



Australian Government

Department of Defence
Defence Science and
Technology Organisation

DSTO

Graduate and Post-Graduate Opportunities

Operations Research

Defence Operations Research (OR) combines “hard” methodologies from traditional OR, mathematics and computer science, and qualitative “soft” approaches, such as management sciences, to solve highly complex problems that the Australian Defence Force (ADF) faces in the areas of: new operational concepts, major equipment acquisitions decisions, and support to deployed forces.

DSTO is principally looking for graduates and post-graduates with excellent academic achievement or experience in the following areas:

- ▶ Science (including Chemistry, Physics and Computer Science)
- ▶ Engineering (including software Engineering)
- ▶ Mathematics (Pure and Applied Mathematics, Statistics)
- ▶ And other relevant disciplines (i.e. Systems Analysis and Management Sciences)

Applicants should be prepared to extend their professional expertise in fields outside their specific academic training. DSTO supports OR skills development with on-the-job training, supplemented by formal coursework through the UNSW at ADFA. You will be expected to work closely with ADF personnel to understand the problems they face. This may include observing exercises, visiting ADF bases and units, attending ADF courses, and deploying with the ADF.

Current research projects

Support to Operations

DSTO has created a Support to Operations program specifically designed to give ADF commanders in the field ready access to research capabilities to enable them to solve operational problems. DSTO’s Operations Support Centre provides technical advice to resolve operational problems before, during and after operations. DSTO successfully supports the ADF via direct involvement of analysts in overseas operations.

Counter Improvised Explosive Devices (CIED)

Irregular warfare by insurgents requires counterinsurgency capabilities and the ability to counter improvised explosive devices. DSTO is responsible for the analysis and prioritising of science and technology input on CIED, in partnership with the ADF.

Joint Decision Support Centre (JDSC)

The JDSC is a state-of-art, networked and secure environment where sponsors, analysts, scientists and engineers can understand future system requirements, explore new concepts and evaluate solutions using simulations, visualisations and analytical tools. The JDSC also provides timely and cost effective support to senior policy and capability decision makers.

