



SENIOR RESEARCH FELLOW – TIMBER DURABILITY

Work Area:	National Centre for Timber Durability and Design Life
Classification:	Level B or Level C
Supervisor:	Director, National Centre for Timber Durability and Design Life
Position No:	4742
Incumbent:	Vacant

VISION

To become Australia's premier regional university.

MISSION

Enriching our regions, connecting with our communities and creating opportunities for all.

VALUES

At UniSC we will:

- Advocate for equitable access to education and knowledge
- Recognise and embrace diversity and inclusion
- Champion environmental sustainable principles and practices
- Commit to fair and ethical behaviour
- Respect our people, our communities, and their potential
- Be accountable to ourselves and each other
- Strive for excellence and innovation in all that we do

POSITION OVERVIEW

The Research Fellow will support all research activities of the National Centre for Timber durability and Design Life. Examples of potential research topics for this position include:

- Service life prediction of timber and Engineered wood Products (EWPs);
- Climate related impact on Australian building envelop members; and
- Reuse and recycling of treated timber and EWPs.

This will be done in collaboration with the other members of the NCTDDL team and the Forest Research Institute.

PROFILE LEVEL B

At the University of the Sunshine Coast, a Research Fellow plays a major role in research by leading research projects and supervising candidates for higher degrees by research. Evidence of the level of research can be



demonstrated through publications in quality journals of national/international standing, National Competitive Grants and leadership as a supervisor and mentor.

They make significant connections with and impact on their discipline/field, which is recognised and acknowledged by peers nationally and are developing productive industry and community links that benefit students, the community and/or the University. For example, they can undertake consultancies and apply discipline knowledge and skills that benefit external stakeholders and partners and can be involved in activities that encourage participation in University life through outreach activities.

PROFILE LEVEL C

At the University of the Sunshine Coast, a Senior Research Fellow is a local leader who:

- (i) has a sound and established track record in research. The quality and impact of their research can be demonstrated by: the status and consistency of publications or exhibitions in their discipline/field; citation rates; and the value of their research for social, environmental, cultural and commercial benefit. They make substantial contributions to successful grant applications and can lead research projects. They can demonstrate quality supervision of candidates for Higher Degrees by Research and involvement in the development of their own discipline/field, which is recognised and acknowledged by peers
- (ii) actively contributes to departmental and University development, governance and capacity-building
- (iii) makes significant contributions to and generates outcomes from developing productive industry and community links that benefit students, the community and the University. For example, they can undertake consultancies; apply their discipline knowledge and skills to collaborate with, and produce benefits for, external stakeholders and partners; and encourage participation in University life through outreach activities

All staff are expected to contribute to the achievement of the University's strategic goals and priorities and provide service to the University commensurate with their level of appointment and the opportunities available to them.

DUTIES

1. Be an effective senior researcher and provide leadership in research and research training by:
 - Purposefully developing focused expertise in a relevant discipline/field;
 - Developing a research agenda and participating in a research team(s);
 - Framing research problems and researchable hypotheses;
 - Designing and conducting research projects and writing research reports;
 - Communicating research outcomes to both expert and lay audiences through publishing, and subjecting outcomes to peer appraisal;
 - Successfully applying for research grants, particularly external competitive grants;
 - Successfully supervising candidates for higher degrees by research and early career academics;



- Developing and maintaining strategic research partnerships
 - Being invited to conduct research with colleagues at other universities, and
 - Contributing to the development and maintenance of a positive academic environment that is conducive to high levels of engagement and standards of performance in research.
2. Maintain substantial involvement in professional/community service as a scholarly practice through which discipline knowledge and skills are applied to consequential problems in the world beyond the University. Service can be both in a remunerated capacity as consultancy, or without remuneration and can include:
 - Editing journals and being a member of review panels;
 - Creating opportunities for discussion of intellectual, social, economic and cultural issues of importance to the well-being of the community;
 - Making professional commentary on issues in the general media and within the wider community which involves bringing specialist expertise to bear on issues of general public interest in a range of fora; and
 - Undertaking major consulting projects through the University.
 3. Provide service to the University by contributing to the definition and achievement of its goals and enable it to be a healthy organisation and can include:
 - Developing and maintaining strategic and productive partnerships, connections and relationships with people, groups and organisations at local, national and international levels; and
 - Communicating appropriately and effectively with students, other staff and individuals outside the University
 4. Other duties within the range of skills normally associated with this classification, including those associated with an evolving research and professional environment, as required.

