

Position Title	SRCNet Product Manager
Classification	Level 8
School/Division	Office of the Deputy Vice Chancellor (Research)
Centre/Section	Australian SKA Regional Centre (AusSRC)
Supervisor Title	Director, AusSRC
Supervisor Position Number	319016
Position Number	322109

Your work area

The SKA Observatory (SKAO) is an intergovernmental organisation tasked with building and operating the world's largest radio telescopes. In order to fully exploit the scientific output of the immense amount of data flowing from the telescopes, the SKAO is working with science communities across the world through SKA Regional Centres (SRCs), which are nationally lead hubs that form the basis of a global compute and science support infrastructure, the SRC Network (SRCNet).

AusSRC is Australia's portion of this international network and has been funded – by the Australian Government through the Department of Industry, Science, and Resources (DISR) – \$63 million from FY 2022/23 to 2030/31, to establish and build capability to support the Australian and international SKA science communities, thereby ushering in the next era of astronomical discovery and advanced data processing.

The Commonwealth Scientific and Industrial Research Organisation (CSIRO), Curtin University, Pawsey Supercomputing Research Centre, and The University of Western Australia (UWA) are the four foundation partners formally collaborating, through an unincorporated joint venture agreement, to support and develop the AusSRC into a long-term national facility.

Reporting structure

The role of SRCNet Product Manager will be employed by UWA, line managed by the AusSRC Director. Functional management of day-to-day activities of this role will be the responsibility of the AusSRC Head of Software Development.

Your role

As the appointee you will, under minimal direction, take a lead role in driving the SRCNet program towards achieving its strategic vision. You will be responsible for working collaboratively with other SRCNet Product Managers within the SRCNet program lead team to develop and maintain the near and longer-term roadmaps for SRC software development products. This will involve understanding how different products fit together and demonstrating leadership in supporting discussions with stakeholders about overall prioritisation of products and ensuring that the Scaled Agile Framework (SAFe®) teams deliver value to the SRCNet project by specifying and prioritising features and capabilities.

You will be hosted by and contribute to AusSRC development and the SRCNet more broadly through the collaboration, networking and communicating with the whole SRCNet program. As such, you will coordinate with international stakeholders and development teams to define work, assess and

accept work when it is completed, and be an expert focal point for regional development teams by providing expertise and guidance in the domain of high-performance data processing software and systems.

You will support colleagues in a highly collaborative program team, in which ideas and input from a broad, culturally-diverse body of contributors can be valued.

Your key responsibilities

Demonstrate leadership in supporting the delivery of an SRCNet prototype with integrated functionality for data management and data processing of SKA data products at individual sites.

Ensure the interoperability between sites is supported by centralised coordination services (e.g. distributed data management, software distribution, authentication services, compute workload management).

Take a lead role in the development and communication of the vision, strategy, and roadmaps for the SRCNet.

Within the quarterly software development cycle, manage the development and prioritisation of the SRCNet product backlog,

Plan and deliver a solution for the SRC Science Platform development by building functionality for users, aligned with SKAO Science Operations schedules,

Deliver the SRC distributed data management solution, including data discovery, controlled access, and ingestion from the SKAO into the SRCNet,

Explore opportunities for alignment between SKAO software and SRC data processing software.

Other duties as directed.

Your specific work capabilities (selection criteria)

Relevant postgraduate qualification or equivalent experience in a professional scientific operational capacity.

Extensive experience with large data set computing; high-performance computing and cloud experience, in particular understanding the underlying technologies, implementation trade-offs and approaches to multi-node job execution.

Extensive experience managing software development activities in a scientific environment; in particular, knowledge of user software needs and testing capabilities; understanding how workflows map to (or characterise) compute resource requirements would also be an advantage.

Ability to resolve multifaceted and complex problems, develop coherent solutions and manage workloads and targets in a dynamic and collaborative environment.

Ability to build effective working relationships, listen to and influence stakeholders from a variety of cultures, and quickly acquire and communicate system knowledge across a broad range of areas.

Understanding of Agile practices, including the importance of customer focus and a pragmatic approach to decision making.

Scaled Agile Framework (SAFe®) Product Owner / Product Manager accreditation is desirable.

Experience or knowledge of working with radio astronomy data is desirable.

Special requirements (selection criteria)

Occasional intrastate, interstate, and overseas travel will be required.

The ability to work across time zones and flexibility in working hours to accommodate earlier or later meetings.

Compliance

Ensure you are aware of and comply with legislation and University policy relevant to the duties undertaken, including:

The University's Code of Conduct hr.uwa.edu.au/policies/policies/conduct/code/conduct

Inclusion and Diversity web.uwa.edu.au/inclusion-diversity

Safety, health and wellbeing safety.uwa.edu.au/