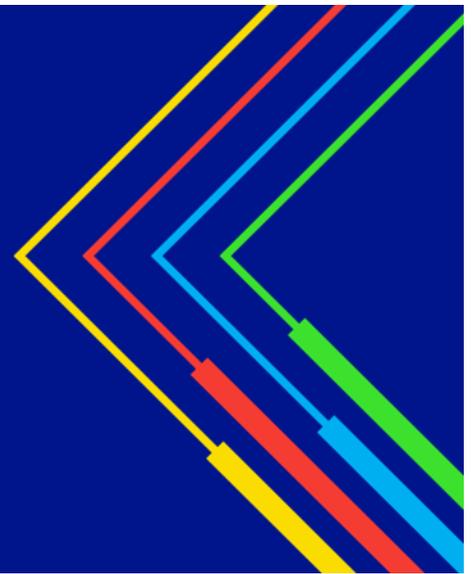


FutureGrid Senior Engineer GSO Spadeadam, Cumbria



The FutureGrid Programme

To achieve our commitment to reaching net zero by 2050, we need to consider how we can deliver low carbon energy reliably and safely to all consumers.

One route we are exploring is through our FutureGrid programme. FutureGrid aims to demonstrate how we can re-purpose our existing National gas transmission system to enable it to transport hydrogen. We will do this by building an offline hydrogen test facility at DNV-GL's research facility at **Spadeadam in Cumbria**.

[Click here to read more](#) about the FutureGrid programme or [click here to watch our video](#).

National Grid are an equal opportunity employer and welcome applicants from a range of diverse experience and background. Where possible, we work in a flexible manner to maintain a positive home life balance.

About the Role

We have an excellent opportunity for a **Senior Engineer (GSO)** to join National Grid Gas to work on the FutureGrid Programme.

As the FutureGrid Senior Engineer for GSO, you will provide specialist technical capability in developing, evaluating and delivery of engineering and asset solutions for the FutureGrid facility and roll this range of technologies and disciplines associated across the UK transmission system to enable to the transmission of Hydrogen and meet legislative requirements and company objectives.

In this role, you will focus on network systems and control aspects of the FutureGrid facility including electrical, metering, gas quality, telemetry, control and instrumentation, IOT and simulation. You will also provide specialist technical capability in the development and implementation of additions, changes and alterations to the Gas National Transmission System (NTS) to meet Hydrogen System Operator (SO) Capability requirements; whilst ensuring the system continues to transport energy to our customers safely, efficiently and reliably, meeting business performance objectives under RIIO.

Key Accountabilities:

- Lead the technical inputs to the FutureGrid facility and develop solutions to technology gaps;
- Support testing and analyse the test results to provide insights on the impact of Hydrogen on the NTS system;
- Contribute to the development of asset solutions to meet SO needs case requirements from basic capability requirement through to the development of the technical options report in line with relevant planning and consenting legislation and good practice;
- Lead the development of gas transmission procedures, specifications, engineering and safety instructions/bulletins for Hydrogen, within sphere of expertise and provide input to the development of target and policy in area of expertise;
- Contribute to the creation of Basis of Design Documents (BoDD's), following on from the technical options report, as the technical specification of the output to be progressed through the Network Development Process to delivery;
- Ensure that the BoDD documents the reason for the investment, the options considered, costs and programme (including availability of outages where appropriate), ensuring this is agreed by all stakeholders and then oversee its progress through the relevant governance processes up to and including project closure;
- Support the development of operational procedures and techniques for Hydrogen transport through the NTS;
- Operate with both the FutureGrid project team and the wider virtual team to achieve the FutureGrid objectives, plans and targets to enhance performance, condition, records and compliance with statutory requirements;
- Develop designs and plans to ensure the gas transmission system and associated assets can meet future capability requirements for Hydrogen including stakeholder requirements with suitable business cases to secure funding;
- Produce details reports, data and information to inform asset management decisions to a range of audiences, both internal and external to the company, acting on outputs and instigating improvement programmes when identified;
- Seek improvements to existing ways of working and develop solutions to deliver an increased performance in area of expertise, using outputs to inform and update company procedures;
- Conduct audits, incident investigations and details inspections to manage risk, while creating value for the business;
- Within sphere of expertise, provide support and guidance on asset integrity issues, deviations or deferrals of current policies and ensure effective communication;
- Liaise to external bodies on the FutureGrid project at events such as conferences, webinars and other dissemination activities to maximise value for the business.

About You

We're looking for someone who has knowledge/experience in:

- Operational or technical asset management in gas transmission or petrochemical environments;
- Technical issues management;
- Financial management;
- Policy and specification drafting;
- Asset engineering technical disciplines;
- National Grid gas transmission plant and equipment;
- National Grid gas safety management systems.

You will need to be able to demonstrate the ability to:

- **Negotiate and influence;**
- **Develop working relationships** quickly and effectively across all levels of the organisation;

- Think **logically** and demonstrate **numerical proficiency**;
- **Solve problems**, analysing information, enabling you to proactively identify and assess root causes to problems and adopt a rational approach to eliminate cause issues;
- Effectively **communicate** (verbally and in writing) including making persuasive presentations to small audiences.

It is **essential** that you hold a full UK driving licence. It is **preferred** that you have minimum of degree level education in an engineering, scientific or numerical field, **although relevant experience**, aptitude and/or training/qualifications will be considered.

What You'll Get

A competitive salary between **£42,500-£53,700** dependent on capability.

As well as your base salary, you will receive a bonus based on personal and company performance and a competitive contributory pension scheme where we will double match your contribution to a maximum company contribution of 12%. You will also have access to a number of flexible benefits such as a share incentive plan, salary sacrifice car and technology schemes, support via employee assistance lines and matched charity giving to name a few.

Further Information

Opportunity Type: 2-year fixed term contract

Location: Spadeadam, Cumbria – however, the successful candidate can be based elsewhere on the basis that they are willing to travel regularly to Spadeadam, Cumbria, including overnight stays (up to 3-4 days a week).

Closing Date: See job posting on careers site

Expected Start Date: April 2021