



# LECTURER (SOLAR ENERGY)

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| DEPARTMENT/UNIT  | Department of Civil Engineering; and<br>Department of Electrical and Computer Systems Engineering |
| FACULTY/DIVISION | Faculty of Engineering  |
| CLASSIFICATION   | Level B   |
| WORK LOCATION    | Clayton campus  |

## ORGANISATIONAL CONTEXT

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Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You'll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you'll need to publish your work. We're a university full of energetic and enthusiastic minds, driven to challenge what's expected, expand what we know, and learn from other inspiring, empowering thinkers. Discover more at: [www.monash.edu](http://www.monash.edu).

The **Faculty of Engineering** is one of the largest in Australia, renowned worldwide for the quality and calibre of our teaching, research and graduates. We offer a comprehensive range of undergraduate, graduate, postgraduate and higher degree by research programs in a wide range of engineering disciplines. Our research activities provide a platform for establishing a thriving educational enterprise and our staff are committed to creating a dynamic learning environment. The research activities range from fundamental studies to research with a strong applications orientation. To learn more about the Faculty of Engineering, [please visit our website](#).

The **Department of Civil Engineering** aims to provide high quality education, research and professional services globally for the mutual benefit of the students, the staff, the University, industry, the profession and the wider community. We offer several undergraduate degrees as well as postgraduate coursework degrees via Off-Campus Learning. The Department actively pursues innovative and significant multi-disciplinary research to address the challenges for engineering in the 21st century. For more information about us and the work we do, [please visit our website](#).

The **Department of Electrical and Computer Systems Engineering** aims to provide high quality programs for undergraduate and research students as well as undertaking and publishing high quality research. We offer internationally recognised undergraduate and research programs in telecommunications, electronics, robotics, biomedical engineering and electrical power systems. We maintain strong links with engineering professionals to ensure our programs remain at the leading edge of professional practice. We have a vibrant research culture, with major research areas in communications & RF identification, intelligent robotics, biomedical engineering and power electronics & energy. For more information about us, [please visit our website](#)

## POSITION PURPOSE

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The Lecturer (Solar Energy) is expected to play a major role, as part of a team, in the Resources Engineering Program with a particular focus on solar energy. This is an opportunity to be part of shaping the future of resources education at Monash University. The Lecturer is required to undertake academic duties that include lecturing in, and some administration of, the undergraduate and postgraduate teaching programs, and supervision of postgraduate research students. The incumbent will also be involved in and/or lead research programs within their specialist area. These may include solar photovoltaics, solar thermal technologies and integration of solar energy into the broader electricity grid.

The Lecturer is expected to strengthen the existing capability of Monash University and to further enhance its reputation as a leader in research and teaching. The Lecturer will work closely across the Department of Civil Engineering and the Department of Electrical and Computer Systems Engineering to enhance the research collaboration between both the departments.

The Faculty of Engineering has a strong commitment to diversity, inclusion and flexibility in the workplace. The Faculty aims to improve gender diversity among academic staff and has gender equity targets for shortlisting candidates.

**Reporting Line:** The position reports to the Head of Department, Department of Civil Engineering

**Supervisory responsibilities:** Not applicable

**Financial delegation:** Not applicable

**Budgetary responsibilities:** Not applicable

## KEY RESPONSIBILITIES

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Specific duties required of a Level B academic may include:

1. The conduct of tutorials, practical classes, demonstrations, workshops, student field excursions, clinical sessions and/or studio sessions
2. Initiation and development of course material in line with best practice methodologies
3. Subject coordination and subject content and delivery enhancement, including the preparation and delivery of lectures and seminars, and the design, implementation and review of educational innovations
4. Consultation with students including marking and assessment of coursework and guidance on areas of development
5. The conduct of high-quality research and the undertaking of a significant role in research projects
6. Supervision of the program of study of honours students and of postgraduate students engaged in course work, and supervision, support and guidance to major honours or postgraduate research projects
7. Involvement in professional activities such as networking and industry events to stay abreast of academic and industry changes and developments and how these can be applied at Monash
8. Broad administrative functions; the majority of which are connected with the subjects in which the academic teaches
9. Attendance at departmental and/or faculty meetings and/or membership of a number of committees

## KEY SELECTION CRITERIA

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### Education/Qualifications

1. The appointee will have:

- Undergraduate and research doctorate degrees in science or engineering fields relevant to solar energy

### Knowledge and Skills

2. High level of interpersonal skills and demonstrated ability to work independently and as part of a team across both the education and service sectors
3. Demonstrated manuscript preparation skills; including developing a solid track record of refereed research publications
4. Ability to work positively and cooperatively with students, internal and external teams and external organisations
5. Demonstrated record of teaching experience in a tertiary environment particularly in the areas of solar energy such as materials science, electrical engineering and renewable energy
6. Demonstrated ability to motivate, actively engage and educate a given audience
7. Demonstrated ability in curriculum and subject material development
8. Proven ability, commitment and passion for engaging in scholarly and research activities
9. A demonstrated capacity to work in a collegiate manner with other staff in the workplace
10. Demonstrated ability in organising and running the students field-trips

## OTHER JOB RELATED INFORMATION

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- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted

## GOVERNANCE

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Monash University expects staff to appropriately balance risk and reward in a manner that is sustainable to its long-term future, contribute to a culture of honesty and integrity, and provide an environment that is safe, secure and inclusive. Ensure you are aware of and adhere to University policies relevant to the duties undertaken and the values of the University. This is a standard which the University sees as the benchmark for all of its activities in Australia and internationally.