

In the company of...

# SOLVERS



## Business area: Infrastructure

**Requirements:** On track to achieve a minimum of a 2.2 MEng in Civil Engineering, Structural Engineering or a relevant degree discipline

### Our teams and what they do

#### Building Structures

**Degree requirements:** On track to achieve a minimum of 2.2 MEng or MSc in Civil Engineering or Structural Engineering, achieving a minimum of a 2.1 in structural engineering related modules

**Industrial year placement locations:** N/A

**Summer placement locations:** Epsom, London

We apply technical excellence to the built environment and deliver creative solutions to complex problems to make a more sustainable world. Our collaborative and diverse team of engineers utilise an intelligent digital approach to efficiently design using steel, concrete, masonry and timber, as well as more innovative materials and modern construction methods.

As a Structural Engineering Placement Student within our team, you may be involved in:

- Working within multi-disciplinary teams to develop and deliver designs of buildings and infrastructure. Your tasks could include technical and carbon calculations, reports, whole life cycle assessments, drawings, models and presentations. Your creative input will be valued from day one into all project stages from concept design through to detailed design.
- Representing AtkinsRéalis when assisting with structural inspections on site and attending client and design team meetings.
- Assisting project managers with design leadership and day-to-day management of project programmes, budgeting and stakeholder coordination.
- Engineering support during the construction stage by reviewing drawings for conformance with design and specification and observing construction procedures under the guidance of experienced senior engineers.
- Researching and analysing alternative design approaches to develop sustainability led solutions.

#### Networks and Drainage Solutions

**Industrial placement locations:** Belfast, Birmingham, Peterborough

**Summer placement locations:** N/A

Our Networks & Drainage Solutions team is one of the UK's largest and most diverse water infrastructure teams. We deliver innovative, sustainable, and digitally enabled solutions across the water cycle - from clean water supply to wastewater and stormwater management. Our work spans the UK and international markets, supporting clients such as water companies, local authorities, transport bodies, and developers.

We're involved in a wide range of projects, including:

- Major transportation, energy, and critical infrastructure schemes such as Lower Thames Crossing, Sizewell C, and Heathrow Airport
- Community-focused developments such as EDAROTH and SuDS for Schools initiatives

- Long-term planning for water companies (e.g., DWMPs) and Government (Integrated Water Management Plans)
- International masterplanning and climate resilience strategies
- Reducing environmental impact through CSO spill mitigation

We're looking for passionate and purpose-driven graduates who are ready to make a difference in the water sector. We offer two graduate pathways - Graduate Civil Engineer and Graduate Modeller - each offering unique opportunities to create a better future for the planet and its people. For both pathways, you'll have an interest in water, drainage or environmental infrastructure and you'll be empowered to develop your career through professional accreditation (ICE or CIWEM).

### **Civil Engineering Placement Student**

**Degree requirements:** On track to achieve a minimum of 2.2 BEng in Civil Engineering, Environmental Engineering or Water Engineering

**Industrial placement locations:** Birmingham, Belfast, Peterborough

As a Civil Engineering Placement Student, you'll help design and deliver critical drainage and water infrastructure that supports communities, battles the challenges of climate-change and aging infrastructure, and protects the environment. You'll gain hands-on experience across the full project lifecycle, from concept to construction, while working towards professional accreditation.

Key responsibilities may include:

- Helping produce drainage designs and calculations using tools such as Causeway Flow, InfoDrainage, and QGIS
- Supporting in creation of 2D and 3D models using AutoCAD, Civil 3D, and MicroStation to support multi-disciplinary coordination
- Supporting the delivery of national infrastructure and regeneration projects, including strategies to reduce Combined Sewer Overflow (CSO) spills, and improve water quality
- Contributing to socially valuable projects like EDAROTH, focused on sustainable infrastructure for affordable housing
- Helping in writing technical reports and presenting engineering solutions to clients and stakeholders
- Collaborating with engineers, modellers, and environmental specialists across AtkinsRéalis and with external partners
- Supporting international projects that address global water challenges

### **Modeller Placement Student**

**Degree requirements:** On track to achieve a minimum of 2.2 BEng in Civil Engineering, Environmental Engineering, Environmental Science, Geography or Water Engineering

**Industrial placement locations:** Peterborough

As a Modeller Placement Student, you'll use hydraulic modelling and data analytics to help shape sustainable, resilient drainage and water systems. You'll work on projects that reduce environmental impact, improve community resilience, and support digital transformation in the water sector.

