**FIELD INSTRUMENTATION TECHNICIAN (MTI)**

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<th>Mechanical and Aerospace Engineering</th>
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**ORGANISATIONAL CONTEXT**

There’s a certain feeling you get from working at Monash University. It’s the feeling that you’re a part of something special. Something significant. And that’s because you’re not just starting your career, or taking on a bigger challenge. You’re making a real contribution – surrounded by energetic, inspiring people who are driven to make a difference as well. Monash is a place where you’ll be able to develop your career in exciting, sometimes unexpected ways – putting you in the best possible position for a rewarding future. Discover more at www.monash.edu.

The Faculty of Engineering is one of the largest in Australia, renowned worldwide for the quality and calibre of our teaching, research and graduates. We offer a comprehensive range of undergraduate, graduate, postgraduate and higher degree by research programs in a wide range of engineering disciplines. Our research activities provide a platform for establishing a thriving educational enterprise and our staff are committed to creating a dynamic learning environment. The research activities range from fundamental studies to research with a strong applications orientation. To learn more about the Faculty of Engineering, please visit our website: www.monash.edu/engineering.

The Department of Mechanical and Aerospace Engineering aims to educate the next generation of leaders in the profession of mechanical engineering, generate new knowledge and insight into the processes that govern our discipline, and provide service to the community, our profession and industry. We are the largest department within the Faculty in terms of student numbers, offering a range of undergraduate and higher degree programs and a strong and ever growing contingent of students working towards a PhD or Masters Degree. Research is a vital part of the Department’s activities and we are renowned for our expertise and world class facilities. For more information about our department and the work we do, please visit our website: www.monash.edu/engineering/departments/mechanical.

The Maintenance Technology Institute (MTI) is a commercially orientated, professional research and engineering organisation located at Monash University, which provides focused and comprehensive research and development and high-level technical services for the mining and heavy engineering industries. MTI has been providing professional engineering services to the major mining companies; such as BHP, Rio Tinto, Glencore, Anglo American; since 2000. MTI has also developed Real-Time Monitoring solutions to manage the structural integrity of various mining equipment, with a focus towards improving reliability and productivity. For more information about our institute and the work we do, please visit our website: www.monash.edu/engineering/mti.
POSITION PURPOSE

The Field Instrumentation Technician will play a pivotal role to support our industry-focused research and research partners by performing a range of technical services and planning activities relating to fieldwork instrumentation and maintenance. The Instrumentation Technician will be an acknowledged expert in a highly specialised area.

This position will be responsible for undertaking installation and maintenance of proprietary hardware and software, which has an applied research focus specifically on heavy engineering equipment used in industries such as mining. The equipment involved includes field equipment, mobile equipment and processing plants, such as draglines, shovels, drills, large mining trucks, excavators, stackers, stacker reclaimers, and ship loaders.

The Field Instrumentation Technician works closely with clients, contractors, and other technical/trade staff to undertake the installation and maintenance requirements and operates with excellence in process and judgement to provide sound and timely advice and technical services.

Reporting Line: The position reports to the respective Team Leader under general direction of the Managing Director of the Maintenance Technology Institute (MTI)

Supervisory Responsibilities: Not applicable; but on an ad hoc basis dependent on the project the incumbent may supervise some project related and contract staff

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES

1. In consultation with local staff and contractors, play a lead role in planning, scheduling and delivering field work to suit site requirements and MTI resource availability

2. Conduct installation of cabling and sensors, including strain gauges and pressure sensors, on various types of equipment, in the mining industry

3. Maintain close and clear communication with site staff regarding field work, including in relation to planning and scheduling of work, implementation, housekeeping, removal of equipment and closure

4. Ensure all relevant statutory regulations, site safety requirements and Monash safety requirements are followed while undertaking field work, including monitoring MTI or site equipment are well looked after against damage and misuse

5. Comply with all Occupational Health and Safety (OHS) instructions, policies and procedures and take steps to identify, eliminate and/or minimise OHS risks where appropriate, ensuring the safety and wellbeing of MTI and other contract or site staff involved in field work

6. Undertake some data processing and interpretation, including the setup and implementation of data acquisition systems, to derive necessary conclusions and ensure consistency, integrity, and reliability of data

7. Provide guidance, training and general supervision to more junior team members in performing routine technical tasks, as well as guiding them in following and adhering to standard operating procedures, as required

8. Prepare presentations and written reports to clients, as well as maintaining project records for quality assurance purposes

9. Maintain up-to-date specialist knowledge of new and innovative methodology, equipment, materials, technology and service delivery in the field of expertise

10. Other duties as directed from time to time
KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:
   - a TAFE college diploma, completed apprenticeship or degree within instrumentation, electrical or mechanical field with subsequent relevant work experience;
   - extensive experience and specialist expertise in instrumentation, electrical or mechanical field work;
   - an equivalent combination of relevant experience and/or education/training

Knowledge and Skills

2. High level technical, practical, analytical, investigative, analysis, and problem solving skills and experience including the ability to deliver effective technical installation and data processing activities
3. Demonstrated expertise and aptitude in maintenance engineering and technical work, and sound knowledge and proficiency in the use/application of hand and power tools and workshop practices
4. Ability to develop procedures, provide authoritative oversight and training in relation to complex technical services and use of specialised equipment
5. Highly-developed communication skills, including the ability to prepare reports and interact with and gain commitment from a diverse range of stakeholders
6. Well-developed organisational and time management skills, including the ability to plan and organise work to meet priorities and deadlines
7. Ability to work as an effective member of a team and provide effective supervision and on the job training to team members
8. Sound computer literacy, including the ability to learn and adopt new software packages and investigate and troubleshoot failures in hardware and software effectively

OTHER JOB RELATED INFORMATION

- The appointment will be subject to the satisfactory completion of medical assessment(s) in accordance with various mining and statutory legislations
- All field personnel will be subjected to random alcohol and drug screening
- Safety inductions and training will be mandatory in accordance with relevant site requirements
- Travel to remote sites, both interstate and overseas, on short notice to carry out fieldwork will be required, as well as travel to campuses of the University from time to time will be required
- A valid Australian driver’s license is required
- Shift work, overtime and out of hours work will be required (including evenings, weekends and public holidays)
- During peak periods of work, the taking of leave may be restricted

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.