



Australian Government

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



AUSTRALIAN
ANTARCTIC
PROGRAM

Expeditioner Band 1.5 (APS 4) – Electrician

Classification	Expeditioner Band 1.5 (APS 4) - \$89,076 pa
Total Remuneration	\$162,012 pa (When in Antarctica/sub-Antarctic, inclusive of Antarctic Allowances)
Division	Australian Antarctic Division
Branch	Assets and Infrastructure
Section	Infrastructure Maintenance and Operations/Construction Projects
Location	Kingston, Tasmania and Antarctic/sub-Antarctic deployment
Employment Status	Non-Ongoing (temporary)
Hours	Full-time (37.5 hours per week)
Security Clearance	Not Required

WHO WE ARE – Australian Antarctic Division (AAD)

The AAD is part of the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW). As primary agency for Australia's Antarctic Program (AAP), the AAD is responsible for achieving the Australian Government's Antarctic goals to:

- maintain the Antarctic Treaty System and enhance Australia's influence within it
- protect the Antarctic environment
- understand the role of Antarctica in the global climate system
- undertake scientific work of practical, economic and national significance.

THE JOB

As an Electrician with the Australian Antarctic Program you will work on electrical reticulation systems, refrigeration plant, building monitoring control system, and 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.

You should apply for this role if you have the appropriate knowledge, skills and experience and an interest in the challenge of living and working in a small community in a remote environment.

Applicants will be assessed and if successful placed in a role for training and deployment, or a merit pool that will be used for future seasons.

Key duties will include, but are not limited to:

- In conjunction with the mechanics, ensure the efficient and effective operation and maintenance of the diesel power generation facilities at 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 participate in a roster to undertake routine observations of the diesel power generation facilities at a station 7 days a week

WHAT WE ARE LOOKING FOR - ESSENTIAL

Required Identification/Qualification/Licence/Ticket	When you need to provide evidence	
	Provide copy with application	obtained prior to job commencement
Electrical Worker's Licence – Current, unrestricted licence which qualifies you to undertake electrical work in Australia	✓	
White Card (issued after May 2009), or the ability to attain prior to commencement		✓
Driver's licence – Current, unrestricted "C" class (manual) Australian driver's licence	✓	
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.	✓	
Valid Passport - 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		✓
Provide First Aid (HLTAID011) must be valid for at least 18 months beyond the date of AAD commencement.		✓

Provide basic emergency life support (HLTAID010) 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		✓

Knowledge and experience:

- Broad general experience within the electrical trade with at least 3 years post trade

WHAT WE ARE LOOKING FOR

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

Knowledge and 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 which will be highly regarded (provide copies in your application):

- Electrical Equipment in Hazardous Areas
- High Voltage Switching Operations

Knowledge and experience: (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

ELIGIBILITY AND OTHER REQUIREMENTS

Personal Qualities:

During the recruitment selection process, the AAD assesses individual personal qualities required to successfully live and work in an isolated Antarctic/sub-Antarctic community. Successful candidates need to demonstrate the personal qualities detailed [here](#).

Pre-employment check:

Your suitability for employment will be assessed through pre-employment screening including National Police Check, referee checks, pre-employment medical assessment, specified mandatory qualification(s) validation and completion of required probation period.

Work Health and Safety Obligations:

All employees have a duty to take reasonable care of their own health and safety while at work, to ensure their acts or omissions do not adversely affect the health and safety of other persons in line with any reasonable instruction given to comply with the Work Health and Safety legislation.

HOW TO APPLY

Information about how to apply can be found [here](#), including further information about AAD jobs.