# Position Details

## Research Projects- CSOF3

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| The following information is for applicants | |
| Advertised Job Title | Technical Officer – Fire-Resistance Testing |
| Job Reference | 91741 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$68,148 – AU$86,733 per annum plus up to 15.4% superannuation |
| Location(s) | Sydney (North Ryde), NSW |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Position reports to the | Team Leader – Fire Resistance Testing |
| Client Focus – Internal | 10% |
| Client Focus – External | 90% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Keith Nicholls via email at [keith.nicholls@csiro.au](mailto:keith.nicholls@csiro.au) |
| 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).

### Role Overview

The role of Research Projects staff in CSIRO is to collaborate in scientific and technological activities with other research staff usually by assisting with detailed planning, undertaking or assisting with experimental, observational or technology development work, and in carrying out the more practical aspects of the work.

Fire resistance testing assists in determining the behaviour of an element of construction when exposed to defined heating and pressure conditions which may be encountered in a fully developed fire. The fire-resistance of a product or system can be determined through destructive fire testing designed to replicate the product’s intended end-use. The specimen is built into an appropriate supporting construction within a restraint frame and mounted on a furnace. The temperature within the furnace is controlled according to a time/temperature regime defined by Australian Standard 1530.4.

The Technical Officer – Fire-Resistance Testing assists with all testing activities within the Structural Fire Laboratory including project management, specimen documentation, supervision of full scale specimen construction, test instrumentation and technical reporting in accordance with the requirements of both Australian and international test standards. This role is required to communicate directly with commercial clients at all levels of the construction industry to provide structural fire testing of building systems in accordance with the framework outlined within the National Construction Code (BCA).

In addition, the Technical Officer – Fire-Resistance Testing is also required to assist with activities relating to other types of fire testing which includes including bushfire testing, tests on electrical cables and support systems as well as other ad hoc tests when required. They will also be responsible for assisting with testing and the preparation of technical reports relating to infrastructure projects such as the fire performance of tunnel linings, fire rated cable and cable support systems as well as ad hoc client specific investigations and/or research activities.

### Duties and Key Result Areas

With appropriate supervision:

* Assist with the conduct of sponsored fire testing at all stages from initial client contact, the determination of client requirements, supervision of specimen construction, testing, data analysis and technical reporting in accordance with Australian and International fire test standards.
* Provide instrumentation of test specimens in accordance with the requirements of relevant Australian and International test standards as well as specimen instrumentation test documentation. Test methodologies include AS 1530.4 (including international equivalents such as ASTM E119, BS 476 and ISO 834) as well as methodologies relating to bushfire performance of external structures exposed to large radiant heat sources and direct flame contact (AS 1530.8 parts 1 and 2).
* Supervise the safe construction of test specimens and assist with the efficient operation of the structural fire laboratory as specified in the Business Process Control Manual in accordance with NATA registration requirements.
* Demonstrate knowledge of HSE requirements pertaining to a testing laboratory environment.
* Assist with the design and supervision of performance-based research and test procedures on an ad hoc basis to fulfil commercial client expectations.
* Communicate openly, effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Work collaboratively as part of a multi-disciplinary, often regionally dispersed research team, and business unit to carry out tasks in support of CSIRO’s scientific objectives.
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.

## **Selection Criteria**

#### Essential

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

1. Testing experience in a NATA accredited testing laboratory related to building products and systems, or the successful completion of tertiary qualifications in relevant Engineering or Science fields related to the performance of materials under elevated temperatures.
2. Good communication skills and experience with the writing of detailed technical reports.
3. Knowledge of the Building Code of Australia (BCA), particularly the Deemed to Satisfy provisions relating to fire resistance.
4. Knowledge of Australian and International fire testing standards.
5. Project management experience.
6. Knowledge and understanding of HSE requirements pertaining to a fire testing laboratory environment.

## **Desirable**

1. Experience in laboratory and field investigations and/or laboratory equipment or other relevant experience relating to the fire performance of building systems.
2. Ability to communicate to all levels of the building industry and infrastructure sector as well as the ability to interpret technical fire testing and design standards.
3. Experience in use of data acquisition equipment.

## **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.
* The successful candidate should be willing and able to operate vehicles or machinery requiring a licence, including forklift and gantry crane. They may be required to provide evidence of the licence, or have the ability to obtain one, in future.

## **About CSIRO**

We solve the greatest challenges through innovative science and technology. Visit [CSIRO Online](http://www.csiro.au/) and [CSIRO Services](https://www.csiro.au/en/work-with-us/services) for more information.

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

* People First
* Further Together
* Making it Real
* Trusted