

Position description

POSITION TITLE	Fire Spatial Data Intern
ROLE GRADE	Grade 2
REMUNERATION	\$57,025 pro rata (inclusive of super)
LOCATION	Flexible – home office based
DATE REVIEWED	February 2024
POSITION BASIS	3 month full-time

Introduction

Bush Heritage Australia (BHA) is a leading not-for-profit conservation organisation founded in 1991 that protects ecosystems and wildlife across the continent; working with Aboriginal and Torres Strait Islander (ATSI) people and the agricultural sector to make sure its impact is deep, sustainable and collaborative.

By 2030, Bush Heritage's ambition is to be a leader in ecological insight; a partner of choice; achieving impressive on-ground outcomes; and delivering impact at landscape-scale for people, wildlife and ecosystems.

BHA aims to deepen and double its impact by 2030 – protecting, restoring and regenerating a total of 30 million hectares of land (an area larger than the state of Victoria). This will include:

- Significantly scaling up the national conservation innovation program to enable depth of impact across the landscapes BHA actively manages;
- Double the amount of land that BHA directly owns and manages from 1.2 million hectares to 2.4 million hectares;
- Deepen support of Aboriginal partnerships through exploring, strengthening and growing relationships with Aboriginal partners through a right-way approach; and
- Working with farmers and other land managers to enhance biodiversity across over 10 million hectares of agricultural land towards a more sustainable future.

Bush Heritage's success and culture lies with connecting people with purpose: committed members of staff, selfless volunteers, expert partners and loyal and passionate financial supporters.

We're proud to acknowledge the [Traditional Owners](#) of the places in which we live and work. We recognise and respect the enduring relationship they have with their lands and water, and pay our respects to Elders, past and present.

Organisation overview

Bush Heritage is led by the Chief Executive Officer (CEO), who is supported by a strong senior leadership team (SLT) and directed by a committed and diverse Board. The directors include leading Australians from business and commerce, government, non-government and private sectors, conservation and science. Bush Heritage demonstrates a strong commitment to Aboriginal and Torres Strait Islander people and has Aboriginal representation on its Board.

The organisation has six teams – Conservation Operations (including Regions, National Fire Program and Aboriginal & Torres Strait Islander (ATSI) Engagement), Science & Conservation, Engagement, Strategy & Growth, People, Safety & Culture, and Corporate Services.

Our work environment

Dependent upon the nature of your role in Bush Heritage your role may be mostly office based, a mix of office and field based or mostly field based. These workplace environments present a range of requirements as part of the role which include but might not be limited to:

Office based: computer use; sitting at a desk; online meetings; working with volunteers.

Field based: working outdoors in hot/cold/ windy/dusty environments; lifting up to 15kg; bending, reaching, pulling/pushing; manual dexterity/manipulation; distance walking in outdoor environments with uneven terrain and between buildings; requirements to wear personal protective equipment for some tasks; exposure to herbicides, poisons, fuels and lubricants; working with mobile plant and equipment; driving using 4WD over uneven terrain; some peaks and troughs in work cycles due to unexpected circumstances e.g. bushfires; working with volunteers.

Our values

We walk in Harmony

We see the possibility

We listen and learn

We make change real

We walk in Harmony: We nurture a regenerative ecosystem to hum in harmony. Walking side-by-side to form relationships grounded in reciprocity, where we all have the space to give and take. We embrace a rich diversity of people and perspectives, for we know the stronger our community is, the further we can walk together to heal Country.

We listen and learn: We listen, respect and share. Always leaving room for honest conversations - so even as we grow up, we don't grow apart. We actively learn and take responsibility for the part we play in protecting the natural world. Holding ourselves - and each other - to account so we never lose sight of where we're heading.

We see the possibility: We see the possibility of what a healthy, resilient world could look like – if only someone believed in it. We see this future and sound it out for all to hear with our voice of hope. It takes thinking differently, to broaden horizons and look beyond what's right there. With creativity that confidently rises from credibility.

We make change real: Our purpose moves us to action. With our feet firmly planted on the ground, we find practical and pragmatic ways to create functional solutions to sustain land and life. We do what needs to be done, in the good days and the bad. For us, nothing beats seeing ideas put into action, and feeling the impact of our change for good.

Position summary

Bush Heritage's 2030 Strategy is to improve biodiversity protection, function and connectivity across landscapes. To lessen any negative impact from fire to our conservation targets, the BHA National Fire Program provides support for fire management planning, implementation and reporting at Reserves and Partnerships. The program also manages the Bushfire Risk Management Framework. A suite of spatial support tools is being developed to help prepare for, respond to and recover from unplanned bushfires.

Working closely with the Fire Team and the Systems and Data Team, the Fire Spatial Data Intern is responsible for fulfilling the key responsibilities and duties associated with this position including continuing to progress the development of spatial support tools enabling field workers to capture and display fire management data. Primary duties include developing a monitoring, evaluation and reporting dashboard which displays spatial information relating to the fire regime of a Reserve or Partnership, such as area, frequency, season, and severity. Other duties include developing a reporting tool for bushfire risk outlooks and using remote sensing to update fire related data from 2023.

The position will be under the supervision of the National Fire Program Manager – Rhys Swain with a close working relationship with the Science and Conservation Spatial Analyst – Paul Young.

Key responsibilities

The primary responsibilities associated with the role include:

1. Developing a monitoring, evaluation and reporting dashboard which displays spatial information relating to the fire regime of Reserves or Partnerships.
 2. Developing a reporting tool for bushfire risk outlooks.
 3. Assisting with other duties as set out by the supervisor and team.
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Selection criteria

Essential

- Relevant tertiary qualification in natural sciences, natural resource management, spatial sciences or a related field.
- High level of computer and data management skills with good knowledge of ArcGIS, preferably including both desktop and web GIS.
- Self-starter with good attention to detail.
- Strong organisational skills.
- A desire to learn, develop new skills, collaborate, and be innovative.
- A commitment and passion for nature conservation and the objectives and values of Bush Heritage.
- Excellent communication skills (both written and verbal) in presenting information in a targeted clear and audience-appropriate way.
- Advanced emotional competence with excellent interpersonal skills, and capable of working effectively with a diverse range of people (staff, volunteers and supporters).

Desirable

- Previous fire or broader environmental application of GIS experience.
 - Knowledge of fire weather drivers.
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Key outcomes for the position

- Development of monitoring, evaluation and reporting tools including fire regime and bushfire risk outlook.
- Understand the process of fire scar mapping at a property and landscape scale.
- Understand the environmental conditions that propagate bushfire risk.
- An evaluation report about the intern role and experience.
- An oral presentation to the Fire and Systems and Data teams.
- Work with the Bush Heritage Communications team to support content production relevant to your project. This could include supplying the team with audio/visual content, undertaking interviews, and reviewing content.
- Capture the highlights of your internship using photographs and written blogs to share with the Seeding the Future team as part of your Learning Objectives.

Compliance, policy and procedures

Responsible for and commit to:

Using and ensuring adherence to BHA's values, policies, and procedures.

Ensuring Health, Safety and Environment compliance, acting, and encouraging others to act in a healthy and safe manner.

Position Relationships

Position title of manager	National Fire Program Manager
Position titles which also report to manager	Fire Program Officer North Fire Program Officer South Reserves Support Officer
Titles of positions that report to this position	None
Key internal relationships	Systems and Data team, Seeding the Future, Fire Program, Reserve Managers and Healthy Landscape Managers
Key external relationships	None
