

POSITION DESCRIPTION

Academic Positions

(In addition to the Position Classification Standards)

Position Title: Research Fellow Level: B
 Faculty/Division: Engineering and Information Sciences
 Department/Location: Mechanical, Materials and Mechatronics

Primary Purpose of the Position:

The person recruited will undertake high strength steel research for the Energy Pipeline CRC (EPCRC) and Defence Materials Technology Centre (DMTC) and develop new projects. He or she will be also involved in supervising HDR students.

Position Environment:

The position forms part of the UOW contribution to EPCRC and DMTC activities and will involve work within a dedicated team at UOW and liaison with industry partners.

Major Accountabilities/Responsibilities:

Responsibilities		Outcome	Office Use Only
1.	To conduct microstructural analysis of HSLA steels	Report and recommendations	
2.	To conduct mechanical testing of HSLA steels	Report and recommendations	
3.	To liaise with industrial partners	Communication and collaboration	
4.	To prepare quarterly reports and milestone reports	Report	
5.	Day to day project management	Meet project milestones	
6.	To work with other team members	Operational wok team	
7.	Develop new projects	New research projects	
8.	Supervisory roles: Communicate and consult with staff on workplace and staffing matters.	To foster direct relationships with staff and enhance engagement with the organisation.	Ongoing
9.	Observe principles and practices of Equal Employment Opportunity	To ensure fair treatment in the workplace	
10.	Have OH&S responsibilities, accountabilities and authorities as outlined in the http://staff.uow.edu.au/ohs/commitment/responsibilities/ document	To ensure a safe working environment for self & others.	

Inherent Requirements:

This position description outlines the major accountabilities/responsibilities and the selection criteria against which you will be assessed as suitable for the position. As such there will be specific job requirements that we refer to as Inherent Requirements.

Inherent Requirements refer to your ability to:

- Perform the essential duties and functional requirements of the job;
- Meet the productivity and quality requirements of the position;
- Work effectively in the team or other type of work organisation concerned; and
- Do the job without undue risk to your own or others health, safety and welfare at work.

If you have any injuries, illness, disorder, impairment, condition or incapacity that may affect your ability to perform the inherent requirements of the position, we encourage you to discuss this with the University to assist in the process of identifying reasonable adjustments to enable you to perform the duties of the position. The University wants to place you in the best situation to use your skills effectively in the position you are applying for at the University.

Reporting Relationships:

Position Reports to:	A/Prof Huijun Li
The position supervises the following positions:	HDR and practicum students
Other Key Contacts:	Dr Stephen Van Duin, Prof John Norrish, Prof Frank Barbaro

Key Relationships:

Contact/Organisation:

A/Prof Huijun Li/UOW
Prof Frank Barbaro
Dr John Piper
Prof Valerie Linton
Mr Leigh Fletcher

Purpose & Frequency of contact

EPCRC and DMTC Project management/ weekly
EPCRC project consulting
EPCRC RP1 liaison/fortnightly
EPCRC project management/weekly
APIA pipeline issues/fortnightly

Key Challenges:

1. Design suitable experimental plan for evaluating high strength line pipe steels and their welding procedures. Ensure the progress meets the project milestone
2. Develop new projects, and attract research fundings
3. Provide recommendations to industry on the application issues of high strength line pipe steels
4. Develop new micro-alloyed HSLA steels

SELECTION CRITERIA - Knowledge & Skills:

Essential:

- Demonstrated ability and experience in metallography, welding and mechanical testing.
- Demonstrated ability to develop new projects.
- Thorough understanding of the relationship between microstructure and mechanical properties.
- Welding process knowledge applicable to high productivity, defect free fabrication.
- Demonstrated competence with data analysis, report writing.

SELECTION CRITERIA - Education & Experience:

Essential:

- First degree in mechanical or materials
- Project management experience
- Project proposal writing skills
- Demonstrated project report writing abilities
- Experience with HSLA steels
- At least 1 years relevant research and industrial experience

Personal Attributes:

Demonstrated ability to communicate effectively with senior industry personnel.

Special Job Requirements:

The position involves potential work on classified defence projects and the project sponsor (DMTC) requires that the candidate must be an Australian citizen.

Approval:

Approved by Head of Unit: _____

Date: _____

Approved by Human Resources: _____

Date: _____

POSITION CLASSIFICATION STANDARD - Research Only

Level: B
Title: Fellow

Description

A position classification standard describes the broad categories of responsibility attached to research-only academic staff at different levels. The standards are not exhaustive of all tasks in research-only academic employment, which is by its nature multi-skilled and involves an overlap of duties between levels. The standards provide an adequate basis to differentiate between the various levels of employment and define the broad relationships between classifications.

Progression through an academic career will normally be based on research, teaching, administrative functions and contribution to the profession. The balance of functions will vary according to level and position over time. It is only in exceptional circumstances that promotion would be solely on the research only position classification standards.

- General Standard
- Specific Duties
- Skill Base

General Standard

A Level B research-only academic is expected to carry out independent and/or team research within the field in which he/she is appointed and to carry out activities to develop his/her research expertise relevant to the particular field of research

Specific Duties

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

- The conduct of research either as a member of a team or independently, and the production of conference and seminar papers and publications from that research.
- Supervision of research-support staff involved in the staff members' research.
- Guidance in the research effort of junior members of research-only academic staff in his/her research area.
- Contribution to the preparation, or where appropriate individual preparation, of research proposal submissions to external funding bodies.
- Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise.
- Administrative functions primarily connected with his/her area of research.
- Occasional contributions in the teaching program within the field of the staff member's research.
- Co-supervision, or where appropriate supervision, of major honours or postgraduate research projects within the field of the staff member's area of research.
- Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at departmental and/pr faculty meetings and/or membership of a limited number of committees.

Skill Base

A Level B research-only academic will normally have completed a doctoral qualification or have equivalent qualifications or research experience. In addition he/she may be expected to have had post-doctoral research experience which has resulted in publications, conference papers, reports or professional or technical contributions which give evidence of research ability.