

Job Description

FCERM Graduate Geotechnical Engineer

Role Profile	Specialist Band H
Service/Team	Flood and Coastal Erosion Risk Management (FCERM)
Reports to	FCERM Strategy, Policy & Environment Manager
Responsible for	0
Number of posts	1.0 FTE
Post number	TBC
Career Grade	N/A

My job improves the quality of life for the people of Bournemouth, Christchurch and Poole, East Devon and the wider South - West area working collaboratively with partner organisations, by undertaking a range of tasks and activities to secure positive outcomes for communities at risk of flooding and coastal erosion now and in the future as the climate changes.

Job Overview

Working as part of multi-disciplinary teams, this role will provide support to the FCERM Principal Geotechnical Engineer on designing, specifying, procuring, managing and analysing/interpreting geotechnical information required to inform the design and construction of FCERM schemes delivered by the BCP Council and East Devon District Council Shared Service as well as broader South West partner organisations.

This role will also support the development of improved understanding, and ongoing monitoring and assessment of, the risks posed to communities and infrastructure from coastal erosion and land-sliding; this will extend to supporting development of strategies for managing these risks.

This role requires a good understanding of geological and geomorphological processes, geotechnical investigation techniques and ground engineering solutions, and appreciation of the wider-FCERM sector in England. This role also offers the opportunity for a motivated graduate to develop experience of a wide range of activities that are required to deliver FCERM projects. The successful applicant will be mentored and supported in developing the necessary skills to undertake the key responsibilities outlined.

Key Responsibilities

- Support the FCERM Principal Geotechnical Engineer in developing and maintaining evidence about the risks posed by erosion and land-sliding along areas of the coast where communities and infrastructure are likely to be impacted by these processes. This will include:
 - Understanding the existing information relating to coastal cliffs and landslides along the coast to determine where additional data is required, and implementing investigations, surveys and/or research to address key data gaps.
 - Undertaking visual asset inspections of cliff assets to identify early signs of potential stability issues.
 - Undertaking geotechnical inspection of cliff assets when asset inspections identify possible issues.
 - Undertake reviews of monitoring data to ensure assessment of risk to communities and infrastructure is kept up to date.
 - Developing and maintaining a new digital cliff asset database for the BCP sea cliffs and chines.

This job description is not exhaustive and reflects the type and range of tasks, responsibilities and outcomes associated with this post.

- Support the FCERM Principal Geotechnical Engineer in providing geotechnical advice and support to the FCERM capital and asset management teams in delivering capital and maintenance works, including:
 - Advising on ground investigation requirements and procurement.
 - Interpreting data to produce ground models to inform design of a range of engineering solutions including slope stabilisation, drainage, retaining walls, pile design, anchors, soil nails and foundations.
 - Assessing the potential risk of erosion / land-sliding under different management scenarios to inform economic appraisals.
- Work with other members of the FCERM team and other stakeholders to develop cliff management strategies where required along the coast that are sensitive to the important environmental designations of the area.
- Advise local authority planners on both planning applications and Local Plan development in respect of risks of land-sliding / land instability.
- Support delivery of stakeholder engagement activities on FCERM projects, for example assisting with workshops or drop-in events.
- To work in accordance with agreed policies and procedures of both BCP Council and client authorities.
- To comply with all decisions, policies and standing orders of both BCP Council and client authorities, and any relevant statutory requirements, including Equal Opportunities legislation, Health and Safety at Work Act and Data Protection Act.

Specific Qualifications and Experience

- Degree level qualification in a relevant field or equivalent experience.
- Demonstrable knowledge of ground investigation methods and interpretation of ground investigation results, including development of ground models and hazard/risk mapping.
- Evidence of experience in managing, analysing and interpreting geotechnical / geological mapping and monitoring data.
- Demonstrable knowledge of how the FCERM sector operates, current and emerging FCERM issues, relevant guidance to be followed, and broader commercial awareness.
- Experienced in using a wide range of IT programmes relevant to the role including Outlook, Word, Excel, Publisher.

Personal Qualities & Attributes

- Able to analyse data accurately to produce reports to inform project decisions / service delivery improvements.
- Able to effectively prioritise workload in an environment of change and manage competing demands effectively.
- Excellent interpersonal and oral and written communication skills and ability to present information in a focussed way.

Job Requirements

- Must be able to travel, using public or other forms of transport where they are viable, or by holding a valid UK driving licence with access to own or pool car.
- Must be willing to work occasional evenings and weekends to support engagement events.
- Will be expected to pursue, and be supported in, achieving chartered geologist / engineer status, as part of BCP's commitment to employee development.

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