



**British
Antarctic Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

Maintenance Technician (Electrical) – Winter – 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

Antarctica is the coldest and most isolated continent in the world. It's also the most exhilarating, providing a unique and spectacular setting for our vital scientific research. By joining the team responsible for building and maintaining our facilities and equipment, you could play a crucial role in our success.

Responsible for the maintenance, repair, support and upkeep of all electrical services on the station, you will be expected to work on all aspects of the electrical trade, including installations, breakdowns and testing. Using your own initiative, you will be required to undertake duties without direct technical guidance on site. You will need a full electrical apprenticeship, and will have attained a relevant BTEC or City & Guilds qualification, together with practical experience.

Purpose

To take responsibility for all planned maintenance, reactive repair, support and upkeep of all electrical and associated services on Station.

Qualification

Served full apprenticeship, BTEC, relevant City & Guilds or NVQ. Recognised qualification within the electrical services industry.

Duties

Be responsible for the operation, maintenance and repair of:

- Refrigeration systems
- Fire Alarms

- General lighting & power
- All electrically operated fans, motors, pumps etc
- Fire extinguishers.
- Breathing apparatus
- Domestic appliances, fridges, freezers, washing machines, tumble dryers etc.
- All electrical aspects of Station power from 12v, 110v, 230v and 415v (3 phase) supplies.
- Building management systems (BMS).
- Carrying out all required portable appliance testing (PAT).
- Incinerators
- Electrical controls
- 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.
- Recording and documenting test results on electrical installations.
- Production of an annual report on the condition of Station electrical 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

- Use of e-mail systems. - Essential
- Able to plan and manage both time and workload. - Essential
- Use of electronic pre-planned maintenance systems (PPM). - Essential
- 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 - Essential
- Ability to work either individually or as part of a team. - Essential
- Flexible approach to all tasks and duties given. - Desirable [2]

Managerial ability

- Ability to use tools and materials in a workmanlike manner. - Essential

Numerical ability

- Basic computer operating skills; using the Microsoft Office suite of programmes. - Essential

Qualifications

- Served full apprenticeship, BTEC, relevant City & Guilds or NVQ. - Essential
- CSCS Certificate. - Desirable [5]
- Electrical inspection and testing Qualification. (C&G 2391 or 2394 & 2395) - Desirable [2]
- Recognised qualification within the electrical services industry. - Essential

Resource Management ability

- Understanding and experience of the importance of stock control, monitoring and ordering. - Essential

Skills / Experience

- Practical post qualification/apprenticeship site experience. - Essential
- Knowledge of light commercial electrical power supply systems. - Essential
- Experience of building management systems (BMS). - Essential
- Experience of refrigeration systems. - Essential
- Experience of fire suppression systems. - Essential
- Experience of LV & HV systems and equipment. - Desirable [2]
- Experience of domestic appliances. - Desirable [1]
- Experience of heat pumps. - Desirable [1]
- Experience of cooling systems. - Desirable [1]
- Experience of electrical power generation. - Desirable [1]
- Experience of control panels, including relays, contactors and PLC's. - Desirable [1]
- Experience of 3 phase motors & pumps. - Desirable [1]