



The  
University  
Of  
Sheffield.

About  
The  
Job.

Ref: R07422

Department of Civil and Structural Engineering

Lecturer/Senior Lecturer in Geotechnics

## Job Description

### Brief outline

Applicants should be able to design and deliver teaching programmes in geotechnical engineering; demonstrate an ability to develop their own research in geotechnics or a cognate discipline and have an awareness of broader developments relevant to the area. The geotechnical group's research aims to enhance fundamental understanding of geotechnical processes and provide practical guidance based on physical and novel numerical modelling techniques.

The successful candidate will be expected to conduct research to international standards, teach undergraduate and postgraduate courses as required and supervise undergraduate, MSc and PhD projects, in addition to discharging administrative duties at departmental level and at Faculty/University level.

Candidates with interests in any area of geotechnics are encouraged to apply.

Report to: Head of Department

## Main Duties and Responsibilities

- § Design teaching programmes for courses, including identifying learning objectives and selecting appropriate curricula; selecting teaching methods, resources and reading; determining, designing and producing study materials; planning course delivery and planning for contingencies such as slower/faster progress than anticipated.
- § Deliver teaching courses, including preparing teaching material, communicating subject matter and encouraging critical discourse to develop rational thinking; observing and reacting to student interventions; responding to questions outside class times and to contingencies in course delivery.
- § Coordinate team teaching, including liaison with other academic staff and/or postgraduate assistants, to ensure the course complements other courses taken by students.
- § Carry out assessment for courses, including designing assessment instruments and criteria; marking assessments, ensuring adequate moderation; providing written/oral feedback; judging whether student circumstances should be taken into consideration in the assessment; and collating and providing final assessments of students.

- § Supervise undergraduate and Masters projects.
- § Carry out course evaluation, including facilitating student feedback; reflecting on own teaching design and delivery; and implementing ideas for improving own performance.
- § Carry out pastoral role for students such as acting as Personal Tutor, to counsel students. If necessary refer them to the appropriate authority for guidance.
- § Conduct personal research, including identifying literature and updating own knowledge; assessing the validity of the relevant literature and its contribution to the development of own field. Write up research work for publication and give presentations at conferences.
- § Determine research objectives, and initiate and implement a programme of research that may include managing time, materials, finance, equipment and people.
- § Supervise postgraduate research students and/or research staff.
- § Identify appropriate sources of funding and prepare research proposals for funding bodies.
- § Participate in faculty/school/departmental committees and take on roles such as membership of Departmental Committees and, in some cases, membership of Faculty Committees.
- § Carry out 1 (or more) departmental administrative roles and meet the required objectives.
- § Be involved in professional activities such as refereeing papers, editing journals, refereeing research grants, external examining, organising workshops or conferences, committee membership and involvement with professional bodies on accreditation.

### **Planning and Organising**

- § Carry out teaching-related and administrative work as allocated by the Head of Department and various committees. Self-generate work through research and scholarly pursuits plus innovation in teaching and administration.
- § Plan and prioritise own daily work, and forward plan up to five years for some tasks. For teaching, plan up to one year ahead unless there are significant teaching programme changes or new courses, then plan for up to two years ahead of their introduction.
- § Deal with daily reactive requests such as those relating to teaching, supervising research staff and students and administrative tasks.
- § Delegate and monitor the work of Research students and Research Assistants/Associates.
- § Plan up to 3 years ahead for research related tasks.
- § Plan for teaching up to 1 month ahead for new course delivery

### **Resource Management Responsibilities**

- § Manage or co-manage external research funding over period of grant(s).
- § Supervise or co-supervise undergraduate/postgraduate project students and/or PhD students. Manage Research Assistant(s) and/or Research Associate(s).

## Person Specification

Applicants should demonstrate evidence of the following:

Criteria	Essential	Desirable	How this criterion will be assessed e.g. Application / Interview / Presentation / References
<b>Qualifications and experience</b>			
§ PhD (or equivalent experience) in Geotechnics or a cognate discipline	<b>P</b>		Application
§ Chartered Engineer, Member of an Engineering Institution		<b>P</b>	Application
§ Teaching Qualification		<b>P</b>	Application
<b>Communication skills</b>			
§ Effective communication skills, both written and verbal, report writing skills and experience of delivering presentations.	<b>P</b>		Interview/Presentation
<b>Research</b>			
§ Knowledge of principle, theory and practice in geotechnics and an awareness of broader developments relevant to the area	<b>P</b>		Application/Interview
§ Ability to establish research objectives, and initiate and implement a programme of research	<b>P</b>		Application/Interview
§ Evidence of having written up research work for publication and conference presentations	<b>P</b>		Application/Interview
§ Ability to prepare research proposals for funding bodies	<b>P</b>		Application/Interview
<b>Teaching</b>			
§ Ability to design and deliver teaching programmes in geotechnical engineering	<b>P</b>		Application/Interview
§ Appreciation of pastoral role relating to students	<b>P</b>		Application/Interview
§ Experience of preparing teaching materials, and setting and marking student assessments		<b>P</b>	Application/Interview
§ Supervision of undergraduate or Masters projects .		<b>P</b>	Application/Interview
<b>Personal effectiveness</b>			
§ Ability and willingness to carry out departmental administrative roles and meet required objectives	<b>P</b>		Interview/References
§ Participation in the activities of Learned Societies and commitment to Continuing Professional Development	<b>P</b>		Interview/References

**Informal enquiries:** Informal enquiries may be directed to Professor Adrian Hyde, [a.f.l.hyde@sheffield.ac.uk](mailto:a.f.l.hyde@sheffield.ac.uk), or by telephone on 0114 2225741 more detailed information about the department and the geotechnics group may be found at: <http://www.geotech.group.shef.ac.uk>

**Salary for Grade 8 staff (Lecturer):** £36,532 - £43,622 per annum, with the expectation of annual incremental progression. Potential to progress to £49,096 through sustained exceptional contribution.

**Salary for Grade 9 staff (Senior Lecturer):** £46,278 - £52,086 per annum, with the expectation of annual incremental progression. Potential to progress to £60,383 through sustained exceptional contribution.

**Terms and conditions of employment:** Will be those for Grade 8 or Grade 9 staff.

**Closing date:** 4 September 2009

**The University of Sheffield is committed to achieving excellence through  
inclusion**