation. We are looking for a highly motivated individual to undertake a PhD research program in this area. A person with good experimental and mathematical modelling skills is required. The project will involve work in laboratories at the University of South Australia and at DSTO and may involve field work.

Applicants for the position should have an Honours degree or Bachelors degree with relevant experience in physics, mathematics, electronic engineering, or a related field. Australian citizenship is required.

Stipend: Tax-free \$26,669 p.a. Allowances are also available for relocation and thesis preparation. There will be opportunities to attend national and international conferences relevant to the research.

Application Deadline: open until filled.

Contact: Professor John Thomas (Ph 61-8-8302-3053, e-mail John.Thomas@unisa.edu.au).