

www.yorkemc.co.uk

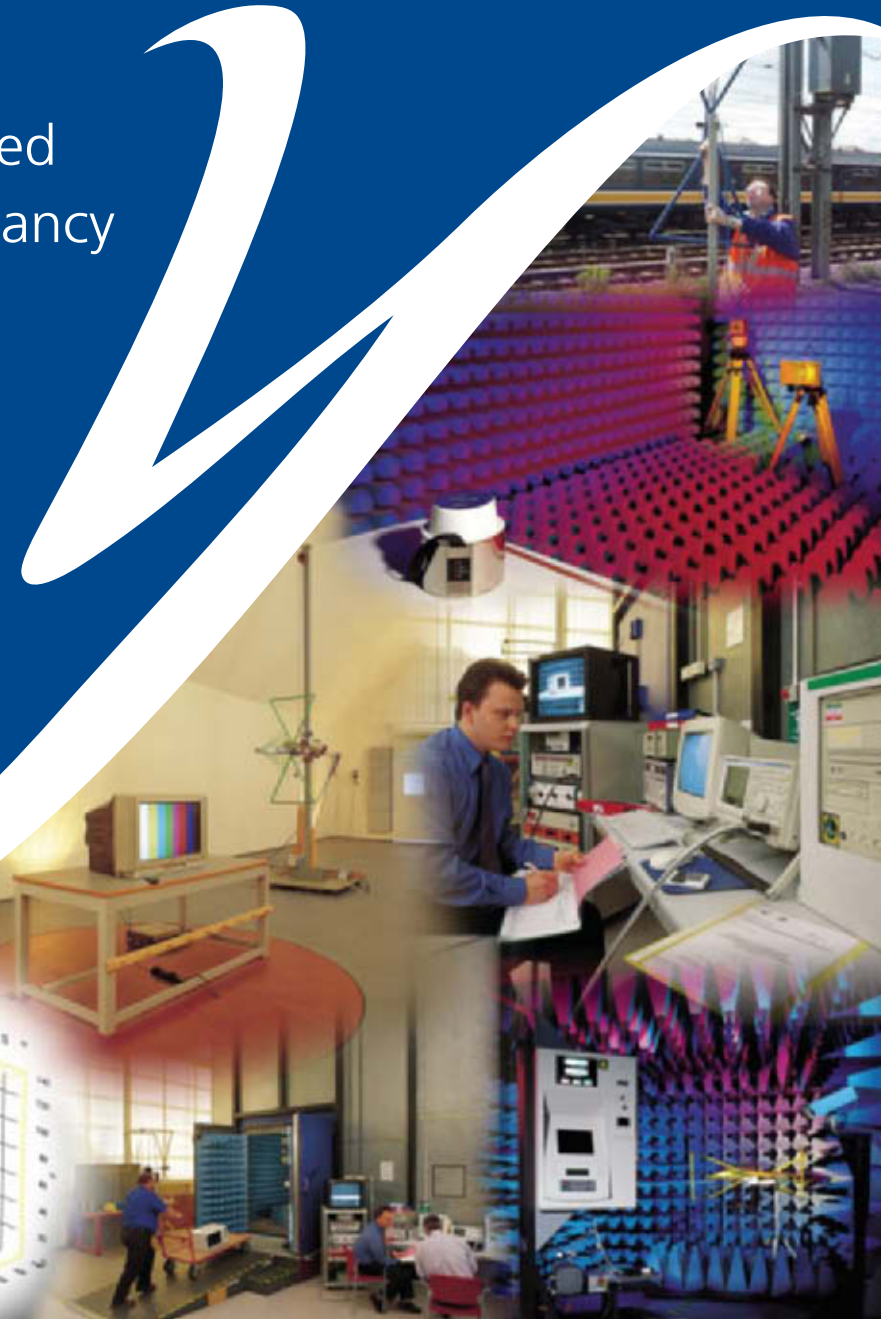
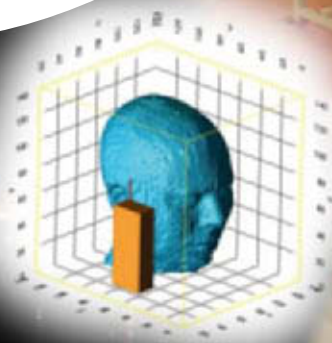
*York* **EMC** Services Ltd

