Position description

Federation
UNIVERSITY · AUSTRALIA

Position title:	**Associate Professor, Data Science**
School/Directorate/VCO:	**School of Science, Engineering and Information Technology**
Campus:	**Mt Helen Campus. Travel between campuses will be required.**
Classification:	**Within the Academic Level D range**
Employment mode:	**Fixed-term appointment**
Probationary period:	**This appointment is offered subject to the successful completion of a probationary period.**
Time fraction:	**Full-time**
Recruitment number:	**849106**
Further information from:	**Professor Steve Wilcox, Deputy Dean, Science and Engineering** **Telephone: (03) 51226176** **E-mail: steve.wilcox@federation.edu.au**
Position description approved by:	**Professor Syed Islam, Dean, School of Science, Engineering and Information Technology** **Professor Andy Smith, Deputy Vice-Chancellor (Academic)**

This position description is agreed to by:

_____   _____   _____
Employee name   Signature   Date

The University reserves the right to invite applications and to make no appointment.

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Background

The School of Science, Engineering and Information Technology offers Bachelor degrees in Engineering (Civil, Mechanical, Mechatronics and Mining), Mathematics, Information Technology and Science (primarily Metallurgy and Geology).

The School is in the process of establishing a range of programs in Electrical and Information Engineering, Engineering Project Management, Financial Mathematics, Renewable Energy Electrical Power Systems (New Energy Technologies), Data Science and Industrial Engineering and has an almost unique capability in Australia in that it delivers programmes in Geology, Mining, Engineering and Mineral Processing that supports the strong resources sector. The School also offers a number of Graduate Certificate, Graduate Diploma and Masters by coursework programmes, with Maintenance and Reliability Engineering being particularly well known internationally. These programmes are offered on campus and at a number of locations throughout Australia and overseas.

Research and consultancy forms a major aspect of the School's activities with numerous partnerships established with local, state, national and international organisations. Currently there are over 100 doctoral, masters and honours students enrolled.

Position summary

Appropriate to a level D appointment, the Associate Professor, Data Science will be expected to:

- provide leadership in the development and delivery of applied mathematics and data science related programs and courses at undergraduate and graduate levels;
- contribute to the School's research program through the pursuit of research; and
- contribute to the School's administrative functions in a manner appropriate to the level of appointment.

Key responsibilities

1. Making a significant contribution to developing, teaching, coordinating, and moderating courses in data science and mathematics at undergraduate and graduate levels.

2. Provide leadership for the development, implementation and monitoring of student retention and success strategies in data science and mathematics.

3. Undertake teaching and assessment of undergraduate and postgraduate students within the area of data science and mathematics.

4. Participate in team projects and various committee meetings as required.

5. Supervise students undertaking project courses, honours programs and research higher degrees.

6. Making a significant contribution to the administrative functions of the School.

7. Making an outstanding contribution to research activity within the School.

8. Promote, where appropriate, research and consultancy with outside bodies.

9. Playing a key leadership role in the teaching, research and administrative functions within the School and the University.

10. Other responsibilities applicable to a Level D academic under current Minimum Standards for Academic Levels as assigned by the Dean and Head of School/Deputy Dean.

11. Reflect and embed the University's strategic purpose, priorities and goals when exercising the responsibilities of this position. For a more complete understanding and further information please access the Strategic Plan at: https://federation.edu.au/about-us/our-university/strategic-plan.

12. Undertake the responsibilities of the position adhering to:

- The Staff and Child Safe Codes of Conduct and Conflict of Interest Policy and Procedure;
- Equal Opportunity and anti-discrimination legislation and requirements;
- the requirements for the inclusion of people with disabilities in work and study;
- Occupational Health and Safety (OH&S) legislation and requirements; and
- Public Records Office of Victoria (PROV) legislation.

Level of responsibility

The Associate Professor, Data Science will be expected to work independently in the conduct of teaching and research activities, assume a leadership role within the School and the University in one or more of the areas of teaching, research and administration and assume a broad leadership role across a range of School functions.

Training and qualifications

A doctoral qualification will be required.

The Associate Professor, Data Science will also have completed the Graduate Certificate in Education (Tertiary Teaching) or equivalent. If the Associate Professor, Data Science does not hold this qualification, they will be required to complete the qualification through the University's Centre for Learning Innovation and Professional Practice upon commencement of their employment (for further information, go to: https://federation.edu.au/staff/learning-and-teaching/professional-development/award-programs/graduate-certificate-in-education-tertiary-teaching-gcett).

Position/Organisational relationships

The Associate Professor, Data Science will work under the broad direction of the Dean and Head of School/Deputy Dean, and work as part of the School's team of academic and administrative staff.

Key selection criteria

Applicants must demonstrate they are able to undertake the inherent responsibilities of the position as contained in the position description and are able to meet the following Key Selection Criteria:

1. A doctoral qualification.

2. Graduate Certificate in Education (Tertiary Teaching) or equivalent or willingness and commitment to complete this qualification upon commencement of employment.

3. Substantial University administrative experience, including organisational and administrative abilities necessary for coordination and administration of courses, and other administrative duties.

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4. Demonstrated commitment to and enthusiasm for learning and teaching, and a distinguished teaching record.

5. A national level record of achievement in research and a demonstrated capacity to play a leading role in the School's research program and proven ability to attract competitive funding.

6. A significant record of achievement in the supervision of honours, masters and doctoral students.

7. Demonstrated ability to work collaboratively and contribute at an individual level to the achievement of organisational goals and objectives.

8. Demonstrated interpersonal, oral and written communications skills, and an ability to relate well to students and other University staff.

9. Other relevant professional or managerial experience.

10. Demonstrated commitment and ability to develop and implement student-centred approaches with a focus on student success, including the ability to provide leadership to the School and Faculty in the development, implementation and monitoring of student-centred approaches and student success initiatives.

11. Knowledge and understanding of the needs, including learning needs, of a diverse range of students, including those with disabilities.

12. Demonstrated alignment with the University's commitment to child safety.

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Minimum Standards for Academic Levels (MSALs)
Teaching and research academic staff

Level D

A Level D academic will normally make an outstanding contribution to the research and/or scholarship and/or teaching and administration activities of an organisation unit, including a large organisational unit, or interdisciplinary area.

A Level D academic will make an outstanding contribution to the governance and collegial life inside and outside of the institution and will have attained recognition at a national or international level in his or her discipline. He or she will make original and innovative contributions to the advancement of scholarship, research and teaching in his or her discipline.

The standards are not exhaustive of all tasks in academic employment, which is by its nature multi-skilled and involves an overlap of duties between levels.

Federation University Australia
Union Collective Agreement
2015–2018
Academic and General Staff Employees