



RESEARCH FELLOW

DEPARTMENT/UNIT	Monash Sustainable Development Institute
FACULTY/DIVISION	Office of Deputy Vice Chancellor (Research) and Senior Vice-President
CLASSIFICATION	Level A
DESIGNATED CAMPUS OR LOCATION	553 St Kilda Road, Melbourne

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 **Portfolio of the Deputy Vice-Chancellor (Research) and Senior Vice-President (DVCR)** is responsible for the development, implementation and continuous improvement of the University's research vision within the changing landscape of higher education, ensuring delivery of accountabilities within the context of the University's strategic plan. Reporting to the President and Vice-Chancellor and as an integral member of the University's executive team, the DVCR further advances the University's research performance, diversifies research funding, oversees research infrastructure strategy, and fosters interdisciplinary and transdisciplinary areas of excellence, collaboration and innovation within Monash and with global research partners. Further information about the University's organisational and governance and structure is available at www.monash.edu/about/structure.

As a leading interdisciplinary research and education institute, **Monash Sustainable Development Institute (MSDI)** is advancing the wellbeing of people and planet, for current and future generations. Monash University has a wealth of sustainable development expertise across its ten faculties. MSDI engages across Monash to bring together applied and transdisciplinary researchers, practitioners and students to advance systems transformation for sustainable development; and provides a platform to create change through deep collaboration, working in close partnership with government, industry and communities to amplify our impact. MSDI is also host to the Sustainable Development Solutions Network (SDSN) Australia, New Zealand and Pacific Regional Centre. We offer forward-thinking study programs and courses that enable people and organisations to engage with and respond to some of the biggest environmental, economic and social issues facing our world today. For more information, please visit www.monash.edu/msdi.

MSDI is leading the AU\$60 million interdisciplinary action research program: **Revitalising Informal Settlements and their Environments (RISE)**. RISE is a randomised-control trial (RCT) of a new water-sensitive approach to upgrading water and sanitation services in informal settlements across Makassar, Indonesia and Suva, Fiji.

Working with communities, governments, local leaders and partner institutions, RISE is co-designing location-specific solutions that integrate green infrastructure, such as constructed wetlands, to strengthen the whole-of-life water and sanitation cycle. RISE success will be measured by the health and well-being of residents – particularly children under five years of age – and the ecological diversity of the surrounding environment.

RISE is a consortium of 27 world-leading academic, government, industry and NGO institutions. The RISE team includes more than 170 researchers and practitioners from a range of disciplines and backgrounds, including ecology, biology, medicine, engineering, urban design, science, community development, and social science disciplines.

POSITION PURPOSE

A Level A research-only academic is expected to contribute towards the research effort of the university and to develop their research expertise through the pursuit of defined projects relevant to the particular field of research.

The **Research Fellow** will undertake a range of complex research and development activities that play a critical role in supporting the delivery of RISE and analysing the data acquired. This includes developing and maintaining field data acquisition tools such as surveys, data processing, cleaning and R scripting, and liaising between the different research and implementation groups and field teams to coordinate data acquisition and transfer, while ensuring a compliant and safe research environment.

The incumbent will have a key role in interrogating, mining and analysing data across numerous disciplines to lead and coordinate data sharing, reporting and publication activities across the RISE program.

The Research Fellow will be proficient, or have a demonstrated capacity to become proficient, with the data types and platforms used in RISE, principally SurveyCTO, survey data, R and R studio and GitHub, but also time series data, statistical processing, mixed media (acoustic, imagery, video data), GIS (ARCGIS, etc.), and laboratory data (Laboratory Information Management System).

The role will make an important contribution to the impact-driven RISE initiative, and will help develop the program as it evolves from research to implementation and scale-up over the coming years.

Reporting Line: The position reports to the RISE Research Fellow (Data Management)

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES

Specific duties required of a Level A research-only academic may include:

1. The conduct of research under limited supervision either as a member of a team or, where appropriate, independently and the production or contribution to the production of conference and seminar papers and publications from that research
2. Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise
3. Limited administrative functions primarily connected with the area of research of the academic
4. Development of a limited amount of research-related material with appropriate guidance from other staff
5. Research activities including providing support for field/laboratory/research activities, undertaking data acquisition, input, validation, management and analysis, developing and maintaining the RISE datasets and database, and developing, maintaining and troubleshooting software and data acquisition tools and platforms

6. Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at departmental, school and/or faculty meetings and/or membership of a limited number of committees
7. Advice within the field of the staff member's research to postgraduate students
8. Other duties as directed from time to time

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:
 - An honours degree or higher qualifications in a relevant discipline and/or progress towards a doctorate in a relevant discipline.

Knowledge and Skills

2. Demonstrated analytical and manuscript preparation skills
3. Ability to solve complex problems by using discretion, innovation and the exercise diagnostic skills and/or expertise
4. Well-developed planning and organisational skills, with the ability to prioritise multiple tasks and set and meet deadlines
5. Excellent written communication and verbal communication skills with proven ability to produce clear, succinct reports and documents
6. A demonstrated awareness of the principles of confidentiality, privacy and information handling
7. A demonstrated capacity to work in a collegiate manner with other staff in the workplace
8. Demonstrated computer literacy and proficiency in the production of high level work using software such as Microsoft Office applications and specified University software programs, with the capability and willingness to learn new packages as appropriate
9. High-level analytical, technical, data analysis and research skills in a scientific discipline, and a demonstrated capacity to develop and implement effective technical and research processes and systems
10. Familiarity and proficiency with data acquisition, the data types and platforms used in RISE, R scripting and the maintenance of large data sets

OTHER JOB RELATED INFORMATION

- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted
- A current satisfactory Working With Children Check is required
- This position will require a successful National Police Record check

GOVERNANCE

Monash University expects staff to appropriately balance risk and reward in a manner that is sustainable to its long-term future, contribute to a culture of honesty and integrity, and provide an environment that is safe, secure and inclusive. Ensure you are aware of and adhere to University policies relevant to the duties undertaken and the values of the University. This is a standard which the University sees as the benchmark for all of its activities in Australia and internationally.