THE UNIVERSITY OF WESTERN AUSTRALIA

POSITION DESCRIPTION

Position Title	Applications Specialist, Electron Microprobe
Classification	Level 8
School/Division	Office of the Deputy Vice-Chancellor (Research)
Centre/Section	Centre for Microscopy, Characterisation and Analysis
Supervisor Title	Associate Professor
Supervisor Position Number	301412
Position Number	821300

Your work area

The University of Western Australia is a research-intensive institution with goals that include supporting influential research and the training of students and staff in the relevant skills. Its research and development infrastructure are key to supporting these goals. In that context, the CMCA is the University's microscopy, characterisation and analysis core facility. Its goal is to facilitate and provide research excellence through a focus on world-class facilities matched with expertise and a concept-to-publication user pathway to meet the characterisation requirements of researchers and industry through excellence in training, measurement and analysis.

The centre comprises about 30 academic, research, technical and administrative staff supporting an exceptionally diverse range of instrument platforms including electron microscopy and microanalysis, secondary ion mass spectrometry, scanning probe microscopy, X-ray microscopy, nuclear magnetic resonance spectroscopy, mass spectrometry, cytometry and optical microscopy. The CMCA operates on three main sites and supports research in all areas, particularly in engineering, science and health.

Reporting structure

Reports to: Associate Professor

Your role

As the appointee you will, under broad direction, work independently and provide a high level of multi-disciplinary electron microscopy expertise to support academic staff, technical staff, students and external stakeholders with their research pursuits.

You will provide training, advice and support in all aspects of EPMA workflows, from sample preparation through to data acquisition and analysis.

You will also participate more broadly in the activities of the electron microscopy capability.

Your key responsibilities

- Manage the physical resources and operations of the EPMA capability and provide advice to leaders regarding maintenance, upgrades, replacements and on operational parameters that may impact on the achieving research outcomes.
- Provide technical expertise to researchers in all areas of EPMA workflows.

- Responsible for the quality assurance of the EPMA capability – overseeing quality control procedures in the acquisition, processing and analysis/interpretation by researchers.
- Apply expert and in-depth knowledge base to provide authoritative and strategic advice to researchers with the planning and design of research projects.
- Provide support to the wider operations and needs of the research community using routine SEM.
- Provide support in the preparation of the budget and monitor expenditure on an ongoing basis.
- Undertake research to prepare reports, background papers to contribute to business cases/funding applications for additional resources, such as large equipment/instrumentation purchases.
- Establish and maintain a responsive, high service-oriented approach for all operations.
- Develop and maintain a high level of understanding of the current trends in research and new technologies in line with strategic objectives.
- Initiate and manage the development and implementation of safe systems of work for researchers relative to EPMA workflows.
- Ensure all research activities are within and promote established safe systems of work at UWA.
- Other duties as directed.

Your specific work capabilities (selection criteria)

- Relevant tertiary or demonstrated equivalent competency.
- Advanced knowledge and technical experience in sample preparation relevant to EPMA.
- Advanced knowledge of EPMA workflows, and their applications within research.
- Extensive experience engaging and supporting diverse research programs.
- Excellent written and verbal communication skills, including the ability to consult and negotiate with a broad range of stakeholders.
- Excellent organisational skills and demonstrated ability to set and deal with conflicting priorities to meet deadlines.
- Proficiency in a range of computing skills including word processing, spreadsheets, databases, email on online/internet-based systems.
- Demonstrated experience in the management, processing and analysis.
- Ability to work independently and show initiative.
- Demonstrated knowledge of relevant policies and procedures for the administration of infrastructure and Occupational Health & Safety.

Special requirements (selection criteria)

- Able to fit the physical requirements of the position.
- Some after-hours work may be required.
- Occasional travel may be required.

Compliance

Ensure you are aware of and comply with legislation and University policies.

To learn more about the Code of Conduct, see Code of Conduct.

To learn more about Diversity, Equity and Inclusion, see Diversity, Equity and Inclusion.

To learn more about Safety, Health and Wellbeing, see Safety, Health and Wellbeing.