



Multiple Research ICT Positions

Position Title:	Research Network ECRRSD001 Cloud and Storage Engineers ECRRSD012b Research Database Administrators ECRRSD003
Division	Research Services Division
Position Classification:	S&T3-4 (APS4/5-6)
Position Location:	Edinburgh SA, or Fisherman's Bend VIC
Security Level:	NV2 / PV
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Academic Disciplines

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

DST's Information Management & Technology Branches (IM&T) provide specialised and advanced scientific computing solutions to keep DST at the forefront of Australian Defence innovation. They provide valuable research ICT services to Defence and National Security operations. IM&T are an integrated, multidisciplinary, e-Research capability, fostering a culture of excellence and strong client partnerships dedicated to providing services to meet DST research needs. IM&T are seeking a skilled and enthusiastic ICT Professionals looking to develop a career in:

- **ECRRSD001 Research Network Engineering:** The deployment, operation, monitoring and maintenance of complex, distributed, enterprise-level research networks and specialised research facilities (inc. storage, networks, video conferencing and data centre operations);
- **ECRRSD003 Research Database Administration:** Database and data management for SQL and NOSQL environments, DST secure private cloud, scientific data repositories and specialised research applications;
- **ECRRSD012b Research ICT Storage Engineering:** Management of Research ICT Storage and Backups, and deploying, operating, monitoring and maintaining enterprise storage ICT solutions in a complex distributed research ICT environment, contributing to the resilience and innovations of storage requirements;
- **ECRRSD012b Research Cloud Engineering:** Management of computer systems for advanced scientific computing and research computing facilities, including a new on-premise cloud capability, providing virtualised services to Researchers vital in translating the needs of Researchers into technical solutions.

For all positions, successful candidates will develop and apply expertise in our specialised fields of research ICT and the broader application of e-Research domain knowledge. All positions collaborate and partner with DST researchers to understand their priorities and to develop solutions to meet their scientific needs. They will use knowledge of or experience with contemporary service management practices such as Information Technology Infrastructure Library (ITIL). They will contribute to complex eResearch activities including researching, designing, developing, testing and installing solutions for defence research. They will employ professional judgement and initiative in recommending eResearch solutions to science problems in a security constrained environment. They will provide advanced support and troubleshooting for managed research projects, and interact and coordinate with vendors, suppliers, distributors and contract consultants.

This position is a Skills Framework for the Information Age (SFIA) level 4 'Enable'. For more information about SFIA, please visit the website: <https://www.sfia-online.org/en>



POSITION DESCRIPTION

Other Requirements

Positions may be exposed to data centre hazards, personal protection equipment will be provided. Some interstate travel and participation on scientific research trials may be required. Positions work as part of a dynamic team and there may be some peaks and troughs in the workload.

Position Duties

Research Network Engineers will:

- Lead and/or contribute to the day to day management and services for contemporary, highly distributed advance computing networks, including CISCO and Juniper network infrastructure and Operating System (switches, routers, firewalls, IOS), WAN topologies and configuration, routing protocols and encryption.
- Diagnose research network issues from a scientific requirements perspective, implement solutions.

Research ICT Storage Engineers will:

- Lead and/or contribute to the day to day management and support of contemporary, highly distributed enterprise-level research data, ICT storage and backup systems, including NetApp, Veritas NetBackup, SAN networking technologies including Fibre Channel (Brocade) and CIFS/NFS network filesystems, and storage network delivery technologies such as software defined storage.
- Diagnose research ICT hardware issues from a scientific requirements perspective, implement solutions.

Research Cloud Engineers will:

- Manage and/or maintain VMware virtualised environment, virtualised storage, servers, and tools across separate network security classifications. Support the environment from Service Operations perspective (incident/problem management, performance management, capacity planning, etc.).
- Analyse platform level changes, monitor impact, and recommend and provide enhancements to existing systems and services and/or appropriate technical solutions to resolve.

Research Database Administrators will:

- Apply best practices, processes and adopted standards for database design, database configuration and scripting configuration; integrate 3rd party and research applications with database environments; and design, test, and implement database triggers, stored procedures, scripts and packages.
- Monitor and/or manage the database environment for high availability, performance tuning, capacity planning and security; ensure database environments are in a recoverable state through suitable backup strategies.

APPLY [HERE](#)*

***PLEASE NOTE:**

Applications are welcomed from candidates with **relevant computing qualifications** (ie, certificate, diploma, undergraduate, or post-graduate degrees). Please note, to be eligible, **candidates will require 2 or more years demonstrated industry experience**, and some positions require industry accreditations.

Applications are to be submitted through the **DST “Early Career Researcher”** application portal. As an ICT professional, you will work alongside DST researchers and contribute towards DST’s scientific innovations and research outcomes.