



Role: Senior Design Engineer E,C&I – Compressors (x2)

Area: AAI Asset Delivery

Sub-Area: Design Delivery

Location: Dublin/Cork

Salary: Competitive

Duration: 3 Year Fixed Term **Ref:** GNI903

Gas Networks Ireland operates and maintains Ireland's €3bn, 14,725km national gas network, which is considered one of the safest and most modern renewables-ready gas networks in the world.

Almost 725,000 Irish homes and businesses trust Ireland's gas network to provide efficient and reliable energy to meet their heating, cooking, manufacturing and transport needs.

The gas network is the cornerstone of Ireland's energy system, securely supplying more than 30% of Ireland's total energy and over 40% of the country's electricity generation.

Gas Networks Ireland is aiming to deliver a repurposed, resized and fully decarbonised gas network by 2045. Its "Pathway to a Net Zero Carbon Network" envisions transforming the existing gas network into two separate systems carrying 100% renewable gas, one dedicated to biomethane and the other to green hydrogen, with the potential to carry approximately 30% biomethane and 70% green hydrogen, as well as offering significant long term energy export opportunities.

Gas Networks is an organisation with a very strong legacy and a culture founded on pride in our purpose, to keep Ireland's energy moving, and commitment to our vision, to be at the heart of Ireland's energy future. Our organisational values demonstrate what is important across the organisation including building on our experience across our organisation to build towards our sustainable future, doing what's right for each other and for the people and communities that we serve and finally energised for the change of our future towards a renewable energy landscape. Throughout your career in Gas Networks Ireland, you will be part of an organisation that has a strong commitment to supporting and developing our workforce today and into the future. You will also have an opportunity to get involved in our ambitious iBelong programme ensuring a diverse, equitable and inclusive environment for us all to thrive. Finally, our Time to Talk Mental Health programme and our wellbeing initiatives ensure we provide support across many areas as you work in our organisation.

Gas Networks Ireland has pledged to reduce Green House Gas Emissions by 50% by 2030. A key aspect to this pledge is the addition of electric machine driven compressors in Scotland to provide compression for our gas network replacing the existing gas fired compressors.

Gas Networks Ireland is now seeking to appoint two Senior Design Engineer, Electrical, Control and Instrumentation (E,C&I) to primarily work on the design and integration of electric machine drive compressor projects. However, flexibility and the willingness to work on other compressor projects may be necessary.

The Role:

The Asset Delivery function within Gas Networks Ireland is responsible for the end to end planning, designing and delivery of GNI's portfolio of asset development programmes. The Asset Delivery function brings together all the technical and project support capabilities needed to take high-level projects and programmes from the Portfolio Office and translate these through from detailed design and project planning, to construction delivery and handover to Asset Operations.

Reporting to the Design Delivery Lead - SWSOS Decarbonisation, the Senior Design Engineer Electrical, Control and Instrumentation (E,C&I) will primarily have responsibility for the preliminary and detailed design of the incoming high voltage connection to site and the integration of additional electrical machine drive compressors. The Senior Design Engineer will manage the design element of projects (end to end) and outsourced engineering providers ensuring a high-quality design service is delivered within Design Delivery. The successful candidate will have the ability to effectively diagnose technical issues and have knowledge of gas related process design. The Senior Design Engineer E,C&I will ensure the end to end design process is aligned to meet the overall project and programme timelines within Design Delivery.

