# Position Description

## Research Projects – CSOF3/4

The following information is for applicants

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| Advertised Job Title**:** | Fire Assessments Engineer  |
| Job Reference: | 60146 |
| Relocation Assistance**:** | Will be provided to the successful candidate if required. |
| Applications Are Open To: | Australian/New Zealand Citizens, Australian Permanent Residents or a temporary Australian resident who has full work rights for the duration of this contract.  *Visa sponsorship will not be provided.* |
| Percentage of Client Focus - Internal: | 0% |
| Percentage of Client Focus - External: | 100% |
| Reports to the: | Team Leader – Fire Assessments |
| Number of Direct Reports: | 0 |
| Name and Contact Details For Applicant Enquiries  | Keith Nicholls – Keith.nicholls@csiro.au*Please do not email your application directly to Keith Nicholls. Applications received via this method will not be considered.* |
| Contact Details For Applying | Call 1300 984 220 or email careers.online@csiro.au.  |
| How to Apply: | Please apply online at [jobs.csiro.au](https://jobs.csiro.au/) and enter the requisition number**.** Internal applicants, please apply via ‘Jobs Central’ through the ‘People Hub’ icon  |

## Role Overview:

The Fire Assessment Engineer will communicate directly with commercial clients in the building and infrastructure sector, providing independent consulting to assess the fire performance of tested building systems incorporating variations to the tested prototype, in accordance with the framework outlined in Schedule 5 Clause 2 c) of the National Construction Code (NCC).

The Fire Assessment Engineer will report to the Fire Assessment Team Leader and be responsible for the delivery of fire assessment reports and consulting services relating to the fire performance building systems. The Engineer will liaise and collaborate with fire testing staff as well as experts across CSIRO and other international laboratories with regard to fire testing requirements in support of the assessment of variations to tested systems. In this position, the Engineer will also assist the fire-resistance testing team during periods of peak demand or as requested by the Team Leader, Fire Resistance Testing.

## Duties and Key Result Areas:

* Provide consulting services pertaining to the technical assessment of building systems under fire conditions.
* Deliver written technical assessments on the likely performance of fire protection systems to comply with the Deemed to Satisfy provisions of the BCA and International codes.
* Provide written performance-based assessments on the performance of fire protection systems to comply with the performance requirements of the BCA (NCC), based on referenced test standards, test data, engineering judgement and calculations.
* Assist the Team Leader-Fire Assessments with project delivery outcomes and timeframes within budget expectations.
* Liaise with the fire testing team to assist in the determination of client requirements, data analysis and technical reporting in accordance with Australian and International fire test standards.
* Assist with fire-resistance testing, when required.
* Assist the Fire Assessments Team Leader in contributing to research and testing projects using engineering judgement, expertise and specialist skills.
* Under the direction of the Fire Assessments Team Leader, assist in the design of performance-based research and test procedures on an ad-hoc basis to fulfil commercial client expectations.
* CSIRO requires National Police Checks to be provided by preferred applicants for all new positions. Where matters are disclosed in a National Police Check, only those that are relevant to the position and the ability of the applicant to perform the role will be taken into account.
* Under general direction participate in planning projects and accept responsibility for the scheduling and completion of significant parts of projects, including allocating and directing tasks where appropriate.
* Communicate openly, effectively and respectfully with all staff, clients and suppliers in the interests of good business practise 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.

**For an appointment at the higher salary level (CSOF4), duties will also include:**

* Direct responsibility for client liaison on technical matters.
* Test program development and management.

## Competencies:

**CSOF 3**

* **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.**

**CSOF 4**

* **Teamwork and Collaboration: Cooperates with others to achieve organisational objectives and may share team resources in order to do this. Collaborates with other teams as well as industry colleagues.**
* **Influence and Communication: Uses knowledge of other party's priorities and adapts presentations or discussions to appeal to the interests and level of the audience. Anticipates and prepares for others reactions.**
* **Resource Management/Leadership: Allocates activities, directs tasks and manages resources to meet objectives. Provides coaching and on the job training, recognises and supports staff achievements and fosters open communication in the team.**
* **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
* **Independence: Recognise and makes immediate changes to improve performance (faster, better, lower cost, more efficiently, better quality, improved client satisfaction).**
* **Adaptability:** Copes with ambiguity or situations that lack clarity. Adapts readily to changing circumstances and new responsibilities (which may include activities outside own preferences) in the interests of achieving team objectives. Recognises the need for and undertakes personal development as a result of changes.

## Selection Criteria:

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

## A tertiary qualification in a relevant Engineering or Science field related to the performance of materials under elevated temperatures, these include Structural Engineering, Mechanical Engineering and Material Science qualifications and/or relevant work experience in a similar industry.

## Strong communication skills and writing of detailed technical reports and assessments

## Knowledge of the Building Code of Australia (NCC) Deemed to Satisfy provisions relating to the fire resistance of building elements and systems.

## Knowledge of Australian and International fire testing standards, assessment guidelines and related fire design standards.

## The ability to operate in commercial environments subjected to change and external constraints.

**For an appointment at the higher (CSOF4) salary level, as well as satisfying the Essential Criteria listed above, you must also have:**

* 2+ years relevant technical consulting experience of building fire resistance.

## Project management experience.

## Strong communication skills and writing of detailed technical reports and assessments for commercial clients and an ability to create and foster an environment of cooperation between teams.

## Desirable Criteria:

## Experience delivering engineering consultancies within a quality management environment meeting the requirements of ISO 9000.

* Well-developed experience in laboratory tests and field investigations and/or laboratory equipment or other relevant experience relating to the fire performance of building systems.
* Experience within a NATA Accredited operating environment.

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.

## About CSIRO:

At CSIRO we solve the greatest challenges through innovative science and technology. See more [online](http://www.csiro.au/)!

Find out more about the CSIRO [Fire Safety!](https://www.csiro.au/en/Do-business/Services/Materials-infrastructure/Fire-safety)