



**British
Antarctic Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

Electrical Power Generation Technician – Antarctica

Contract type: Antarctic Contract

Duration: Antarctic Winter (Up to 18 months)

Salary: £23,937 per annum initially. Additionally, upon completion of a successful tour, you will receive a 10% bonus on your Antarctic Service.

Benefits: We offer generous benefits

Team: Antarctic employment pool team

Location: Antarctica

Description

We are recruiting experienced and skilled technicians to take responsibility for maintenance, repair and support of all static and mobile electrical power producing plant and equipment at our research stations in Antarctica.

We are offering a rare opportunity to do what may seem like an ordinary job in the most extraordinary place on Earth. The UK's polar research effort is critically important for understanding environmental issues that affect everyone. Antarctica is also the most exhilarating and spectacular workplace you could imagine.

You will have served a full apprenticeship, have a BTEC, relevant City & guilds or NVQ with a recognised qualification within the within the petrol/diesel fuelled engine maintenance industry, and have post qualification/apprenticeship practical site experience.

With high levels of self-motivation and strong team-working skills you will be able to manage your time well, anticipate problems and take responsibility for reporting issues to your managers and fellow team members.

Purpose

As a member of the Engineering and Technology Team (Estates) you will be responsible for supporting planned maintenance, reactive repair, up-keep of all static and mobile electrical power producing plant and equipment on Station, including all non-mobile plant and equipment i.e. Nifty Lift, air compressors, chain saws etc. Using your own initiative you will be required to undertake duties without direct technical guidance on site, but you will know when to seek advice or guidance.

Qualification

Served full apprenticeship, BTEC, relevant City & Guilds or NVQ. Recognised qualification within the petrol / diesel fuelled engine maintenance industry.

Duties

Working under the direction of, and reporting to, your line manager and Research Station Leader you will contribute your expertise and skills to support the efficient operation, maintenance and repair of:

- All electrical power producing plant and equipment.
- All non-mobile plant and equipment.
- All aspects of Station electrical power production.
- All Mobile generator plant.
- All non-mobile plant and equipment i.e. Nifty Lift, air compressors, chain saws etc.
- All aspects of power generation controllers.

To ensure that operational needs of the research station are met efficiently and effectively you will be responsible for:

- Responsible for all generator maintenance schedules
- Responsible for refuelling the Station wide fuel tanks.
- Reporting of problems or work requests to the line manager.
- Carrying out works as directed by the line manager.
- Carrying out the pre-planned maintenance (PPM) programme.
- Carrying out non-routine repair and maintenance as necessary, to ensure the safe, efficient and effective operational needs of the Station.
- Carrying out and supervising the installation of refurbishment works as required to meet the efficient and effective operational needs of the Station.
- Maintenance of tools and resources required to complete all maintenance and repair works.
- Maintaining and revising material and tools stock lists, to ensure that sufficient and adequate spares, equipment and materials are available to carry out all required PPM. Including all planned and programmed repair / replacement works for the following year.
- Reporting and documenting all works carried out through the PPM system.
- Recording and documenting of all reactive works carried out.
- Recording and advising on the requirement to add elements to the PPM system.
- Recording and documenting weekly and monthly installed meter readings.
- Production of an annual report on the condition of Station plant conditions and services, which should include any recommended improvements.
- Work with and 'stand in for' other staff to ensure the efficient and effective operational needs of the Station are maintained.
- Undertake other general duties as required or directed by the line manager and Station Leader.
- To undertake other duties as required by the director of BAS

We welcome applications from all sections of the community. People from ethnic minorities and disabled people are currently under-represented and their applications are particularly welcome. We operate a guaranteed interview scheme for disabled candidates who meet the minimum criteria for the job role.

You will need to be physically capable and medically fit to work in Antarctic conditions.

Skills Specification

Skills are listed as either Essential or Desirable. Desirable skills importance rating in parenthesis (1 is high, 5 is low)

Communication skills - a) oral skills b) written skills

- Fluent in both written and spoken English. - Essential
- Able to read and interpret drawings. - Essential

Computer / IT skills

- Basic computer operating skills; using the Microsoft Office suite of programmes. - Essential
- Use of e-mail systems. - Essential
- Use of electronic pre-planned maintenance systems (PPM). - Desirable [2]
- Report writing. - Desirable [3]

Decision Making

- Ability to work within a management structure. - Essential
- Be self motivated. - Essential
- Ability to report any problems or issues to line manager. - Essential
- Good problem solving skills. - Desirable [2]
- Flexible approach to all tasks and duties given. - Desirable [2]

Interpersonal skills

- Ability to work either individually or as part of a team. - Essential

Managerial ability

- Able to plan and manage both time and workload. - Essential

Qualifications

- Served full apprenticeship, BTEC, relevant City & Guilds or NVQ. - Essential
- Recognised qualification within the petrol / diesel fuelled engine maintenance industry. - Essential

Resource Management ability

- Ability to use tools and materials in a workmanlike manner. - Essential
- Understanding and experience of the importance of stock control, monitoring and ordering. - Essential

Skills / Experience

- Practical post qualification/apprenticeship site experience. - Essential
- Knowledge and experience of light industrial electrical power generators and systems. - Essential
- Knowledge of engine maintenance. - Essential
- Knowledge of power generation control systems i.e. Deep Sea controllers. - Essential
- Knowledge of maintenance for small petrol and diesel fuelled plant and equipment. - Desirable [2]