MSC INDUSTRY FUNDED SCHOLARSHIPS

Our Industrial Bursary Scheme (IBS), supported by a group of 14 Companies, enables us to award an IBS-funded scholarship to a number of our MSc students. Funding normally covers home-level fees and makes a contribution towards subsistence costs. All applications are considered for funding and the allocation of IBS awards is based on academic merit and industry experience. Other funding opportunities include a number of Departmental scholarships.

The IBS companies organise recruitment events and do regularly recruit our MSc graduates, contributing to the excellent employability record of our graduates.

MORE INFORMATION
You can find more information on the Soil Mechanics MSc courses online via:
http://www.imperial.ac.uk/civil-engineering/prospective-students/

HOW TO APPLY
Apply for the courses online via:
http://www.imperial.ac.uk/study/pg/apply/how-to-apply/

As a minimum, applicants should have an Upper Second Class Honours degree in Civil Engineering, Earth Science, Mining or a related discipline, from a UK university or overseas equivalent. It is also beneficial to have industry experience.

CONTACT
Geotechnics Section
http://www.imperial.ac.uk/geotechnics/

Administrator
Ms Sue Feller
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Leading Geotechnical Specialist Education for seven decades
MSc in Soil Mechanics

INTRODUCTION
The internationally renowned cluster of MSc courses in Soil Mechanics at Imperial College is running in its eighth decade. The current and emeritus staff include four Rankine and five Géotechnique Lecturers. Graduates from the course hold senior positions around the world. The Geotechnics Section engages closely with the geotechnical engineering industry, ensuring that the course content is up to date and relevant to current professional practice.

AIMS
The course is designed to provide students with a solid technical basis in the key areas of Geotechnical Engineering, through a coherent, coordinated and balanced degree programme, integrating core engineering science and recent research with practical applications.

COURSE THEMES
The four Soil Mechanics MSc courses share approximately 80% of the curriculum, while the remaining 20% allow specialisation in the four areas listed in the left column.

DISTINCTIVE FEATURES OF THE PROGRAMME
- Strong links with industry including:
  - industry funded studentships (see back page)
  - networking with key geotechnical employers
  - guest lectures
  - one-day Offshore Geotechnics Seminar (OGS) organised by Fugro, Shell, Senergy and other industry partners
- Three-month individual research project including hands-on work with state-of-the-art soil testing equipment and numerical analysis tools
- Emphasis on field work

FACILITIES
- Experimental laboratory: standard and osmotic oedometers, stress-path triaxial cells, hollow cylinder apparatus, temperature-controlled triaxial, conductivity and oedometer cells.
- Microscopy & imaging laboratory: optical microscope, interferometer, QicPic apparatus.
- Dedicated FEM laboratory: bespoke FE code ICFEP for 2D and 3D static and dynamic analysis, with thermo-hydraulic coupling for saturated and unsaturated soils.
- Dedicated DEM laboratory: PFC code 2D and 3D, and bespoke development of the LAMMPS code.
- Departmental library: one of the best Civil Engineering library collections of books and periodicals internationally.
- Access to transferable skills training: a range of courses, from academic English to career services, available from the Imperial College Graduate School.

EXTRACTS FROM SELECTED MODULE CONTENTS

MSc SPECIALISATION MODULES INCLUDE
- Advanced Soil Mechanics
- Applied Numerical Analysis
- Geotechnical Processes & Field Monitoring
- Rock Engineering
- Contaminated Land & Groundwater
- Containment Engineering
- Hydrogeology & Groundwater
- Geotechnical Hazards
- Geotechnical Earthquake Engineering

EXTRACTS FROM SELECTED MODULE CONTENTS

MSc CORE MODULES
- Consolidation & Seepage
- Strength & Deformation
- Analysis & Constitutive Modelling
- Design of Foundations & Retaining Structures
- Geotechnical Infrastructure: Slopes & Embankments
- Laboratory Testing and Data Interpretation
- Site Investigation and Engineering Geomorphology
- Field Work
- Offshore Geotechnics Seminar (OGS)
- Individual Research Project

FULL- AND PART-TIME STUDY
The full-time programme is taken over 11 months, with a single entry point per year at the beginning of October. The part-time programme is available on a Term Release basis over 2 years.