



Senior Engineering Manager

Department	PNDC (https://pndc.co.uk/), Department of Electrical and Electronic Engineering (http://www.strath.ac.uk/engineering/electricelectricalengineering/)		
Faculty	Faculty of Engineering (www.strath.ac.uk/engineering/)		
Staff Category	Administrative and Professional	Reference No	600518
Reports To	PNDC Operations Director	Grade:	9
Salary Range:	£57696 - £64914	Contract Type:	Open Contract
FTE	Flexible – part or full time considered	Closing Date	07/04/2024
Holidays	31 days + 11 statutory days Option to purchase additional holidays		
Pensions	Defined benefit pension scheme available to all staff including generous employer contribution.		
Training	Professional Development with Organisational and Staff Development Unit (OSDU) plus external training if required		
Family Friendly Benefits	Generous parental leave provision and options for flexible working		
Health and Wellbeing	University Sport centre, Occupational Health service, access to health and wellbeing events, cycle to work scheme, Employee Assistance Programme, agile working and established carers support network and carer friendly policies		

Job Advert

We are seeking to appoint a Senior Engineering Manager to provide technical leadership at our new 'Whole Energy' (electrical, thermal, gas and transportation) research facility at Inchinnan and support our existing technical team at our research and test facility in Cumbernauld. Preferably a chartered engineer with Senior Authorised Person (SAP) experience, this position will interest someone with an engineering background; ideally from a petrochemical or process manufacturing industry or perhaps a DNO (distribution network operator),

The successfully candidate will be a member of the PNDC senior management team influencing key decisions of the organisation in the context of the evolution and operation of the centres test and demonstration facilities. This is an exciting role overseeing technical operations and supporting the development and deployment of bespoke testing solutions for the latest emergent power network, thermal, gas and transport technologies.

You will have primary responsibility for the management and safe operation of the electrical distribution and energy systems test infrastructure at our new facility in Inchinnan whilst providing technical leadership and support to our Cumbernauld facility. Reporting to the Operations Director you will ensure the quality and efficient operation at both facilities, holding responsibility for the safe operation and maintenance of the centres testing capabilities.

You will have a solid background in LV/HV networks having been a Senior Authorised Person (SAP) in a previous role. In the role you will lead upgrades and maintenance activities for all centre infrastructure, plant and equipment, designing and implementing policy and procedures relevant to the safe deployment, operation & maintenance of the testing facilities.

You will manage a team of electrical engineers who work closely with PNDC's innovation engineers and industry clients to provide demonstration and testing services of innovative technologies. You will grow the Inchinnan facility team, spanning beyond

electrical engineering to include mechanical and other engineering disciplines, initially contracting in this resource until such time it is commercially beneficial to recruit and build capability within that team.

We are looking for a person who thrives on solving technical challenges, who is a self-starter and proactive in approach, and who has strong communication and interpersonal skills, with an ability to interact with a range of industrial partners, clients and colleagues.

About PNDC

PNDC is one of the University of Strathclyde's industry-facing innovation centres, focussed on the de-risking and acceleration of novel energy technologies and systems towards commercialisation. When launched back in 2013, PNDC pioneered a new model – working and closely collaborating with DNOs and their supply chain partners to enable rapid adaptation to the challenges of decarbonisation, decentralisation, and digitalisation. Over the past decade, we've established ourselves as trailblazers, supporting over 300 projects piloting innovative solutions, and building strong relationships with many partners across the energy sector. Our entrepreneurial approach and partnership model is recognised and trusted by our ecosystem.

Now, we are expanding our focus to address "whole energy system" integration across electricity, heat, hydrogen, and transport through launching new facilities, flagship projects and strategic collaborations. This represents a huge opportunity for PNDC to play an even more impactful role innovating, developing and demonstrating the technologies and business models that will define the energy system of the future and accelerate the transition to net zero.

Rewards & benefits

As part of the University of Strathclyde, PNDC offers a wide range of benefits including a defined benefit pension scheme, a generous holiday entitlement, and discounts to the state-of-the-art Strathclyde Sport gym and leisure facilities. The University also currently holds a Bronze Athena SWAN award, recognising our commitment to advancing women's careers in science, technology, engineering, maths and medicine (STEMM) employment in academia offers a dynamic and varied environment, providing the opportunity to be involved in leading-edge work within the energy sector.

Job Description

Brief Outline of Job:

You will provide leadership in the professional engineering arena and put those skills to practical use in order to deliver testing regimes in a safe and cost-effective manner at both PNDC facilities. You will introduce and maintain safe systems of work that provide an effective environment for PNDC's research and technical support engineers to work in keeping with project goals and PNDC objectives. You will be required to develop, evolve and implement the centres' Safety Rules and Procedures across both facilities.

Your team of engineers will have responsibility for all site testing operations as well as maintenance and upgrade of testing facilities. This will include providing input to the commissioning and operation of the new facility at Inchinnan.

You will also play a significant role in the future development of both centres, advising and influencing senior management on potential technical innovations for PNDC and leading the introduction of new functionality as appropriate. You will lead the specification and co-ordination of all maintenance activities on PNDC's testing and demonstration assets. You will engage with research engineers, external industrial partners and commercial clients to ensure that PNDC is meeting their needs, that operational arrangements are effective and to establish what changes may be required.

