

# In the company of... SOLVERS



<b>Business area:</b> Infrastructure
<b>Requirements:</b> On track to achieve a minimum of 2.2 Master's degree in a relevant discipline
<b>Our teams and what they do</b>
<p><b><u>Ground Engineering</u></b></p> <p><b>Degree Requirements:</b> On track to achieve 2.2 Masters / MEng in Engineering Geology, Civil Engineering, Earth Science, Geology, Geotechnical Engineering</p> <p><b>Industrial Year Placement Locations:</b> Birmingham, Epsom</p> <p><b>Summer Placement Locations:</b> Cambridge, Cardiff, Leeds</p> <p>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 &amp; terrain evaluation, earth structures, foundation design and ground improvement, in both the onshore and offshore environments.</p> <p>Key duties may include:</p> <ul style="list-style-type: none"> <li>• Desk studies and site reconnaissance</li> <li>• Be involved with site walkovers and inspections</li> <li>• Supporting specification, planning and procurement of ground investigations</li> <li>• Gain exposure to ground investigation works on site</li> <li>• Checking of factual geotechnical data obtained from ground investigations and associated digital data management</li> <li>• Development of conceptual and observational ground models</li> <li>• Writing of interpretative reports and derivation of geotechnical parameters for design</li> <li>• Geotechnical design and associated reporting</li> <li>• Construction supervision</li> </ul>
<p><b><u>Tunnelling</u></b></p> <p><b>Degree Requirements:</b> On track to achieve 2.2 Master's / MEng in Civil Engineering or Structural Engineering</p> <p><b>Industrial Year Placement Location:</b> Epsom</p> <p><b>Summer Placements Locations:</b> N/A</p> <p>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.</p>

Key duties may include:

- 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 and ancillary structures
- Undertaking feasibility studies
- Specification, planning and procurement of tunnels projects
- Working with specialist software to support planning programmes
- Supervision of construction works on site

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