SELECTION CRITERIA

To be appointed at Level B, applicants need to demonstrate:

1. Completion of a doctoral qualification in a relevant field of mycology, plant pathology, materials science, or wood science and engineering with a well-developed knowledge of the biodeterioration of cellulosic materials and its prevention, and at least 5 years' experience as a researcher post PhD or demonstrated relevant and equivalent experience.
2. Quality and trajectory of the applicant's track record relative to opportunity:
 - Refereed publications and other acknowledged research outputs that are discipline specific. Applicants must clearly identify their contribution as distinct from other contributors and provide evidence of the quality of the output (impact factor, citations etc);
 - External funding (internal and external) awarded over the last five years. In the case of research fellowship applicants, internal grants will also be considered as part of the assessment process. Applicants must clearly identify their contribution as distinct from other contributors;
 - Esteem measures (keynote addresses or invitations to present, prizes and awards, committee/board membership etc);



- Technology transfer activities;
 - Outreach activities (including engagement with external partners); and
 - Supervision of research students. In the case of all applicants, supervision of higher degree research students and number of completions will also be taken into consideration.
3. Membership of and sound connections with relevant professional bodies and community groups and/or in professional practice.
 4. Strong personal qualities and collegial approaches that contribute to the development and maintenance of a positive academic environment and the development of new partnerships.
 5. Evidence of regular participation in academic development activities and the desire to continue to learn and improve as an effective academic.

SELECTION CRITERIA

To be appointed at Level C, applicants need to demonstrate:

1. Completion of a doctoral qualification in a relevant field of mycology, plant pathology, materials science or wood science & engineering with a well-developed knowledge of the biodeterioration of cellulosic materials and its prevention, and at least 7 years' experience as a researcher post PhD or demonstrated relevant and equivalent experience.
2. A sound and established track record of research activity, including:
3. Refereed publications in leading, high impact, peer reviewed journals and other acknowledged research outputs that are discipline specific. Applicants must clearly identify their contribution as distinct from other contributors and provide evidence of the quality of the output (impact factor, citations etc.);
4. External funding awarded over the last five years. Applicants must clearly identify their contribution as distinct from other contributors;
5. Esteem measures (keynote addresses or invitations to present, prizes and awards, committee/board membership etc.);
6. Technology transfer activities if applicable;
7. Outreach activities (including engagement with external partners) including membership of and sound connections with relevant professional bodies and community groups and/or in professional practice.
8. Supervision of research students and successful completions will be assessed relative to discipline.
9. Sound leadership contributions and personal qualities that influence the development and maintenance of a positive academic environment which is conducive to high levels of engagement and standards of achievement for both staff and students.
10. Membership of and sound connections with relevant professional bodies and community groups and/or in professional practice.
11. Strong personal qualities and collegial approaches that contribute to the development and maintenance of a positive academic environment and the development of new partnerships.
12. Evidence of regular participation in academic development activities and the desire to continue to learn and improve as an effective academic.

Desirable:

1. Experience with preservative treatments of wood including wood modification systems.



2. Experience working with advanced fungal isolation and identification techniques.
3. Experience with analytical methods for examining wood chemistry including GC, HPLC, or FTIR methodologies.
4. Knowledge of methods for assessing the physical and mechanical properties of timber.

Additional Requirements

It is a condition of employment for this position that you may be required to provide periodic evidence of immunisation against communicable diseases.