

What we can offer

Atkins is one of the leading providers of professional, technologically-based consultancy and support services in the world.

We employ over 18,000 staff throughout our offices worldwide. We are well positioned to undertake a diversity of projects, with a multidisciplinary team spread across a network of offices throughout the UK and overseas in the Americas, Asia and South East Asia, Western Europe, Central and Eastern Europe, and the Middle East.

Geotechnical Skills & Services

- engineering geology & geohazards
- environmental geotechnics
- engineering geomorphology
- advanced geomechanics
- rock & soil slope stabilisation
- earthworks
- foundations & substructure engineering
- highways geotechnics
- rail geotechnics
- river & coastal geotechnics
- offshore geotechnics
- water supply & sewerage geotechnics
- nuclear geotechnics
- tunnel & shaft engineering
- due diligence & expert witness



Key Contacts

For further details regarding our capabilities please email:
geotechnicalengineering@atkinsglobal.com



Office Locations

UK & Ireland

Our UK & Ireland offices include:

Aberdeen	Crewe	Haverfordwest	Northampton	St. Asaph
Altrincham	Croydon	Ipswich	Nottingham	Stockton-On-Tees
Barking	Cumbria	Knutsford	Oxford	Swansea
Belfast	Derby	Leeds	Peterborough	Swindon
Birmingham	Dublin	London	Plymouth	Taunton
Bristol	Edinburgh	Maidstone	Pontypridd	Telford
Cambridge	Epsom	Manchester	Reading	Warrington
Cardiff	Exeter	Newcastle-under-Lyme	Sale	Warwick
Chelmsford	Gillingham	Newcastle-Upon-Tyne	Scunthorpe	Winchester
Chippenham	Glasgow	Newport	Sheffield	York
Colwyn Bay	Gloucester		Southampton	
Cork	Havant			

ATKINS

Engineering Geology & Geohazards



Plan Design Enable

Project Experience

Azadegan Oilfield and Pipelines, Iran

Atkins assembled a multidisciplinary team of geologists, geotechnical engineers, hydrologists and surveyors to assist a Japanese consortium in the feasibility and design phases of this oilfield development.

We provided:

- geotechnical and geohazard expertise for pipeline route selection
- hydraulic modelling of river and over-bank flooding as part of the site selection studies
- site seismic hazard study
- geotechnical site investigation supervision, interpretative reporting and preliminary geotechnical design for the main facilities site

Railway Embankment Stabilisation, Ilkley, UK

Atkins was commended by the Institution of Civil Engineers for "excellence in concept design and execution" of the stabilisation measures for a railway embankment, crossing a 1km wide landslide complex on a key commuter route into Leeds. The railway was suffering continuous ground movement associated with landsliding which originally started about 10,000 years ago after the last ice age.



Project Experience

In Salah Gas Pipeline and Facility Sites, Algeria

Atkins assisted BP with the geohazard and geotechnical engineering and constructability aspects of routing and site selection investigations, for this 450km long pipeline and its in-field production and processing facilities. Our work included desk studies, field reconnaissance and assistance during site investigation.

AGT & BTC Pipelines, Azerbaijan and Georgia

Atkins was commissioned by BP and its project team to assist with routing studies for two major pipelines which export oil and gas from the Caspian Sea basin. At BP's request we managed and coordinated a team of geotechnical specialists. Working with the pipeline engineers, this 'Geo-Team' evaluated:

- hazards, such as landslides and mudflows, seismic liquefaction, and collapsing desert soils; and
- construction and maintenance issues, such as trenching in rocky ground, trench backfill, river erosion and flooding, and soil erosion

In Georgia, we planned and supervised geotechnical investigations of landslide prone areas along the pipeline route, designed geotechnical works to enhance the stability of selected areas and supervised their construction.



Project Experience

Northwich Saltmines, UK

As part of the Government's Land Stabilisation Programme, Atkins has studied the stability of four abandoned salt mines beneath the town of Northwich. We concluded that the mines were at risk of collapse within timescales that were unacceptable for future redevelopment of the area. We subsequently developed proposals for stabilising the mines.

Evinos Dam, Greece

Evinos Dam, a 124m high embankment dam, impounds the Evinos River and diverts water via a 30km long tunnel to the Mornos Reservoir as the second stage of the Greater Athens water supply scheme.

Atkins was appointed to review contractor designs, undertake studies and supervise the construction of the 124m high dam and associated works which included:

- embankment construction
- abutment preparation
- materials selection
- concrete placement
- laboratory and field testing
- slope stabilisation measures
- spillway, tunnel, drainage tunnels and grouting
- underground gate chamber and bottom outlet chamber construction

