



POSITION DESCRIPTION

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| Position Title: | Maritime RF Countermeasures Engineer/Scientist |
| Position Reference Number: | PDCEWD005 |
| Division | Cyber and Electronic Warfare Division |
| Position Classification: | S&T 3-4 |
| Position Location: | Edinburgh |
| Security Level: | NV1 |
| Minimum Academic Qualification: | PhD |
| Enquiries: | Anthony Schellhase, anthony.schellhase@dst.defence.gov.au , 08 7389 6729 |

Academic Disciplines

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| Aerospace/ Aeronautical Engineering, Naval Architecture | Chemical, Radiological, Biological, Food sciences | Materials Science |
| Computer Sciences, IT, Software Engineering, Telecommunications | Mathematics and physics | Psychology and Social Sciences |
| Mechanical and Mechatronic Engineering (including robotics) | Electronic/ Electrical Engineering | Other |

Position Overview

The Maritime Radio Frequency (RF) Countermeasures Engineer/Scientist, under limited guidance or direction, will be responsible for undertaking research, developing software, performing simulations, and conducting science and technology (S&T) investigations and experimentation related to maritime RF electronic attack (EA). Working within a small team of scientists and engineers, the Maritime RF Countermeasures Engineer/Scientist will engage with internal and external stakeholders to determine requirements and achieve outcomes across several programs and projects.

The successful candidate will have knowledge and experience with one or more of the following:

- digital and/or RF techniques and technologies;
- modelling, simulation, analysis and experimentation;
- software tools such as MATLAB, C/C++; &
- machine learning techniques related to the collection and processing of experiment data.

Position Duties

- Developing software in support of experimental and operational maritime RF EA trials including simulations, hardware interfacing and control, data processing, the implementation of machine learning algorithms, and visualisation of experiment data.
- Preparation of equipment for experimentation including calibration, programming and interfacing as well as participation in experiments including domestic and international hardware-in-the-loop and sea/flight testing activities.
- Research into novel RF EA techniques and the implementation of these techniques into operational systems for the ADF. Growing domestic RF EA S&T capabilities as well as contributing to larger international projects.
- Analysis and presentation of results of activities and tasks to internal and external stakeholders and the reporting of outcomes in the form of client reports and scientific papers.

Other Requirements

Work outdoors, requirement to wear personal protective equipment (PPE), exposure to non-ionising radiation.