# Position Details

## Research Projects – CSOF3

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| The following information is for applicants | |
| Advertised Job Title | Solar Technologies Engineer |
| Job Reference | 99090 |
| Tenure | Indefinite  Full-time or Part-time (minimum 0.8 FTE) |
| Salary Range | AU$73,567 to AU$93,630 pa (pro-rata for part-time) + 15.4% superannuation |
| Location(s) | Newcastle, NSW |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents |
| Position reports to the | Team Leader, Photovoltaics Development |
| Client Focus – Internal | 30% |
| Client Focus – External | 70% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Mr Kenrick Anderson via email at [Kenrick.Anderson@csiro.au](mailto:Kenrick.Anderson@csiro.au) or phone +61 2 4960 6273 |
| How to apply | Apply online at <https://jobs.csiro.au/>  Internal applicants please apply via **Jobs Central**  If you experience difficulties when applying, please email [careers.online@csiro.au](mailto:careers.online@csiro.au) or call 1300 984 220. |

**Acknowledgement of Country**

CSIRO acknowledges the Traditional Owners of the land, sea and waters, of the areas that we live and work on across Australia. We acknowledge their continuing connection to their culture and pay our respects to their Elders past and present. View our [vision towards reconciliation](https://www.csiro.au/en/about/Indigenous-engagement/Reconciliation-Action-Plan).

**Child Safety**

CSIRO is committed to the safety and wellbeing of all children and young people involved in our activities and programs. View our [Child Safe Policy](https://www.csiro.au/en/about/policies/child-safe-policy).

### Role Overview

### Our [Solar Technologies](https://research.csiro.au/solar/) group based in Newcastle works on new technologies for power generation and energy storage. We are leading the way in both solar photovoltaic, and concentrated solar thermal (CST) research, specialising in high-temperature central receiver systems. We’re developing this technology for a global market.

### As part of this team, within CSIRO’s Energy Research Unit, you will work within a multidisciplinary engineering & scientific group, and play a key role in supporting experiments, design and development, running equipment, and operation of key facilities. Some of your active projects will include development of next generation solar cells, technologies for utility scale PV and industrial scale solar thermal to produce decarbonised electricity.

This role is offered on a full-time or part-time basis (minimum 0.8 FTE).

### Duties and Key Result Areas

* Under limited supervision, design and perform straightforward experiments and routine analyses of, solar photovoltaics and solar thermal technologies, assisting with the design and/or scale-up of new processes or apparatus by adapting existing techniques and components to meet special circumstances or undertaking modifications to methods requiring some innovation.
* Assist with the development, testing and modification of prefabricated structures, parts and control systems for pilot scale demonstration of technologies.
* Perform some non-routine technology development activities using a range of techniques, often working on a number of parallel and competing tasks.
* Working with discretion to decide on the timing of operations within the work team’s plan and planning ahead to meet experimental and/or project demands.
* Independently test possible solutions to resolve identified problems.
* Assist with maintaining research facilities, scheduling and instructing staff in the use of equipment, maintaining workspaces and consumables.
* Respond courteously and efficiently to client requests, maintaining clear communication regarding mutual expectations and monitoring client satisfaction.
* Other duties as directed.

## **Selection Criteria**

#### Essential

*Under CSIRO policy only those who meet all essential criteria can be appointed.*

1. Relevant bachelor’s degree or equivalent relevant work experience in Mechatronics engineering, Mechanical Engineering, Chemical Engineering, Renewable Energy Engineering, or similar field.
2. Experience with CAD and FEA software, preferably the Solidworks software package.
3. Experience in or understanding of basic control systems, electronics, embedded hardware.
4. Good oral and written communication skills including the ability to communicate outcomes to stakeholders.
5. Proven ability to work collaboratively as part of a multi-disciplinary team and carry out tasks safely and successfully in support of project goals.

## **Desirable**

1. Experience working with pilot scale hardware, design and testing.
2. Experience with design of complicated assembly models.
3. Exposure to solar photovoltaics or solar thermal technologies.

## **Required Competencies**

* **Teamwork and Collaboration:** Proactively seeks and considers the ideas and opinions of others from within and outside the team to help form decisions, plans or actions.
* **Influence and Communication:** Puts forward ideas by presenting factual information supported by data, definitions, examples, illustrations or other aids, which will assist in conveying meaning.
* **Resource Management/Leadership:** Provides instruction and assists other staff to complete allocated tasks and activities.
* **Judgement and Problem Solving:** Identifies and considers the implications of a range of available alternatives in order to select the most appropriate response to problems of a familiar or recurring nature.
* **Independence:** Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).
* **Adaptability:**Willingness to change ideas or perceptions based on new information, contrary evidence or other people's points of view. Prepared to try out different approaches.

Special Requirements

Appointment to this role may be subject to conditions including provision of a national police check as well as other security/medical/character clearance requirements.

* The successful candidate will be asked to obtain and provide evidence of a National Police Check or equivalent. Please note that people with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.

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CSIRO is a values-based organisation. In your application and at interview you will need to demonstrate behaviours aligned to our values of:

* 1. People First
  2. Further Together
  3. Making it Real
  4. Trusted

Find out more about CSIRO [Energy](https://www.csiro.au/en/Research/EF)