



Australian Government

**Department of Climate Change, Energy,
the Environment and Water**
Australian Antarctic Division

Expeditioner Band 1.5 (APS 4) – Electrician

Classification	Expeditioner Band 1.5 (APS 4) - \$79,801 pa
Total Remuneration	\$145,142 pa (when in Antarctica/sub-Antarctic, inclusive of Antarctic Allowances)
Division	Australian Antarctic Division
Branch	Assets and Technology
Section	Infrastructure Maintenance and Operations/Construction Projects
Location	Based in Kingston, Tasmania. Antarctic and sub-Antarctic
Employment Status	Non-Ongoing (temporary)
Hours	Full Time
Security Clearance	Not Required

Commitment to Inclusion

AAD values diversity, in backgrounds and experience. We acknowledge the challenges associated with the work that we do and are committed to developing an inclusive culture for all people. We welcome everyone to apply, especially those individuals who are underrepresented in the industry: women and gender diverse people, LGBTQIA+ folks, culturally and linguistically diverse people and Aboriginal and/or Torres Strait Islander peoples.

Overview

As an Electrician with the Australian Antarctic Program you will work on electrical reticulation systems, including all refrigeration plant, the building monitoring control system and the automatic fire detection/alarm systems. You will operate and maintain complex plant which may include diesel and/or wind power generation equipment, reverse osmosis units, and waste water treatment plants. You will also assist other trades as required.

Opportunities exist for electricians to work in both the Antarctic Summer and Winter seasons, normally November to March or November to November respectively. Shorter winter opportunities may also arise (March to November). There are Electricians at all three Antarctic stations as well as Macquarie Island. The deployment is normally preceded by two months predeparture training for Winter and one month for Summer.

The Job

As an Electrician you will be required to undertake some or all of the following:

- In conjunction with the mechanics, ensure the efficient and effective operation and maintenance of the diesel power generation facilities at a station.
- Operate and maintain the electrical distribution facilities and equipment.
- Operate and maintain all refrigeration equipment.
- Maintain the automatic fire alarm systems including all fire detection and protection equipment.
- Operate and maintain the Building Management Control System (BMCS).
- Maintain the electrical and refrigeration stock inventories and coordinate the reorder of

- spare parts, materials and equipment.
- Perform preventative maintenance routines including periodic electrical testing, and test and tag.
- Prepare and submit monthly and annual reports.
- Operate a computerised maintenance management system.
- Electricians may be required to participate in an on-call roster to respond to out-of-hours alarms generated by critical plant and equipment.
- Electricians may be required to undertake routine observations of the diesel power generation facilities at a station 7 days a week.
- The AAD is committed to providing a safe place of work, safe systems of work and a culture in which care for one another's safety and wellbeing is central to the way we do things. Having stated this, you are going to an extreme workplace. The consequences of you failing to understand your responsibilities can be catastrophic. It is therefore incumbent on all expeditioners to understand and implement the AADs Work Health Safety Commitment Statement and the AAD Safety Behaviours Framework.

As a proactive and positive member of the community you will:

- Maintain a personal and practical commitment to AAD policies and standard operating procedures (including work, health and safety and environmental policies). Training and guidance in regard to all responsibilities relevant to your position will be provided.
- Be rostered to perform duties to support the community life of the expedition, such as general kitchen duties, garbage clearance, general cleaning duties, and assisting other expedition members with official programs, to ensure an equitable contribution.
- Work in areas outside of your primary role, for example, providing assistance to other areas or science projects, or participating in general labouring tasks such as clearing snow or handling cargo.

What we are looking for

Essential

You can only be selected for this role if you have these essential skills and licences:

Qualifications/licences (provide copies in your application):

- A current, unrestricted electrical worker's licence which qualifies you to undertake electrical work in Australia
- A White Card (issued after May 2009), or the ability to attain prior to commencement
- A current, unrestricted "C" class (manual) Australian driver's licence.
- Valid passport when travelling to the Antarctic or sub-antarctic. The expiry date of the passport (and any relevant visa) must be at least 6 months beyond the planned end date of your intended stay in the Antarctic or sub-antarctic
- A current statement of attainment in the following units of first aid, or the ability to attain prior to commencement:
 - Provide First Aid (HLTAID0011) must be valid for at least 18 months beyond the date of AAD commencement.
 - Provide CPR (HLTAID009) must be valid for at least 6 months beyond the date of AAD commencement.

Broad general experience within the electrical trade (with at least three years post-trade)

Highly Desirable

These are not essential to the role however to be suitable you will need to have at least some of these. We encourage you to apply even if you do not fit 100% of the requirements.

