



Australian Government

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

Expeditioner Band 1.5 (APS 4) – Refrigeration Mechanic

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	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 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.

The Job

As a Refrigeration Mechanic you will be required to undertake some or all of the following:

- 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.

- 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 suitable trade certificate, technical certificate, apprenticeship or recognised equivalent as a Refrigeration Mechanic.
- A current Australian Refrigeration Council full registration and air conditioning licence.
- 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 refrigeration mechanic trade (three years post trade).

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.

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 licences you may have.

- 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)

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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