Key responsibilities may include:

- Helping in building and calibrating hydraulic models of water and wastewater networks using InfoWorks ICM, InfoWater, and NetCreate
- Supporting stormwater management planning and sustainable drainage (SuDS) strategies.
- Contributing to catchment analysis and digital master planning for major developments
- Supporting development by applying digital tools using Python, Excel/VBA, and Power BI to derive insights and improve decision-making
- Collaborating with multi-disciplinary teams to identify and solve complex drainage challenges, including reducing CSO spills
- Helping in preparing technical reports and presenting findings to clients and stakeholders
- Supporting both UK and international projects with a focus on innovation and sustainability

### **Ground Engineering**

**Degree requirements:** On track to achieve a minimum of 2.2 Master's degree in Civil Engineering, Earth Science, Engineering Geology, Geology or Geotechnical Engineering

**Industrial placement locations:** Bristol, Epsom

**Summer placement locations:** Cambridge, Cardiff, Leeds

As a Ground Engineering Placement Student, you could be involved in one of the most exciting sectors in civil and environmental engineering. You'll help to support and deliver the technical aspects of a variety of engineering and multidisciplinary designs across a range of challenging and exciting projects in the UK and internationally.

Our Ground Engineering team is committed to providing world class geotechnical and engineering geology services to infrastructure and global energy clients, focusing on the engineering behaviour of the ground for complex new build and asset life extension projects. You'll get involved in a broad range of activities including site investigation, 3D ground modelling, geohazard & terrain evaluation, earth structures, foundation design and ground improvement, in both the onshore and offshore environments.

Key duties could include assisting with:

- Desk studies and site reconnaissance
- Site walkovers and inspections
- Specification, planning and procurement of ground investigations
- Supervision of ground investigation works on site
- Checking of factual geotechnical data obtained from ground investigations and associated digital data management
- Development of conceptual and observational ground models
- Writing of interpretative reports and derivation of geotechnical parameters for design
- Geotechnical design and associated reporting
- Construction supervision

## Tunnelling

**Industrial year placement locations:** Epsom

**Summer placement locations:** N/A

**Degree requirements:** On track to achieve a minimum of 2.2 MEng in Civil Engineering or Structural Engineering

As a Tunnelling Engineering Placement Student, you could be involved in one of the most exciting sectors in civil and environmental engineering. You'll help to support and deliver the technical aspects of a variety of engineering and multidisciplinary designs across a range of challenging and exciting projects in the UK and internationally.

Our team provides technically excellent engineering design of tunnelling, underground, and heavy infrastructure, particularly focused on mass transit, rail and major project programmes. You'll be supported by a team with expertise in assessment of ground movements, design of complex foundations and 'ground-contacting' structures, in addition to the assessment of ventilation and fire life safety aspects of utilising underground space. Here you'll get the opportunity to take on a wide range of interesting activities, including site work, design, asset impact assessments, life cycle/risk assessments and project management.

Key duties could include:

- Supporting with tunnelling design and associated reporting
  - Micro-tunnelling (HDD, Pipejacking, direct pipe)
  - Large tunnels (TBMs, SCL, Square works..)
  - Ground movement assessment and impact assessment
  - Tunnel Principal Inspection and Asset management
  - Shafts, tunnel's portals ancillary structures
- Assisting with feasibility studies
- Contributing to the specification, planning and procurement of tunnels projects
- Working with specialist software to support planning programmes

**To apply, please return to the main job specification**

