



Australian Government

Department of Defence  
Defence Science and  
Technology Organisation

# DSTO

## Graduate and Post-Graduate Opportunities

### Information, Computing & Communications

DSTO is looking for the best and brightest - graduates and postgraduates with excellent academic achievement or experience in the following areas:

- ▶ Artificial Intelligence and Agents
- ▶ Information Technology
- ▶ Mathematical Computing
- ▶ Computing/ Programming
- ▶ Communications
- ▶ Signal Processing
- ▶ Software Engineering
- ▶ Telecommunications

### Current Research Projects

#### Cyber warfare

DSTO conducts research into cyber security to develop a range of highly advanced technologies that can be used to protect the nation's critical information infrastructure.

#### Advanced communications technologies

Modern telecommunications standards are employing complex schemes for maximising data throughput in wireless communications bands. Developers are becoming more aware of the benefits offered through the use of efficient modulation and coding schemes and the advantages made possible through the MIMO use of multiple antennas. Through the application of skills in high speed digital systems and signal processing, DSTO research is ensuring Defence maintains an edge in the exploitation of these advanced communications technologies.

### Information Operations (IO)

The IO Group addresses issues relating to maintaining a secure information infrastructure in the presence of varying threats, technology change, and underlying infrastructure modification. The areas currently under study are: Information Security, Defensive Cyber Warfare, Digital Forensics, Integrated Security Infrastructure, Disruptive technologies, Formal modelling, and Network Survivability under directed threats.

#### Artificial intelligence

DSTO is a world leader in the use of intelligent agents to represent human decision-making processes in combat simulation software. This technology enables DSTO to assess the effectiveness of ADF platforms under simulated combat conditions. These assessments are then used as a basis for decisions about current capabilities and priorities for future development.



DSTO



Science and Technology for a Secure World

[www.dsto.defence.gov.au](http://www.dsto.defence.gov.au)