

TECHNICAL OFFICER

DEPARTMENT/UNIT

National Road Safety Partnership Program, Monash University Accident Research Centre

FACULTY/DIVISION

Deputy Vice-Chancellor (Research) and Senior Vice-President (DVCR)

CLASSIFICATION

HEW Level 5

DESIGNATED CAMPUS OR LOCATION

Clayton campus

ORGANISATIONAL CONTEXT

At [Monash](#), work feels different. There's a sense of belonging, from contributing to something groundbreaking – a place where great things happen. You know you're part of something special and purposeful because, like Monash, your ambitions drive you to make change.

We have a clear purpose to deliver groundbreaking intensive research; a world-class education; a global ecosystem of enterprise – and we activate these to address some of the [challenges](#) of the age, Climate Change, Thriving Communities and Geopolitical Security.

We welcome and value difference and [diversity](#). When you come to work, you can be yourself, be a change-maker and develop your career in exciting ways with curious, energetic, inspiring and committed people and teams driven to make an impact – just like you.

We champion an [inclusive workplace culture](#) for our staff regardless of ethnicity or cultural background. We have also worked to improve [gender equality](#) for more than 30 years. Join the pursuit of our purpose to build a better future for ourselves and our communities – [#Changelt](#) with us.

The **Monash University Accident Research Centre (MUARC)** is a world leader in injury prevention research and training. Through excellence in injury prevention research and translation, MUARC supports, challenges and engages citizens, communities, governments and industry to eliminate injury from all causes. MUARC research is interdisciplinary, applying a systems-based framework across all modes of transport, workplace, and home and community sectors. Key to MUARC's success is stakeholder engagement and delivery of relevant research with real-world solutions that benefit all Australians. To learn more about us and the work we do, please visit our website: www.monash.edu/muarc.

The **National Road Safety Partnership Program (NRSP)** is hosted by and delivered in partnership with MUARC. The NRSP is a collaborative network established to support Australian

organisations, both private and public, to implement a positive road safety culture. The NRSPP aims to improve the safety of all workers and, in doing so, help reduce Australia's road trauma. To learn more about us and the work we do, please visit our website: www.nrspp.org.au.

The **National Truck Accident Research Centre (NTARC)** is an independent research facility funded by NTI Ltd whose research is crucial for gaining greater insights into heavy vehicle crashes. NTARC research has enabled NTI, and the whole transport sector, to make sustainable improvements to road safety in Australia. NTARC produces an annual Major Accident Report which has provided an independent snapshot for industry and policy makers based on their claims data. As of 1 November 2023, NTARC has been transferred to the NRSPP to be delivered in partnership with NTI and MUARC. The annual report will now be known as NTARC2.0. Please refer to [NTARC | NTI Limited](#).

POSITION PURPOSE

The Technical Officer is responsible for NTARC2.0 data analysis, developing data-driven models and associated support of research outcomes within the NRSPP. This includes processing of heavy vehicle data using existing tools and in-house procedures, as well as generating outcome reports from quantitative analyses and implementing robust quality assurance procedures. In addition, the position is responsible for collaborating with a multidisciplinary research team at MUARC, including behavioural scientists, engineers, human factors experts and statisticians to implement, test, debug, and apply novel analyses for a range of injury prevention research programs.

This role operates with excellence and expertise to support researchers, students, and collaborators with data processing needs and assists with statistical analyses, figure generation, and academic report writing. The position effectively manages data resources, including logical and well-organised data curation, and regular pruning or archiving of intermediate data processing outputs and historical data.

Reporting Line: The position reports to the Director, NRSPP

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES

1. Assist with the delivery of the NTARC2.0, including data analysis and report writing through: managing electronic data resources derived from NTI; processing data using existing tools and in-house approaches
2. Collaborate with the team, disseminate, and maintain codebases using standard code hosting platforms
3. Work closely with NTI staff responsible for previous NTARC reports to develop the Major Crash Accident Report and integrate feedback from MUARC experts to underpin and expand on trends and findings from the data analysis
4. Develop thematic deep dive data insights from the NTI data to support business decision making
5. Aid in the creation of academic research reports and grant proposals
6. Work with the NRSPP, NTI and MUARC to promote findings from NTARC2.0
7. Collaborating MUARC staff and students to collect, manage and prepare a range of data sources, and apply, interpret and present a variety of statistical analyses for a range of injury prevention research programs

8. Adhere to university policy and procedure, and privacy requirements as they relate to the storage of sensitive information and the service function
9. Build and sustain effective working relationships with a network of internal and external contacts to facilitate communication and support service objectives
10. Other duties as directed from time to time

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:
 - A tertiary qualification in data science or computer science, or other computation-focussed discipline with a high degree of statistical analysis proficiency; or
 - substantial work experience and expertise in statistical analysis, generating outcome reports from quantitative analyses and implementing robust quality assurance procedures; or
 - an equivalent combination of relevant experience and/or education/training.

Knowledge and Skills

2. Ability to generate automated reports, visualizations, and statistical plots based on the data analysis outputs to support quality control and facilitate decision-making
3. High level statistical analysis and research skills including the ability to analyse data/trends for strategic modelling, make recommendations and use information to monitor progress and resolve issues
4. Experience working with data and/or related applications
5. Proficiency in computer coding and strong familiarity with one of more of SPSS, SAS, MATLAB, Python, R etc.
6. Strong organisational skills, including the ability to set priorities, manage time and plan work to meet deadlines
7. Ability to work as an effective member of a multidisciplinary team, as well as independently under general supervision
8. Well-developed communication skills, including the ability to draft a range of documentation

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.