Duties and Responsibilities:

- Lead a team comprised of internal design engineers, seconded engineers and engineering service providers to deliver the design of transmission and distribution E C&I projects or programmes.
- Managing the design in accordance with the Engineering Design Manual, including design review, design deviation process, material inspections, tender document preparation, comprising pipelines, network modifications, pressure reducing installations, ATEX etc. across the network.
- Provide technical design support to design engineers developing and maintaining internal engineering design competence.
- Review, validation, appraise, challenge and ultimately accept designs where designs are outsourced ensuring compliance with industry standards.
- Lead innovation within design incorporating best practice engineering.
- Attendance of factory acceptance testing for all aspects of materials as required.
- Lead as required to enable the completion of HAZID or HAZOP including recording risks on the internal risk management system, functional safety, safety integrity levels etc.
- Ensure all design documentation is fully and accurately completed, loaded onto Sharepoint system, appropriate procedures and controls are in place ensuring compliance with the design process.
- Support sustainability where reasonable within the design process e.g. materials.
- Lead and facilitate enablement of cyber security within the design process.
- Lead & support the organisation to maintain continuity of E,C&I material & service framework agreements, provision of pre-tender technical requirements, evaluation & award.
- Lead and support the enablement of material frameworks for design of projects or programmes including evaluation and scoring of supplier competitions and responding to material clarifications.

- Contributing to the continuous improvement of internal design processes and procedures including ISO: 9000 in the Design environment and attending audits.
- Co-ordination of specialist technical services and third-party resources as part of the design process to enable delivery of designs.
- Lead and ensure alignment across design with other Senior Design Engineers (E,C&I / Mechanical) within the design team e.g. knowledge sharing, and lessons learned from projects.
- Performing other duties as assigned from time to time.
- The role will involve oversight of programmes of work that will be delivered in Scotland requiring regular travel to site.

Knowledge, Skills and Experience:

- Degree in Electrical, Electronic or Instrumentation Engineering (Level 8) with a minimum of five years design engineering experience, preferably in the natural gas industry.
- Technical proficiency in electrical, control & instrumentation, cathodic protection, design, asset selection & specification.
- Experience in High Voltage engineering and design would be advantageous
- Competent in electrical Installation design & explosive atmospheres, ATEX equipment selection, installation, inspection & testing. Working knowledge of hazardous area classification.
- Working knowledge of remote telemetry, SCADA system architecture and industrial data communications.
- Competent in natural gas quality & fiscal measurement design. Detailed knowledge of primary & secondary metering system design & specification including ultrasonic, turbine, rotary displacement flow meters, natural gas sampling & gas chromatography.
- Working knowledge of Construction and H&S regulations, risk management practice e.g. hazard identification & design risk assessment.
- Knowledge of Process Hazard Analysis (PHA), HAZOP/HAZID/HAZCON, Functional Safety, Layers of Protection Analysis (LOPA), ALARP principles.
- Working knowledge of relevant Gas Standards, Codes of Practice. Awareness of statutory requirements.
- Knowledge of public & utility procurement.
- Facilitate the implementation and acceptance of change within the workplace.
- Provide coaching in the development of technical skills and abilities in others.
- Proactively identifying new areas of learning and using newly gained knowledge and skill on the job.
- Driver of high standards for individual, team and organisational accomplishment and delivering desired results.
- Proven track record with dealing with complex issues, problem solving, in a timely fashion, along with the ability to communicate complex information to others.
- Ability to set own high standards of performance and delivering desired results.

Applications, including current Curriculum Vitae, should be emailed to the following address stating the job title and reference number in the subject line of your email: recruit@gasnetworks.ie

The closing date for receipt of applications for this vacancy is the
12th of May 2025

Please note that applications submitted after this closing date will not be accepted.

Gas Networks Ireland is an equal opportunities employer

We are committed to providing a diverse and inclusive place of work and have a robust strategy and framework called ibelong to enable this. We are an equal opportunity employer and through our recruitment process we welcome and encourage applications from interested and suitably qualified individuals regardless of gender, age, racial or ethnic origin, membership of the traveller community, religion or beliefs, family or civil status, sexual orientation/gender identity or disability.

GNI will only hold your data for as long as necessary. By providing a CV to GNI you are agreeing for GNI to process this information about you. If you have any question about how GNI processes your data please see our Privacy Notice. If you have further questions, you can contact us at dataprotection@gasnetworks.ie