POSITION SUMMARY

This position fills a role within the School of Mechanical and Manufacturing Engineering’s major Learning and Teaching project, *Interactive Learning Modules for Engineering Fundamentals*. The role will be instrumental in the planning, design, development, testing and evaluation of learning modules promised as part of the project.

ORGANISATIONAL ENVIRONMENT

Overview of the Faculty/School/Divisional Work Unit

The School of Mechanical and Manufacturing Engineering is one of the founding Schools of the University and is the leading mechanical and manufacturing school in Australia. The School offers five undergraduate degree specialisations in

- Aerospace Engineering
- Mechanical and Manufacturing Engineering
- Mechanical Engineering
- Mechatronic Engineering
- Naval Architecture

plus a strong program of postgraduate coursework degrees and a significant program of research activity.

Reporting Relationships

Supervisor’s title: Lecturer (Dr Garth Pearce)

Other positions reporting to the supervisor: n/a

Positions reporting to this position (show position titles and levels): None

KEY DUTIES & RESPONSIBILITIES

- Investigate and design a pedagogical framework for delivering on-line interactive learning modules (the main output of the L&T project).

- Work with external content creators to script and develop rich content for the modules.

- Develop and report on strategies to maximise the on-going utility of the modules into the future.
• Design, executing and report on experiments to evaluate the pedagogical effectiveness of the developed learning modules.

• Prepare and coordinate dissemination activities (workshops, forum presentations, scholarly papers) relating to the research findings.

• Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others

SELECTION CRITERIA

• A degree or PhD in Mechanical Engineering or equivalent knowledge of the discipline.

• Excellent oral and communication skills.

• Very good project management skills with the ability to meet stated objectives and experience in managing multi-media projects.

• Demonstrated teaching experience at a tertiary level.

• Experience with the design and/or delivery of student-centred learning featuring educational technologies and rich content.

• Demonstrated experience in the use of sound pedagogical teaching and learning strategies to guide curriculum development and design.

• Ability to identify and communicate management implications of research findings to principal investigators.

• Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

It is not the intention of the position description to limit the scope or accountabilities of the position but to highlight the most important aspects of the position. The aspects mentioned above may be altered in accordance with the changing requirements of the role.