



POSITION DESCRIPTION

School of Computing and Information Systems
Faculty of Engineering and Information Technology

Technical Research Support - Digital The ARC Digital Bioprocess Development Hub

POSITION NO	0057789
CLASSIFICATION	UOM 4
SALARY	\$76,901 - \$81,615 pa (pro rata for part-time)
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Full Time or Part time Applications for part-time, full-time or other flexible working arrangements will be welcomed and will be fully considered subject to meeting the inherent requirements of the position
BASIS OF EMPLOYMENT	Fixed term position available for up to three years, with possible extension.
OTHER BENEFITS	https://about.unimelb.edu.au/careers/staff-benefits
HOW TO APPLY	Online applications are preferred. Go to http://about.unimelb.edu.au/careers , select the relevant option ('Current Opportunities' or 'Jobs available to current staff'), then find the position by title or number.
CONTACT FOR ENQUIRIES ONLY	Professor Uwe Aickelin (Computing and Information Systems) email uwe.aickelin@unimelb.edu.au <i>Please do not send your application to these contacts</i>

For information about working for the University of Melbourne, visit our website:
about.unimelb.edu.au/careers

Acknowledgement of Country

The University of Melbourne acknowledges the Traditional Owners of country throughout Australia. The University recognises the unique place held by Aboriginal and Torres Strait Islander peoples as the original custodians of country and their continued connection to the land, waterways, songlines and culture. The University respects all Aboriginal and Torres Strait Islander People and warmly embrace those students, staff, Elders and collaborators who identify as First Nations.

Commitment to Diversity and Inclusion

The Faculty of Engineering and Information Technology (FEIT) is committed to creating a diverse and inclusive environment that welcomes and values all people. We recognise that diversity is essential in contributing to the success of FEIT. Women, Aboriginal and Torres Strait Islanders, the LGBTIQ+ community, people living with disability and those from a culturally and linguistically diverse background, are strongly encouraged to apply. Those seeking support in submitting an application are welcome to contact the Faculty HR team at feit-hr@unimelb.edu.au

Position Summary

The ARC Hub for Digital Bioprocess Development is part of the Industrial Transformation Research Hub grant scheme (ITRH Scheme) and aims to assist the Biopharma industry by increasing digital innovation, productivity and competitiveness. The Hub will engage an interdisciplinary team of engineers, scientists and computing specialists to develop digitally integrated advanced manufacturing processes and a platform for industry adoption. The program will address key bioprocessing research challenges and develop new process and digital models that can predict and optimise manufacturing processes, resulting in greater yields, faster and more flexible processes and enhanced product stability. The Hub will transform biopharmaceutical manufacturing and unlock growth opportunities to forge an internationally competitive Australian Biopharma sector.

The ARC Hub for Digital Bioprocess Development is a collaborative program of significant scope and scale. It will draw together expertise from The University of Melbourne, University of Technology Sydney and RMIT University, together with CSL Innovation, Patheon and Pall and three leading international universities, forming a substantial team. The Hub will have the critical mass of researchers and expertise needed to address key biopharma research challenges, contributing to industry outcomes and positioning Australian Biopharma manufacturing to benefit from Industry 4.0.

The program will include the following position:

Technical Research Support (Digital RA3) (up to 3-year appointment):

RA3 will be employed to undertake the significant amount of routine computer coding and development that will be required over the course of the DBD Hub activities within the digital research stream. This will include the preparation of data, the development of workflows in Domino and development of software prototypes.

The Technical Research Support role will provide support to postdoctoral and PhD students within the DBD Hub and will be members of the team, assisting researchers with the preparation and more routine aspects of data analysis.

1. Selection Criteria

1.1 ESSENTIAL

- ▶ Completion of a tertiary level qualification with relevant work-related experience and/or an equivalent combination of relevant experience and/or education/ training.
Specifically:
 - Technical Research Support - computer science, data science or software engineering.
- ▶ Evidence of:
 - Technical Research Support - strong coding and software skills.
- ▶ Experience and ability to prioritise tasks and manage competing priorities to achieve project objectives within timelines.
- ▶ Excellent record keeping skills.
- ▶ Excellent written and verbal communication skills, demonstrated by presentation of research results at conferences, internal forums and manuscript submissions.

- ▶ Excellent interpersonal skills, including an ability to interact with internal and external stakeholders (academic, administrative and support staff) in a courteous and effective manner.

1.2 DESIRABLE

RA3:

- ▶ Experience interacting with industry partners.
 - Experience in data preparation, cleansing, and analysis using Python.
Experience in algorithms development and knowledge of Domino including SQL and R and to flexibly work with existing data processing pipelines and systems currently used within industry.

1.3 KEY RESPONSIBILITIES

- ▶ Maintain accurate and detailed records of all experiments conducted, assist in the preparation of data for analysis and be able to effectively communicate outcomes to project staff as required.
- ▶ Participate in preparation of manuscripts for publication in peer-reviewed journals.
- ▶ Liaise effectively with internal and external collaborators and stakeholders.
- ▶ Undertake Occupational Health and Safety responsibilities as outlined in Section 3.

