



Australian Government

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



AUSTRALIAN  
ANTARCTIC  
PROGRAM

## Expeditioner Band 1.5 (APS 4) – Refrigeration Mechanic

<b>Classification</b>	Expeditioner Band 1.5 (APS 4) - \$89,076 pa
<b>Total Remuneration</b>	\$162,012 pa (When in Antarctica/sub-Antarctic, inclusive of Antarctic Allowances)
<b>Division</b>	Australian Antarctic Division
<b>Branch</b>	Assets and Technology
<b>Section</b>	Infrastructure Maintenance and Operations/Construction Projects
<b>Location</b>	Kingston, Tasmania and Antarctic/sub-Antarctic deployment
<b>Employment Status</b>	Non-Ongoing (temporary)
<b>Hours</b>	Full-time (37.5 hours per week)
<b>Security Clearance</b>	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 a Refrigeration Mechanic you will be part of the team which maintains and develops the Australian stations on the Antarctic continent and at Macquarie Island. You will install and maintain station domestic and commercial refrigeration plant as well as assisting with general maintenance and construction as required.

Refrigeration Mechanics generally work in summer jobs only, with the station location dependent on requirements. Winter jobs are occasionally available when required for a specific project.

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:

- Maintain the refrigeration plant and equipment at a station for both food storage and scientific storage

- Manage stocks of refrigerants, ensuring that environmental standards and reporting requirements are met
- Carry out the installation of new cool rooms (when scheduled) including the insulating panels, hardware and refrigeration system
- Prepare and submit technical reports
- Maintain the refrigeration stock inventories and coordinate the reorder of spare parts, materials and equipment
- Assist with tasks in the construction and maintenance of buildings and services

#### 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
<b>Trade or Technical Certificate/Apprenticeship</b> – or recognised equivalent as a Refrigeration Mechanic	✓	
<b>Australian Refrigeration Council</b> – Current, full registration and air-conditioning licence	✓	
<b>White Card</b> (issued after May 2009), or the ability to attain prior to commencement		✓
<b>Driver’s licence</b> – Current, unrestricted “C” class (manual) Australian driver’s licence	✓	
<b>Citizenship</b> - 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.	✓	
<b>Valid Passport</b> - 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		✓
<b>Provide First Aid (HLTAID011)</b> must be valid for at least 18 months beyond the date of AAD commencement.		✓
<b>Provide CPR (HLTAID009)</b> must be valid for at least 6 months beyond the date of AAD commencement		✓

#### Knowledge and experience:

- Broad general experience within the refrigeration mechanic trade
- Minimum of 3 years post trade experience

## WHAT WE ARE LOOKING FOR – DESIRABLE

### Knowledge and experience:

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.

### Recent hands-on experience (within the last 5 years):

- A current, unrestricted electrical worker's licence which qualifies you to undertake electrical work in Australia
- The installation and maintenance of packaged refrigeration units for -18 degrees Celsius and +4 degrees Celsius cool rooms up to 20 kW
- Maintenance of refrigeration systems for temperature-controlled shipping containers
- Maintenance of glycol chillers which employ shell and tube heat exchange and ice ball systems
- Construction and maintenance of cool rooms using insulated panel systems and associated cool room hardware
- Configuration and fault finding of electronic refrigeration controllers and sensors
- Managing cylinder stocks of refrigerant gases including conducting leak testing and reclaiming refrigerants
- Experience with R404A, R134A and R409 refrigerants and experience with upgrading from legacy refrigerants such as R12 and R22
- Maintenance of laboratory refrigeration systems including controlled temperature cabinets.
- Maintenance of domestic heat pumps and refrigerators
- Experience in the installation or maintenance of building heating and ventilation systems (air handling and heating/cooling water) is desirable

### Additional

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

- Restricted Electrical Licence
- Working Safely at Heights
- Confined space
- Remove non-friable asbestos
- Supervise asbestos removal
- Dogging
- Rigging
- Scaffolding
- Forklift
- Elevated work platform
- Operation of a crane
- Telescopic materials handler
- Dozer
- Loader
- Excavator
- Skid steer loader (Bobcat)

## **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.