

## Job Opportunity: Experienced Clean Water Surge Modeller

Location: UK-based (Flexible/ Fully Hybrid)

Salary: Competitive, based on experience

Contract Type: Full-time, Permanent

### About the Role

We're seeking a highly skilled and motivated Clean Water Surge Modeller to join our dynamic team, supporting major UK water utilities in the delivery of resilient, data-driven network solutions. This role is ideal for someone with deep expertise in surge analysis, transient modelling, and hydraulic simulation, who thrives in a collaborative environment and is passionate about protecting clean water infrastructure.

### Key Responsibilities

- Lead surge and transient modelling projects across clean water networks using industry-standard software (Bentley Hammer would be good).
- Analyse pump start/stop cycles, valve operations, and network configurations to identify risk areas and mitigation strategies.
- Collaborate with hydraulic modellers, asset planners, and operational teams to integrate surge modelling into wider network optimisation and capital planning.
- Interpret SCADA and telemetry data to validate model behaviour and assess transient impacts.
- Support the development of surge protection strategies, including specification of air valves, surge tanks, and control logic.
- Contribute to technical reports, stakeholder presentations, and regulatory submissions.
- Mentor junior modellers and contribute to internal capability development.

### Essential Skills & Experience

- Proven experience in surge/transient modelling within the UK water industry.
- Strong understanding of clean water network hydraulics, asset types, and operational behaviours.
- Familiarity with pressure transients, water hammer effects, and mitigation techniques.
- Proficiency in GIS, SCADA interpretation, and hydraulic modelling platforms.
- Excellent communication skills, with the ability to translate complex technical findings into actionable insights.
- Degree in Civil Engineering, Environmental Engineering, or related discipline.

### Desirable

- Experience working with AI-enhanced modelling tools or real-time event monitoring platforms.
- Knowledge of UK regulatory frameworks and performance metrics (e.g., SI, leakage, resilience).
- Experience in surge mitigation design and field validation.

### Why Join Us?

- Work on high-impact projects with leading utilities and technology partners.
- Be part of a forward-thinking team driving innovation in water network resilience.
- Flexible working arrangements and professional development opportunities, fully hybrid working.

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- A culture that values technical excellence, collaboration, and continuous improvement.
- Good salary and company pension.

### Apply Now

If you're ready to make a difference in the future of clean water infrastructure, we'd love to hear from you. Please send your CV and a brief cover letter outlining your experience to [info@tridentgrp.co.uk](mailto:info@tridentgrp.co.uk)