Research Fellow (Post Doc)

Department/Unit	Education Futures
Faculty/Division	Faculty of Education
Classification	Level B
Work location	Clayton campus
Date document created or updated	April 2018

Organisational Context

Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You'll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you'll need to publish your work. We're a university full of energetic and enthusiastic minds, driven to challenge what's expected, expand what we know, and learn from other inspiring, empowering thinkers. Discover more at www.monash.edu.

The **Faculty of Education** is nationally and internationally recognised for excellence in teaching and research. Operating across three campuses, we offer a diverse and innovative curriculum that responds to international and local community needs, producing graduates who lead professional practice, public debate, policy, and community action around the world.

Among our programs are undergraduate and masters teacher education degrees in early childhood, primary, and secondary education and a wide range of postgraduate coursework and research degrees in education, counselling, psychology and educational and organisational leadership. We have a vibrant research culture, and we are known for our openness to multidisciplinary critical research and our commitment to finding solutions to the key educational problems of our time.

For more information about the faculty, please visit our website: www.education.monash.edu.au.

Position Purpose

We are looking for a Research Fellow (Data Science in Education) to play a leading role in the Faculty of Education's newly established 'Education Futures Initiative'. A key strand of our 'Education Futures' work is to establish data science protocols and support data-informed research within the Faculty of Education. In collaboration with other members of the Education Futures team, the Research Fellow will develop data science grounded methods, to provide relevant stakeholder groups with insights from large and diverse sources of data. In addition, the Research Fellow will undertake high level and basic research, and explore how novel data science approaches and data mining methods can be applied to reveal new insights into education and learning.

Reporting Line: This position reports to Professor Dragan Gasevic

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budget Responsibilities: Not applicable

Key Responsibilities

1. Establish data science protocols to identify underlying patterns and associations in educational data

2. Extract information from multiple sources to devise data-driven solutions which provide insights into questions of importance for educational research and policy

3. Develop data science grounded tools and methods for answering requestions of relevance for a wide range of stakeholders in education

4. Collaborate with Education Futures members and other stakeholders to identify opportunities to inform relevant public and research debates

5. Draw together the analyses and communicate recommendations, identifying the best approach to represent data to a range of diverse audiences

6. Utilising data and information from a wide range of data sources and conduct research into the impact of the data science findings within an educational context

7. Lead and conduct independent and collaborative research projects which result in the generation of high-quality publications

8. Participate in competitive funded research projects

9. Keep abreast of the scientific literature and developments in data science in education and associated educational impact

10. Actively participate in growing the research and teaching culture of data science in education in the University and the Faculty of Education

11. Undertake administration activities primarily connected with the staff member's area of research

12. Collaborate with team members in a manner that reflects a commitment to the University's goals, information sharing and effective problem solving practices

The responsibilities as specified above may be altered in accordance with the changing requirements of the position.

Key Selection Criteria

Education/Qualifications

1. The appointee will have:

- Doctoral qualification (or equivalent relevant research experience)

Knowledge and Skills

2. Well-developed skills in outlier detection and time series data analysis

3. Evidence of an emerging track record of publications and presentations

4. The ability to work under pressure and to prioritise tasks to meet deadlines

5. Well-developed interpersonal and written communication skills

6. Ability to work both independently and collaboratively as a member of a team

7. Ability to work efficiently, meet project timelines, and to demonstrate excellent organisational skills

Other Job-Related Information

- Travel (e.g. to other campuses of the University) may be required
- Some out of hours work will be required
- A valid Working with Children Check is a requirement of this position

Legal Compliance

Ensure you are aware of and adhere to legislation and university policy relevant to the duties undertaken, including: Equal Employment Opportunity, supporting equity and fairness; Occupational Health and Safety, supporting a safe workplace; Conflict of Interest (including Conflict of Interest in Research); Paid Outside Work; Privacy; Research Conduct; and Staff/Student Relationships.