Qualifications/licences (provide copies in your application):

- A Certificate III or IV in Electrical Instrumentation

Demonstrated experience (within the last 5 years):

- Operation and maintenance of complex automatic control equipment, including relay logic, programmable logic controllers (PLCs), BMCS and SCADA systems.
- A Forklift (High Risk) Licence, or the ability to attain prior to commencement
- Technical reporting and mark-up of schematic diagrams.
- Operation of a computerised maintenance management system.
- Experience with new electrical installations and with general electrical programmed and reactive maintenance.
- Working knowledge of current relevant Australian Standards

Desirable

These are not essential to the role. To be suitable you do not need any of these, but they may make you more competitive against other applicants.

Qualifications/licences (provide copies in your application) which will be highly regarded:

- Electrical Equipment in Hazardous Areas
- High Voltage Switching Operations.

Demonstrated experience in one or more of the following (within the last 5 years):

- Installation, maintenance and operation of automatic fire detection/alarm systems.
- Installation, maintenance and operation of commercial and domestic refrigeration plant.
- Installation, commissioning and/or maintenance of single and three phase diesel gensets up to 500 kVA.
- Installation, maintenance and operation of high voltage distribution systems (6.6kV) and associated switch gear and protection equipment.
- Installation, maintenance and operation of electrical equipment in hazardous areas.
- Maintenance and operation of reverse osmosis potable water production plant and waste water treatment plant.
- Maintenance of large-scale wind turbines and their associated control systems.

Additional

Although not critical for your application to be successful, it is useful to have some understanding of any additional licences you may have.

- Confined space
- Supervise asbestos removal
- Dogging
- Rigging
- Operation of a crane

- Telescopic materials handler
- Dozer
- Loader
- Excavator
- Skid steer loader (Bobcat)
- Skidder

Personal Qualities - The Australian Antarctic Division assesses the personal qualities required to successfully live and work in an isolated Antarctic or sub Antarctic community. Successful candidates need to demonstrate the personal qualities criteria detailed [here](#). This will be assessed during the selection process.

Eligibility and other requirements

Citizenship – In accordance with the PS Act 1999, APS employees are required to be Australian citizens. Persons who are not Australian citizens will generally only be considered where there are no suitable Australian applicants, with next considerations being Australian residents with work rights and New Zealand citizens

Security Clearance - This position does not require a security clearance.

Pre-employment Check - Your suitability for employment will be assessed through a pre-employment screening process. This process includes a requirement to undergo and satisfy a National Police Check, referee checks, character clearance and a pre-employment medical and psychological adaptability assessment, specified mandatory qualification(s) validation and a probation period.

If required, this may include comprehensive drug screening for compliance to undertake Safety Sensitive Aviation Activities (SSAA).

Requirement to be vaccinated under public health orders

It may be a condition of your employment that:

1. if you are required to be vaccinated against COVID-19 under an applicable Australian law; or
2. if the department is unable under an applicable Australian law to permit you to attend for work (ie outside of your usual place of residence) unless you are vaccinated against COVID-19,

You must be up to date with your COVID-19 vaccinations, and you must also comply with all recommendations from public health authorities regarding any additional vaccinations that ensure the effectiveness of the COVID-19 vaccine that you have received.

How to Apply

The [Application Process](#) and the [Life as an Expeditioner](#) pages contain critical information about living and working in Antarctica, and must be read in conjunction with this job description prior to applying.

Apply for this role by submitting your application through our [Jobs in Antarctica](#) website. If you have any questions regarding this role, email the contact officer.

Your email is our primary method of contacting you; please make sure that the email and phone number you provide us is correct, current and accessible. **We recommend applicants to not use their work email on their application for accessibility.**

Work Health and Safety Obligations

All workers (APS1-Secretary) have a duty to take reasonable care for their own health and safety whilst at work, to ensure their acts or omissions do not adversely affect the health and safety of other persons and to comply with any reasonable instruction given to comply with the Work Health and Safety legislation.

All supervisors and managers (APS5-EL1) play a significant role by modelling safe work behaviours and clearly setting the standard for acceptable behaviour in the workplace. Supervisors and managers play a critical role in supporting 'Officers' to exercise due diligence and in consulting with duty holders.

An Officer (EL2-Secretary) makes and participates in making decisions that affect the whole or a substantial part of the department. Employees at the SES Band 2 and above classification are considered to be Officers under the Work Health and Safety Act 2011 (Cth) with all EL 2 and above required to complete officer due diligence training. Officers have a duty to be proactive and continuously ensure that the department complies with relevant duties and obligations.

Contact

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