



## POSITION DESCRIPTION

### Academic Positions

*(In addition to the Position Classification Standards)*

**Position Title:** Lecturer

**Level:** B

**Faculty/Division:** Engineering

**Department/Location:** School of Mechanical Materials and Mechatronic Engineering

#### Primary Purpose of the Position:

Conduct research and teaching primary focused on Engineering Asset Management.

Development of the research activities for the discipline of Engineering Asset Management.

Particular responsibility for the EP CRC Project RP2-07D: Pipeline operational life prediction, as well as further development of research on energy pipeline asset management.

#### Position Environment:

Position is supported under the CRC for Energy Pipelines.

#### Major Accountabilities/Responsibilities:

Responsibilities		Outcome	Office Use Only
1.	Initiate, conduct and support research activities in engineering asset management, including degradation modelling and decision support systems, and other related activities; particularly involving liaison with industry representatives and travelling to their offices across Australia as required. Devise appropriate models to assist with data analysis for asset management.	Project reports as required by RP2-07D commitments. Peer reviewed journal publications in high quality international journals; initiation and contribution to applications for external grant funding from government and industry sources.	
2.	Contribute to teaching and course coordination within the asset management and other post graduate programs as appropriate, including delivery of off-shore programs.	Providing high quality teaching of selected topics relevant to the asset management programs	
3.	Contribute to the development of teaching resources within the asset management program as appropriate; including literature reviews, compilation of notes, assessment tasks, presentations.	Providing high quality teaching resources of selected topics relevant to the asset management programs	
4.	Observe principles and practices of Equal Employment Opportunity	To ensure fair treatment in the workplace	
5.	Have OH&S responsibilities, accountabilities and authorities as outlined in the <a href="http://staff.uow.edu.au/ohs/commitment/responsibilities/">http://staff.uow.edu.au/ohs/commitment/responsibilities/</a> document	To ensure a safe working environment for self & others.	

## Reporting Relationships:

Position Reports to:	A/Prof Richard Dwight
The position supervises the following positions:	N/A
Other Key Contacts:	

## Key Relationships:

### Contact/Organisation:

EP CRC  
Major organisations in industry including the pipelines industry  
Researchers working on the EP CRC programs

### Purpose & Frequency of contact

Frequently to establish integrated programs.  
As required to engage them with the research and collect basic data on current practices and models in use.  
Interact and coordinate with other researchers in the RP2-07B program, particularly at Monash University.

## Key Challenges:

Engaging industry in the project.  
Interfacing with senior experts in asset management within major organisations in the energy pipelines industry.  
Determining what contribution can be made to existing relatively mature management systems.  
Identifying the interfaces between this work and that on deterioration modelling being conducted at Monash University.

## SELECTION CRITERIA - Knowledge & Skills:

### Essential:

- A strong track record of publications in engineering asset management relative to opportunity
- Knowledge of the university environment
- Capability to teach and coordinate the Asset Management and other post graduate programs
- Capability to deliver off shore programs

### Desirable:

- Practical experience in energy pipeline or similar industries

## SELECTION CRITERIA - Education & Experience:

### Essential:

- PhD or equivalent qualification preferably in an area relevant to asset management
- Degree in Engineering or other relevant field.
- Industrial experience
- Expertise in dealing with industry and organisations at all levels

### Desirable:

- Teaching in the university system

## Personal Attributes:

- Highly motivated and able to work effectively, both independently or in a team.

- Out-going, able to establish working relationships easily.

**Special Job Requirements:**

May require some travel interstate to meet with industry representatives and with researchers.

**Approval:**

Approved by Head of Unit: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by Personnel: \_\_\_\_\_

Date: \_\_\_\_\_



## POSITION CLASSIFICATION STANDARD - Teaching and Research

Level: B  
Title: Lecturer

### Description

A position classification standard describes the broad categories of responsibility attached to academic staff at different levels. The standards are not exhaustive of all tasks in academic employment, which is by its nature multi-skilled and involves an overlap of duties between levels. **Therefore the standards should not be applied mechanistically. Quality of performance is the principal factor governing level of appointment of individuals, and a broadly-worded skill base is set out for each level.**

All levels of academic staff can expect to make a contribution to a diversity of functions within their institutions. Such functions include teaching research participation in professional activities and participation in the academic planning and governance of the institution. The balance of functions will vary according to level and position and over time.

- General Standard
- Specific Duties
- Skill Base

### General Standard

A Level B academic is expected to make contributions to the teaching effort of the institution and to carry out activities to maintain and develop her/his scholarly, research and/or professional activities relevant to the profession or discipline.

### Specific Duties

Specific duties required of a Level B academic may include

- The conduct of tutorials, practical classes, demonstrations, workshops, student field excursions, clinical sessions and studio sessions.
- Initiation and development of subject material.
- Acting as subject coordinators.
- The preparation and delivery of lectures and seminars.
- Supervision of the program of study of honours students or of postgraduate students engaged in course work.
- Supervision of major honours or postgraduate research projects.
- The conduct of research.
- Involvement in professional activity.
- Development of course material with appropriate advice from and support of more senior staff
- Marking and assessment.
- Consultation with students.
- A range of administrative functions the majority of which are connected with the subjects in which the academic teaches.
- Attendance at departmental and/or faculty meetings and/or membership of a number of committees.

### Skill Base

A Level B academic shall have qualifications and/or experience recognised by the institution as appropriate for the relevant discipline area. In many cases a position at this level will require a doctoral or masters qualification or equivalent accreditation and standing. In determining experience relative to qualifications, regard is had to teaching experience, experience in research, experience outside tertiary education, creative achievement, professional contributions and/or to technical achievement.