PHICON

SPECIALIST GEOTECHNICAL DESIGN & SITE ENGINEERING SUPPORT

Practical geotechnical expertise embedded directly into your project team.

Who We Are

Phicon is a specialist UK geotechnical consultancy led by Aleks S. Vas (CEng MICE). We provide senior-level geotechnical design, site engineering support, and construction-focused advisory services for major infrastructure, energy, water, highways, and marine projects.

We work seamlessly alongside Engineering Managers, Designers, Contractors, and Client Teams — acting as an in-house specialist to de-risk design and construction, improve technical certainty, and maintain compliance throughout delivery.

Core Capability Areas

1. Geotechnical Design & Engineering Consultancy

Technical, standards-based design for earthworks and foundation-related structures.

- EC7-compliant design (UK National Annex)
- Shallow and deep foundations, pile groups, bearing capacity, settlement
- Retaining walls, embedded walls, cofferdams, basements
- Slopes, embankments, stability assessments, drainage and seepage
- Ground improvement options & feasibility studies
- Design reports, geotechnical design notes, and auditable calculation packs
- CAT II / CAT III checking interface

2. Ground Engineering & Geotechnical Advisory

Independent specialist input from feasibility through construction.

- Ground investigation scoping, tendering, supervision and logging
- GI interpretation and parameter selection (drained/undrained, EC7-compliant)
- Soil–structure interaction: stiffness, deformation, consolidation, shear strength
- Foundation reuse / asset life extension advice
- Ground-risk assessments for early design, DCO, and planning
- Support for estimating, work packaging, and constructability assessments

3. Numerical Modelling & Specialist Analysis

Robust analysis to support design decisions and risk reduction.

- PLAXIS 2D FE modelling (deformation, retaining walls, interaction)
- LimitState:GEO, Wallap, Slope/W, Repute 2, Slide
- Parametric studies, verification, model-based scenario testing
- Reproducible analysis workflows and fully traceable FE documentation

4. Temporary Works, Site Preparation & Earthworks Advisory

Construction-focused input to keep works progressing safely and compliantly.

- Temporary works influence for excavations, slopes, working platforms, crane pads
- Ground-bearing assessments for plant, welfare, compounds and haul routes
- Earthworks oversight: compaction verification, CBR/LWD interpretation, material acceptance
- Dewatering / groundwater risk considerations
- Enabling works strategies for civils, HV, utilities, and structures

5. Site Support, QA & Compliance Oversight

On-site and remote geotechnical support integrated into the project delivery team.

- Day-to-day geotechnical decision support for Site Managers / Engineering Managers
- Review of ITPs, method statements, RAMS, NCR close-out, and compliance documentation
- GI supervision, monitoring setup (I&M), inspection of foundations and earthworks
- Verification reporting and client-facing technical assurance
- Support for DfMA foundations / structure installation tolerances

6. Risk Management, Delivery Assurance & Engineering Governance

Strengthening decision-making and safeguarding compliance across the project lifecycle.

- Geotechnical risk registers & risk-reduction strategies
- EC7 compliance checks (Design Approach selection, partial factors, reliability classes)
- Pre-construction risk reviews, Early Contractor Involvement (ECI) input
- Support to project governance: DRBs, technical audits, independent reviews
- Clear, defensible documentation suitable for client / regulator scrutiny

Sectors Served

Infrastructure • Energy & Transmission • Water • Highways • Rail • Ports & Marine • Industrial • Land Development

Trust Signals

Chartered Engineer (CEng MICE); CSCS/SMSTS current; PI insurance maintained (certificate on request). DBS / Disclosure checks available where required.

Regions & Availability

UK (Scotland/Cornwall). Availability: from [Please Contact]. Right to work: UK.

Contact

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