1.4 OTHER JOB RELATED INFORMATION

- ▶ This position requires the incumbent to hold a current and valid Working with Children Check.
- ▶ Occasional work out of ordinary hours, travel, and work at other sites.

2. *Equal Opportunity, Diversity and Inclusion*

The University is an equal opportunity employer and is committed to providing a workplace free from all forms of unlawful discrimination, harassment, bullying, vilification and victimisation. The University makes decisions on employment, promotion, and reward on the basis of merit.

The University is committed to all aspects of equal opportunity, diversity and inclusion in the workplace and to providing all staff, students, contractors, honorary appointees, volunteers and visitors with a safe, respectful and rewarding environment free from all forms of unlawful discrimination, harassment, vilification and victimisation. This commitment is set out in the Advancing Melbourne strategy that addresses diversity and inclusion, equal employment opportunity, discrimination, sexual harassment, bullying and appropriate workplace behaviour. All staff are required to comply with all University policies.

The University values diversity because we recognise that the differences in our people's age, race, ethnicity, culture, gender, nationality, sexual orientation, physical ability and background bring richness to our work environment. Consequently, the People Strategy sets out the strategic aim to drive diversity and inclusion across the University to create

an environment where the compounding benefits of a diverse workforce are recognised as vital in our continuous desire to strive for excellence and reach the targets of Advancing Melbourne.

All FEIT employees are required to behave in a manner that creates; supports and encourages an inclusive and safe work environment for all.

<https://eng.unimelb.edu.au/diversity>

3. Occupational Health and Safety (OHS)

All staff are required to take reasonable care for their own health and safety and that of other personnel who may be affected by their conduct.

OHS responsibilities applicable to positions are published at:

<https://safety.unimelb.edu.au/people/community/responsibilities-of-personnel>

These include general staff responsibilities and those additional responsibilities that apply for Managers and Supervisors and other Personnel.

4. Other Information

4.1 SCHOOL OF COMPUTING AND INFORMATION SYSTEMS

The School of Computing & Information Systems (CIS) undertakes research and teaching across a range of information technology disciplines including Software Engineering, Information Systems, and Computer Science. CIS is the most highly ranked School of Computing and Information Systems in Australia according to all major rankings (THE, QS, ARWU). It offers a comprehensive range of IT and IS courses at all levels, including offerings in science, engineering, and business, and is at the forefront of computing research in Australia and internationally with close links to major computing research initiatives, including Melbourne Bioinformatics, CSL, The Cremorne Digital Hub and CSIRO's DATA61.

The School's aim is to attract and retain outstanding staff available in order to maintain a leading research and teaching. We have an existing highly successful research team in the area of the appointment, a large number of PhD students, and a substantial cohort of graduate students in our coursework Masters programs.

To find out more about CIS, visit: <http://www.cis.unimelb.edu.au/>

4.2 FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY

The Faculty of Engineering and Information Technology (FEIT) has been the leading Australian provider of engineering and IT education and research for over 150 years. We are a multidisciplinary School organised into three key areas; Computing and Information Systems (CIS), Chemical and Biomedical Engineering (CBE) and Electrical, Mechanical and Infrastructure Engineering (EMI). FEIT continues to attract top staff and students with a global reputation and has a commitment to knowledge for the betterment of society.

FEIT has never been better positioned as a global leader, anchored in the dynamic Asia Pacific region, creating and curating knowledge to address some of the world's biggest

challenges. Through our students and our relationships with communities, we can not only respond to society's needs but anticipate and create engineering and IT solutions for the future.

<https://eng.unimelb.edu.au/>

<https://eng.unimelb.edu.au/about/join-feit>

Our ten-year strategy, FEIT 2025, is our School's commitment to bring to life the University-wide strategy Advancing Melbourne and reinforce the University of Melbourne's position as one of the best in the world.

To achieve our ambitions, we will continue to build new infrastructure to enable our teaching, research and engagement; we continue to recruit outstanding people from around the world; and we continue to attract high-quality students from across the globe who are at the heart of our enterprise.

<https://eng.unimelb.edu.au/about/feit-2025>

4.3 THE UNIVERSITY OF MELBOURNE

Established in 1853, the University of Melbourne is a leading international university with a tradition of excellence in teaching and research. The main campus in Parkville is recognised as the hub of Australia's premier knowledge precinct comprising eight hospitals, many leading research institutes and a wide-range of knowledge-based industries. With outstanding performance in international rankings, the University is at the forefront of higher education in the Asia-Pacific region and the world.

The University employs people of outstanding calibre and offers a unique environment where staff are valued and rewarded.

Further information about working at The University of Melbourne is available at <http://about.unimelb.edu.au/careers>

4.4 CSL

CSL Limited is a company that fosters a work culture emphasising Superior Performance, Innovation, Integrity, Collaboration and Patient Focus with a commitment to support, train and grow its people. As a genuine leader in the biopharmaceutical industry, CSL is a multinational ASX Listed Company that is actively growing its Australian based manufacturing operations to support global growth. CSL develops, manufactures and markets products to treat and prevent serious human medical conditions and is globally one of the largest manufacturers of plasma-derived therapies.

Further information about CSL is available at <https://www.csl.com/>