Main Activities/Responsibilities:

1.	Lead and manage the engineering teams to safely deliver testing and demonstration projects whilst ensuring strong team and facility utilisation levels in line with the business plan.
2.	Manage competing priorities for access to the facility assets and infrastructure, while supporting the delivery of a portfolio of commitments.
3.	Work with the professional innovation team to develop testing plans and manage the safety input and design of bespoke testing solutions for projects in relation to H.V. and L.V. systems and machines, protection equipment, stored energy systems including battery, thermal, gas, kinetic and any other equipment at PNDC's facilities.
4.	Own implementation of the PNDC Operational Safety Rules and Safety Procedures for work on the High Voltage and Low Voltage systems, ensuring we operate in accordance with legislative requirements. Be responsible for the development of similar procedures for our new energy whole system capabilities including high-power electrical drive train testing, and thermal and hydrogen innovation.

5.	Lead upgrades activities for all PNDC infrastructure, plant and equipment. Oversee procurement of equipment and contracting third party installation services for infrastructure, plant and equipment, ensuring everything is properly installed and functioning safely before being put into operation.
6.	Manage and update PNDC safety documentation as necessary, incorporating necessary guidance from manufacturers, utilities, or the National Equipment Defect Reporting Scheme (NEDeRS). Arrange audits of safety practices as appropriate.
7.	Own the PNDC facilities' inspection, maintenance and testing programmes, executing a clearly defined maintenance plan, aligning the schedule with project delivery so as to maximise availability of the testing equipment and deliver a high standard of operational readiness. Ensure all inspections and tests are compliant with legislation and internal codes of practise and maintain appropriate record keeping.
8.	Support managing resources and budgets in relation to the installation of new equipment and associated secondary plant at PNDC as the organisation expands or as project needs arise, ensuring this is done in a safe, controlled and cost-effective manner.

Person Specification

Educational and/or Professional Qualifications

(E=Essential, i.e. a candidate must meet all essential criteria to be considered for selection, D=Desirable)

E1 Degree qualified in a relevant discipline or equivalent experience.

D1 Chartered Engineer status.

D2 Relevant experience in a petrochemical or process manufacturing industry or a DNO (distribution network operator).

Experience

E2 Significant experience in operation and maintenance of H.V. and L.V. electrical networks.

E3 Significant experience of electrical system design and commissioning.

E4 Significant experience of safety documentation and safe systems of work, including the implementation of these documents.

E5 Good knowledge of H&S legislation and HSE requirements.

E6 Experience of line managing a team, including providing support and guidance and conducting annual reviews and setting performance standards

D3 Experience of preparing management reports and the ability to present these at senior forums.

Job Related Skills and Achievements

E7 Capable of introducing and enforcing safe operational practices.

E8 Ability to plan and organise own workload effectively with general supervision from senior colleagues.

E9 Demonstrable ability to play a senior role within a team environment and motivate and lead staff, with experience of leading teams of less experienced staff.

E10 Capable of effective planning and scheduling.

D4 Proven staff, budget and project management skills.

Personal Attributes

E11 Ability to think critically and strategically and to provide effective advice

E12 Be able to demonstrate a behavioural approach to operational safety.

E13 Be able to demonstrate ability to accommodate rapidly changing situations and handle competing demands.

E14 Excellent verbal and written communication skills with an ability to interact with a range of stakeholders in both industry and academia.

Other Relevant Factors

E15 An ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences

D5 Driving license.

Application Procedure

Applicants are required to complete an application form including the name of three referees who will be contacted without further permission, unless you indicate that you would prefer otherwise. Applicants should also submit a Curriculum Vitae and a covering letter detailing the knowledge, skills and experience you think make you the right candidate for the job. Applicants should also complete the Equal Opportunities Monitoring Form.

Other Information

Further information on the application process and working at Strathclyde can be found on our website (<http://www.strath.ac.uk/hr/workforus>).

Informal enquiries about the post can be directed to Brian Young, Operations Director (brian.young@strath.ac.uk).

Conditions of Employment

Conditions of employment relating to the Administrative and Professional staff category can be found at: [Conditions of Employment](#).

Rewards and Benefits

Our staff have access to a wide range of outstanding benefits that include financial rewards, family friendly and wellbeing benefits and career development opportunities, details of which can be found [here](#).

Probation

Where applicable, the successful applicant will be required to serve a 12 month probationary period.

Pension

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding this scheme is available from [Payroll and Pensions](#).

Interviews

Formal interviews for this post will be held on a date to be confirmed. Interviews may take place during the advertised period and this position may be closed early if a suitable candidate is found.

Equality and Diversity

The University of Strathclyde is a socially progressive institution that strives to ensure equality of opportunity and celebrates the diversity of its student and staff community. Strathclyde is people-oriented and collaborative, offering a supportive and flexible working culture with a deep commitment to our equality, diversity and inclusion charters, initiatives, groups and networks.

We strongly encourage applications from Black, Asian and minority ethnicity, women, LGBT+, and disabled candidates and candidates from lower socio-economic groups and care-experienced backgrounds.

University Values

The University's Values capture what we're all about: who we are, what we believe in and what we stand for. [Our Values](#) have been derived from how we act and how we expect to be treated as part of Strathclyde.

