MSc Tunnelling and Underground Space

2014/15
This specialist course has been developed with the British Tunnelling Society (BTS) and is suited primarily to civil engineering graduates working, or wishing to work, in the tunnelling industry.

The University of Warwick is a world-class institution offering the highest quality teaching programmes. With a unique integrated multi-disciplinary structure for both research and teaching and strong links with industry, the School of Engineering is fast becoming the UK centre of excellence for tunnelling. During the course you will integrate and apply knowledge and skills to the solution of complex civil engineering and tunnelling problems at postgraduate level, apply understanding to novel and challenging situations, and become aware of the limitations of the solution.

Tunnelling is a rapidly expanding sector on a global scale where suitably trained engineers are in high demand. For graduates of this degree, the career opportunities are extensive.

This degree is accredited as meeting the requirements for Further Learning for a Chartered Engineer (CEng) for candidates who have already acquired an Accredited CEng (Partial) BEng (Hons) or an Accredited IEng (Full) BEng/BSc (Hons) undergraduate first degree.

The full MSc degree takes one year full-time or two years part-time.

warwick.ac.uk/tunnelling
**Course overview**

Approximately 20% of teaching is delivered by guest lecturers from industry who give up their time freely to support the course, ensuring the course remains relevant. Specialist subjects and case studies are presented by experts with first-hand experience.

**Core modules**

Underground construction methods, Geological investigation and ground characterisation, Tunnel design, Health, safety and environmental considerations, Construction management, Professional skills, Project.

**Optional modules - two of the following:**


*(modules marked * only available to full-time students)*

**Funding opportunities**

The latest scholarships and bursary options can be found online.

[warwick.ac.uk/tunnelling](http://warwick.ac.uk/tunnelling)
Accrediting

institutions

Short courses

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Our MSc modules can also be purchased as individual CPD courses.

<table>
<thead>
<tr>
<th>Date</th>
<th>Course title</th>
<th>Fees</th>
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<tbody>
<tr>
<td>20 - 24 Oct 2014</td>
<td>Underground Construction Methods Part 1</td>
<td>£2,000</td>
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<tr>
<td>24 - 28 Nov 2014</td>
<td>Underground Construction Methods Part 2</td>
<td></td>
</tr>
<tr>
<td>10 - 14 Nov 2014</td>
<td>Geological Investigation and Ground Characterisation</td>
<td>£1,000</td>
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<tr>
<td>09 - 13 Feb 2015</td>
<td>Health, Safety and Environmental Considerations</td>
<td>£1,000</td>
</tr>
<tr>
<td>23 - 27 Feb 2015</td>
<td>Tunnel Design</td>
<td>£1,000</td>
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<tr>
<td>16 - 20 Mar 2015</td>
<td>Finite Element Methods for Tunnelling</td>
<td>£1,000</td>
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<tr>
<td>23 - 27 Mar 2015</td>
<td>Construction Management</td>
<td>£1,000</td>
</tr>
<tr>
<td>13 - 17 Apr 2015</td>
<td>Rock Mechanics</td>
<td>£1,000</td>
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Attendees may elect to sit the examination and coursework. Examinations are held in January or May.

*Please note: costs do not include residential accommodation or food. Accommodation is available locally and may be available on campus. Further details are available on request.*

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warwick.ac.uk/tunnelling

Recognising commitment to advancing women’s careers in STEMM (Science, Technology, Engineering, Mathematics and Medicine) academia.