



Positions Details - 2005/845 - Bushfire Behaviour Scientist - Ensis Forest Biosecurity and Protection

Job Profile

Reference Number:	2005/845
Position Title:	<i>Bushfire Behaviour Scientist - Ensis Forest Biosecurity and Protection</i>
Division:	<i>Forestry and Forest Products</i>
Location:	<i>Yarralumla, ACT</i>
Classification:	<i>CSOF5 to CSOF6</i>
Salary Range:	<i>\$66K - \$89K plus superannuation</i>
Tenure:	<i>Three years</i>
Applicants:	<i>International Applicants Welcome</i>
Applications Close:	<i>9 Sep 2005</i>
Job Category:	<i>Scientific Research</i>

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The Forest Biosecurity and Protection unit (FBP) within Ensis, the joint forces of CSIRO and Scion, is offering a major opportunity for an enthusiastic scientist or bushfire management officer. The successful candidate will contribute to the fire behaviour research capability of the Bushfire Behaviour and Management group. Forest Biosecurity Protection staff are located in Canberra and Sydney (Australia) and Rotorua and Christchurch (New Zealand). The fire team is predominantly split between Canberra and Christchurch, with the position on offer being located in Canberra.

You will join a group that is strong in bushfire behaviour and management science and in developing fire behaviour models and decision support systems. The team undertakes research needed to reduce loss of life and property from bushfires and deliver benefits of improved bushfire management to communities and the environment. The team's research and development program is primarily concentrated on developing better fire behaviour prediction models and improve fire danger rating systems. These models will provide bushfire authorities and land managers with better operating tools to:

- implement prescribed burning programs,
- allocate suppression resources and
- manage biodiversity

As the successful candidate you will be expected to assist in the development and application of fire behaviour models and to deliver integrated research in operational solutions to Australia's forestry, national parks, other land management agencies and rural bushfires fire authorities responsible for fire management and control on public and private land. To do this you will require a BSc. (majoring in forestry, natural resource management, environmental science or related area) and/or relevant experience. Good communication, both oral and written skills together with a willingness and ability to travel and participate in extended field projects is essential. A clearly demonstrated ability to evaluate fire behaviour, vegetation assessments and fire weather will ensure you are the successful applicant for this role.

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Position Description

Position Objective:

- Contribute to Ensis Forest Biosecurity and Protection Business Unit and the Bushfire CRC's programs in fire behaviour and management with research to understand fire behaviour and the development of applied bushfire management tools and decision support systems.
- Liaise and network with other Bushfire CRC research groups and user agencies in the development and application of bushfire behaviour and management tools
- Liaise with external customers to develop the opportunities for application of fire behaviour knowledge and tools.
- Develop strategies and programs for expanding the use and understanding of fire behaviour modelling tools and services within Ensis and the Bushfire CRC.

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Selection Criteria

Applicants must address the selection criteria. Applicants that do not address the selection criteria will not be considered. To assist you prepare your application please read the information available at ["Before You Apply"](#).

Essential

1. A bachelor of Science Degree majoring in Forestry, natural resource management, environmental science or related area and/or relevant experience. to liaise with staff and industry personnel at all levels.
2. Demonstrated ability in evaluating fire behaviour, vegetation assessments in fire weather
3. Demonstrated ability to integrate knowledge from diverse disciplines.
4. Experience in the development and application of mathematical/statistical models that integrate biological and physical process.
5. Experience in data manipulation, organisation and analysis, including statistical techniques.
6. Technical competence in the use of a suite of data management, statistical, presentation and communication application in a personal computing environment.
7. Demonstrated ability to undertake scientific research.
8. Ability to work harmoniously and productively in a team environment
9. Flexible attitude to varying research requirements
10. Good written and oral communication skills
11. Willingness to travel and participate in extended field projects
12. A commitment to Equal Employment Opportunity (EEO) Principles, OHS&E and security policies.

Desirable

1. Broad knowledge and interest in bushfire science and meteorology.
2. A history of involvement in collaborative research teams working towards management oriented outcomes.
3. Familiarity with the use of spatial information and /or integration of spatial information into models of bushfire behaviour.

- Operational experience in fire management and suppression and interest in a research career in bushfire research.

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More Information

CSIRO Australia is one of the worlds largest and most diverse scientific research institutions with a staff of more that 6000. Globally CSIRO is active in more than 70 countries. For more information on the Division of Forestry and Forest Products and **ensis**, please visit our web sites at www.ffp.csiro.au or www.ensisjv.com

EMPLOYMENT CONDITIONS

Salary on commencement will depend on an evaluation of the successful applicant's qualifications, experience and competencies within the advertised range.

The position is for a three year period, with a twelve month probationary period.

Conditions of service include four weeks annual leave and cumulative sick leave.

An annual performance planning, review and assessment is compulsory under CSIRO's terms and conditions of employment. This annual performance review includes determination of incremental advancement within a salary range.

APPLICATIONS

***CSIRO prefers applications be lodged online via this careers site.
Applicants that do not address the Selection Criteria will not be considered***

You are required to include two (2) documents "Covering Letter Addressing the Selection Criteria" and a "Resume or CV" including the names of at least three (3) referees.

If you experience difficulties applying online call 1300 301 509 and someone will be able to assist you. Outside business hours please email csiro-careers@csiro.au

Further technical information on this role may be obtained by contacting Dr Jim Gould at jim.gould@csiro.au do not send your application to Dr Gould, applications sent this way will not be excepted

If you are unable to lodge your application online, applications quoting **reference number 2005/845**, framed against the selection criteria and including qualifications, work experience and the names of at least three referees can be forwarded to:

**The Personnel Manager,
CSIRO Forestry and Forest Products
Private bag 10
Clayton South Vic 3169
Australia**

Applications should be received no later than 9th September 2005

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