

SITE ELECTRICAL TESTING ENGINEER

We are a well-established, family-owned business and a leading manufacturer of electrical power distribution equipment based in Leeds. As pioneers of ultimate low loss amorphous transformer technology, we deliver innovative solutions that reduce energy usage, lower costs, and cut carbon emissions.

We are seeking an experienced Site Test Engineer to join our Operations team. This role is primarily site-focused, requiring regular travel across the UK and, where required, overseas.

The Role:

Reporting to the Head of Site Services, you will be responsible for the on-site testing, commissioning and maintenance of transformers and associated equipment.

This is a hands-on role combining mechanical, electrical, and testing responsibilities, requiring a high level of technical competence, safety awareness, and the ability to work independently on customer sites.

Key Responsibilities

- Lead and carry out on-site transformer testing and commissioning activities
- Perform mechanical assembly and installation of transformers and associated equipment in line with Transformer testing procedures
- Carry out fault finding, diagnostics, and repair work
- Undertake transformer maintenance activities
- Read and interpret technical drawings and schematics
- Complete all test documentation and reports accurately
- Ensure all work is carried out in line with site RAMS and Health & Safety requirements
- Represent the business professionally when working with customers and stakeholders
- Travel regularly to sites across the UK and overseas as required

Transformer Testing Scope

Power Transformers

- Insulation Resistance
- HV Withstand Testing
- Transformer Ratio Testing
- SFRA
- Winding Resistance Testing
- HV & LV CT Testing
- Bushing Testing including Tan Delta
- Tapchanger Checks
- Buchholz Relay Alarm and Trip Testing
- OTI and WTI Calibration
- PRD, MOG, Air Bag Relay and Oil Surge Relay functional checks
- Marshalling Box testing
- Cooling system checks including fans
- Rupture Detector Relay testing
- Impact Recorder results review
- Oil sampling including pre- and post-circulation analysis
- Ashridge setup

Distribution Transformers

- Insulation Resistance testing
- Applied Voltage / HV Withstand testing
- Winding Resistance testing
- Transformer Ratio testing
- Vector Group verification
- HV and LV CT testing
- Marshalling and control wiring checks
- Functional testing of auxiliary equipment including:
 - Breathers
 - OTI and WTI
 - Magnetic Oil Gauge
 - Buchholz relay
 - Pressure Relief Device
 - Pressure and vacuum gauges

Additional Site Responsibilities

Mechanical Assembly

- Installation of radiators, conservators, and cooling systems
- Mounting HV and LV bushings and tap changers
- Gasketing and sealing to prevent oil leaks
- Installation of marshalling boxes, cable tray, and accessories
- Torque checking of fixings

Electrical Assembly

- Termination of internal and external wiring
- Installation and wiring of control and protection devices
- Performing functional checks on alarms and trips

Maintenance and Refurbishment

- Oil draining, filling, and filtration support
- Replacement of gaskets, seals, and breathers
- Inspection and upgrading of transformer accessories
- Oil sampling for analysis

Site Safety and Compliance

- Setting up safe working areas and barriers
- Following RAMS and site safety rules
- Use of lifting and rigging equipment
- Reporting hazards, near misses, and incidents

Knowledge and Experience

- Proven experience in electrical testing within an engineering environment
- Demonstrable experience in transformer testing and commissioning (essential)
- Experience working in site-based roles and live environments
- Relevant electrical qualifications and strong knowledge of regulations
- Ability to read and interpret electrical drawings and schematics
- Strong understanding of Health and Safety and safe systems of work
- Methodical approach with strong attention to detail
- Good communication skills and ability to work independently on site
- Flexible and willing to travel as required

Salary and Benefits

- Competitive salary (depending on experience)
- 25 days holiday plus bank holidays
- Company profit share scheme (paid quarterly)
- Healthcare cash plan and Employee Assistance Programme
- EV salary sacrifice scheme and EV charging on site in Leeds
- Pension scheme

How to Apply

Please send your CV to hr@wilsonpowersolutions.co.uk . All applicants must have the right to work in the UK. No agencies please.