

Careers

Renewable Energy Systems Software Engineer, Belfast

Join our expanding team of innovators and technical professionals in delivering solutions that have an impact on our vision to clean and decarbonise the air.

Position

The Renewable Energy Systems Software Engineer designs, develops, and maintains software systems for industrial equipment, machinery, and automation processes. This role combines electrical engineering and software development expertise.

Position Responsibilities

- Design and develop software systems for industrial equipment and machinery control, monitoring, and automation.
- Create software architecture plans, interface controls, system models, and integration schemes.
- Program PLCs, HMIs, SCADA systems, robots, IoT devices, and other industrial software platforms.
- Write code to interface instrumentation, sensors, drives, and other hardware with software systems.
- Develop data acquisition, analysis, and reporting features for manufacturing analytics.
- Troubleshoot issues with software-hardware interaction, synchronization, and performance.

- Document software development plans, configuration, quality assurance protocols, and standard operating procedures.
- Conduct testing to ensure software systems meet functional specifications and performance criteria.
- Provide software support and updates to correct vulnerabilities and optimize functioning.

Essential Requirements

- Bachelor's degree in Software, Computer, or Electrical Engineering.
- 3+ years experience developing industrial automation software.
- Hands-on experience programming PLCs, HMIs, drives, and industrial control devices.
- Proficiency in languages like C++, .NET, Python, SQL, ladder logic.
- Understanding of instrumentation, sensors, motion control, electronics, and communication protocols.
- Debugging and troubleshooting skills related to industrial software and hardware interaction.
- Detail-oriented with good documentation skills.
- Strong analytical and problem-solving capabilities.

Interested?

Send your CV to careers@catagen.com

Benefits:

- Competitive basic salary commensurate with experience.
- Benefits package including – Company Pension, Private Medical, Cycle to Work Scheme etc.

About CATAGEN

CATAGEN is a pioneering testing facility delivering industry leading emissions data to global OEMs and stakeholders. Based in Belfast, our independent services provide unrivalled metrics to optimise catalyst development and reduce harmful tailpipe emissions.

Using technology, talent, and a united sense of purpose, CATAGEN have developed ClimaHtech. ClimaHtech is an acceleration system towards decarbonisation using advanced climate technologies to produce renewable hydrogen and E-Fuels.

Our testing and climate technologies are shaping the environment of our future by working towards cleaner air for our cities.

Values

ONE CATAGEN - We put 'we' before 'me' working across boundaries, holding each other accountable and working as a cohesive team.

FEARLESS - We challenge ourselves to push beyond what we think is possible by taking risks and learning new skills.

CUSTOMER OBSESSED - We actively engage, listen and learn from our customers, making it easy to work with us. We deliver solutions in a timely and accurate manner.

ECONOMICALLY DRIVEN - We're ambitious in our 'financial goals' whilst being prudent with resources. We respect that we are a corporate business whose first goal is to be financially secure and to grow and identify new opportunities.

SUSTAINABILITY - We built CATAGEN 'to clean and decarbonise the air', to impact climate change through the development of innovative Net Zero Technologies.

Interested?

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