



Position Description

Position Title:	Senior Research Fellow (Cytometry)
Position Classification:	Level C
Position Number:	317906
Faculty/Office:	Research Infrastructure Centres
School/Division:	Centre for Microscopy, Characterisation and Analysis
Centre/Section:	
Supervisor Title:	Associate Professor
Supervisor Position Number:	317891

Your work area

The Centre for Microscopy, Characterisation and Analysis (CMCA) comprises ~35 academic, research, technical and administrative staff supporting a diverse range of instrument platforms including secondary ion mass spectrometry (SIMS), electron microscopy and microanalysis, optical, confocal, and multiphoton microscopy, flow cytometry, NMR, X-ray diffraction, biological and molecular mass spectrometry, small animal imaging, scanning probe microscopy, and micro-CT. The CMCA's mission is to enable research excellence by providing access to world-class scientific infrastructure and expertise in characterisation to researchers and industry.

The CMCA Cytometry Core is one of the largest cytometry facilities in WA, providing researchers with access to high-end instrumentation, expertise and training. The Core houses state-of-the-art instrumentation for flow cytometry (BD Canto II, BD LSR Fortessa, Luminex 200, BD Calibur), cell sorting (BD Influx, BD Melody), mass cytometry (Fluidigm Helios), and genomics (10x Chromium Genomics System). These instruments are mostly located in CMCA laboratories in the Perkins North Building on the Queen Elizabeth II (QEII) medical campus, with other instruments located on the main UWA Crawley campus.

Reporting Structure

Reports to: Associate Professor

Your role

As an expert in various aspects of cytometry and cell sorting, you will provide academic leadership to the UWA's Cytometry Core to enable high-impact biomedical and environmental bioscience research. You will be responsible for the day-to-day operation of the Cytometry Core, line-managing professional staff, and overseeing the coordination of user training and maintenance of the facility. You will take responsibility for the quality of data produced in the laboratory, and oversee quality control procedures in the acquisition, processing and interpretation of data by researchers and support staff in your team. You will initiate and conduct collaborative research with a broad range of researchers accessing the facilities and you will be encouraged to develop your own research in the development and/or application of cytometry and related techniques. You will assist the management team of the CMCA, providing advice on cytometry and liaising with stakeholders at the local and national level. As an academic, you will perform a range of academic activities, including independent and collaborative research, teaching and training, and student supervision.

Your Key responsibilities

Take responsibility for the management of UWA's Cytometry Core as an open-access user facility, including coordination of routine maintenance, troubleshooting and repair, and monitoring the scientific quality, outputs and usage of the facility;

Provide academic and technical expertise to users in all areas of cytometry, including experiment design, sample prep, data acquisition, statistical evaluation and interpretation;

Initiate and undertake an independent research program utilising cytometry and related techniques and engage in collaborative research projects within the University and across the wider research community;

Direct and supervise postgraduate research projects, and contribute to the Centre's teaching and training programs for researchers wishing to access the Cytometry Core;

Take responsibility for the quality of data produced in the facility, and oversee quality control procedures in the acquisition, processing and interpretation of data by researchers and support staff in your team;

Contribute to the management of the CMCA by advising the management team on aspects of cytometry;

Lead the Cytometry Technique Group, and engage in strategic planning, future upgrades and acquisitions;

Represent the facility locally, nationally and internationally, and be the main point of contact for researchers and stakeholders who are supported by the facility's activities;

Promote the Centre's facilities and help to coordinate its national roles engaging with stakeholders and leading researchers to ensure outstanding collaborative outcomes;

Coordinate or contribute to competitive funding applications, including applications for new instrumentation and ancillary facilities;

Other duties as directed

Your specific work capabilities (selection criteria)

PhD in the relevant subject area (Life Sciences - Biochemistry, Biotechnology, Biology, Immunology or related field);

Advanced knowledge and extensive experience in flow cytometry and cell sorting, in a bio-medical research setting;

Ability and willingness to direct and maintain a multi-user cytometry facility and supervise staff;

Demonstrated ability to engage in and support diverse research programs in cytometry;

Demonstrated experience working under a quality management system and operating in a physical containment level 2 (PC2) environment;

Excellent written and verbal communication skills, and the ability to work effectively as part of a dynamic, multidisciplinary team;

Excellent organisational skills and demonstrated ability to set priorities to meet deadlines

Special Requirements (selection criteria)

There are no special requirements

Compliance

Workplace Health & Safety

All supervising staff are required to undertake effective measures to ensure compliance with the Occupational Safety and Health Act 1984 and related University requirements (including Safety, Health and Wellbeing Objectives and Targets).

All staff must comply with requirements of the Occupational Safety and Health Act and all reasonable directives given in relation to health and safety at work, to ensure compliance with University and Legislative health and safety requirements. Details of the safety obligations can be accessed at <http://www.safety.uwa.edu.au>

Inclusion & Diversity

All staff members are required to comply with the University's Code of Ethics, Code of Conduct and Inclusion and Diversity principles. Details of the University policies on these can be accessed at <http://www.hr.uwa.edu.au/policies/policies/conduct/code>, <http://www.web.uwa.edu.au/inclusion-diversity>.