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## Position Description

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| <b>Position Title:</b>             | Research Fellow                                  |
| <b>Position Classification:</b>    | Level B  |
| <b>Position Number:</b>            | NEW  |
| <b>Faculty/Office:</b>             | Faculty of Science                               |
| <b>School/Division:</b>            | School of Molecular Sciences                     |
| <b>Centre/Section:</b>             | ARC Centre of Excellence in Plant Energy Biology |
| <b>Supervisor Title:</b>           | Centre Director                                  |
| <b>Supervisor Position Number:</b> | 313181   |

### Your work area

The ARC Centre of Excellence in Plant Energy Biology (PEB) is a nationally funded research centre operating across four universities across Australia, and is headquartered at the University of Western Australia in Perth. Its broad mandate is to conduct internationally leading research on energy efficiency mechanisms in plants and work with academia and industry to evaluate its findings for new insights, applications and future research opportunities.

### Reporting structure

Reports to: Centre Director

Dotted line reports to:

Direct reports:

Dotted line reports:

### Your role

As the appointee you will, under broad direction, undertake innovative laboratory-based research on stable-isotope labelling for protein analysis using mass spectrometry aimed at publication in international research journals. You will be supervised by Professor Harvey Millar, collaborate closely with the other members of his laboratory and play a key role in both technology development and student supervision.

### **Your key responsibilities**

- Designs, executes and analyses research on novel approaches to understanding protein turnover through application of stable-isotope labelling and mass spectrometry
- Writes research articles for publication in leading international journals.
- Sets up reliable and reproducible experimental systems to produce samples for analysis of stress and developmental responses of plants and aids collaborators in development of such experiments.
- Works closely with lab collaborators in building databases, developing informatics pipelines for mass spectral data analysis and biological interpretation.
- Keeps records and follows procedures required by the rules of funding agencies.
- Takes the lead in maintenance and troubleshooting of a mass spectrometry facility in collaboration with other researchers and manufacturers.
- Teaches and supervises new researchers and students in the use and development of biological mass spectrometry.
- Travels for research meetings and for research collaboration visits.
- Other duties as directed.

### **Your specific work capabilities (selection criteria)**

- PhD in protein chemistry, biochemistry or molecular biology, or related discipline
- Demonstrated experience with analysis of stable-isotope labelled mass spectrometry data
- Good interpersonal skills to work independently and in a team
- Experience in project management
- High level computing and data management skills
- Experience in preparing manuscripts for publication and supervising students

### **Special requirements (selection criteria)**

Willingness to travel and work flexible hours

### **Compliance**

#### Workplace Health & Safety

All supervising staff are required to undertake effective measures to ensure compliance with the Occupational Safety and Health Act 1984 and related University requirements (including Safety, Health and Wellbeing Objectives and Targets).

All staff must comply with requirements of the Occupational Safety and Health Act and all reasonable directives given in relation to health and safety at work, to ensure compliance with University and Legislative health and safety requirements. Details of the safety obligations can be accessed at <http://www.safety.uwa.edu.au>

#### Inclusion & Diversity

All staff members are required to comply with the University's Code of Ethics, Code of Conduct and Inclusion and Diversity principles. Details of the University policies on these can be accessed at <http://www.hr.uwa.edu.au/policies/policies/conduct/code>, <http://www.web.uwa.edu.au/inclusion-diversity>.