International  
Research Based  
EMC Consultancy

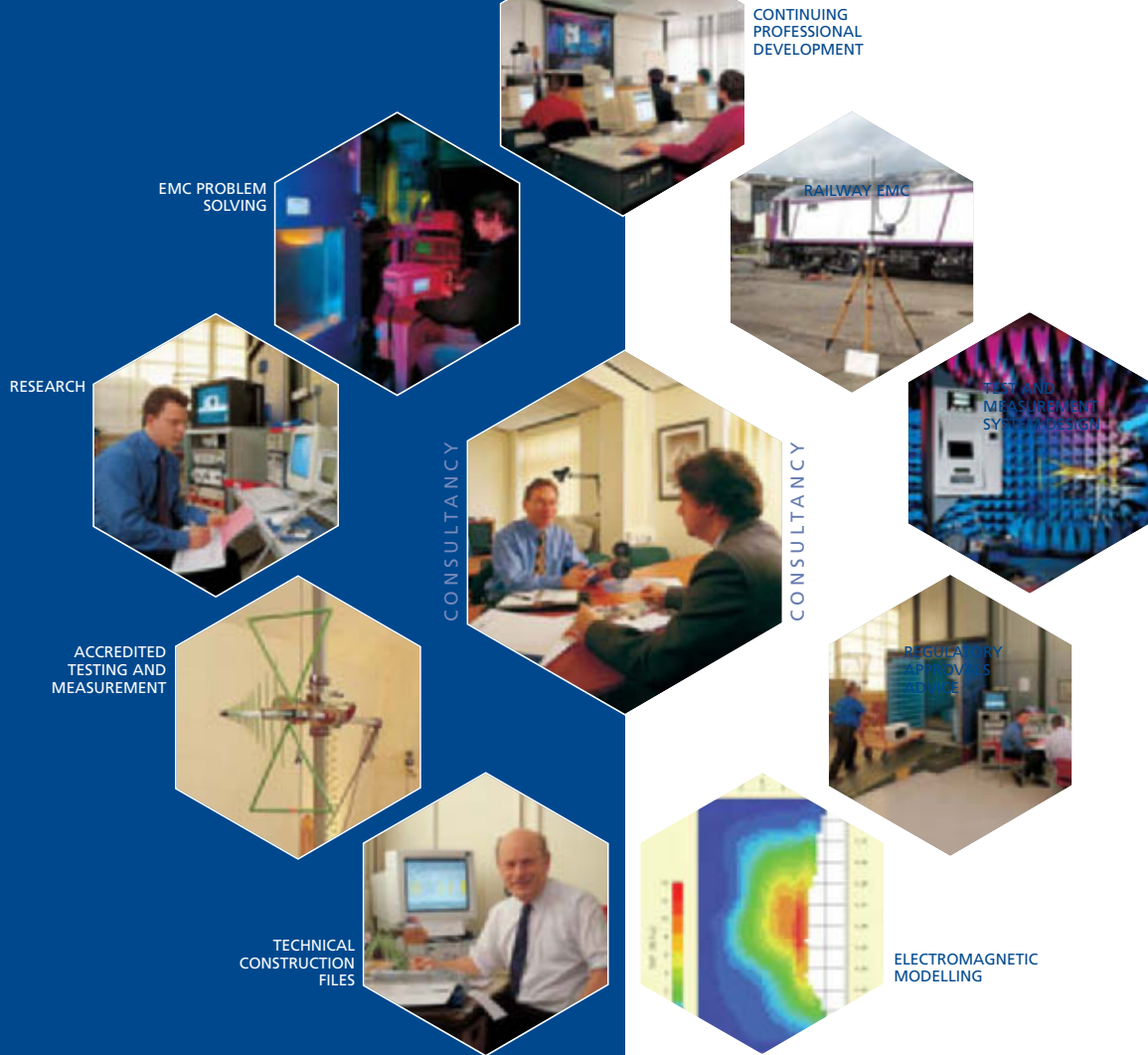
THE UNIVERSITY of *York*

**dti**

A DTI appointed  
Competent Body



# OUR KEY STRENGTHS



York EMC Services Ltd is the innovative, award winning, leading provider of EMC research based consultancy services to UK and overseas industry. Our dynamic link to world-class expert researchers at the University of York sets us apart from other consultancies and keeps us at the forefront of EMC research.

## International Research Based EMC Consultancy

- Rail
- Communications
- Lighting
- Consumer Electronics
- Defence
- Oil and Gas
- Process Manufacturing Industry
- Built environment
- Healthcare Engineering

## EMC Problem Solving

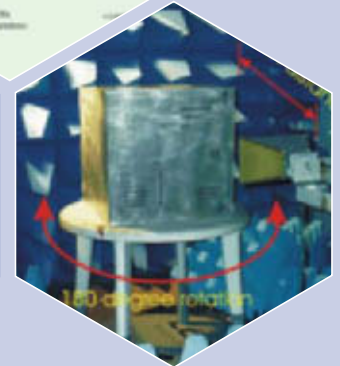
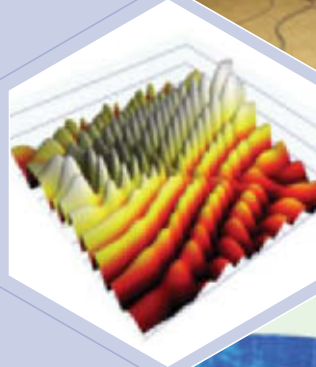
- Multi-disciplinary problem solving including: consultancy, laboratory and on-site measurements and electromagnetic modelling
- Hazard Identification and EMC risk assessments
- World-class expertise to solve the most complex EMC problems

## EMC Management, Legislation and Documentation

- Advice on EMC legislation and regulatory issues worldwide
- Planning EMC management strategies
- Spectrum management; compatibility between radio systems
- Technical Construction File (TCF) compilation and assessment; appointed European Competent Body
- Expert Witness services

## EMC Design, Measurement and Testing Consultancy

- EMC Design Techniques
- Development of novel measurement techniques
- Instrumentation and software development
- EM site surveys
- Computational EM Modelling
- Design and development of in-house test facilities, either for pre- or full compliance EMC testing
- Shielding effectiveness calculation and measurement
- Antenna design



## Why use an EMC consultancy?

Using an EMC consultant offers many advantages, particularly expertise and experience, delivering: efficiency, accuracy, speed and cost effectiveness to name but a few. In addition to our own EMC consultants we have access to colleagues working at the University of York, experts in fields such as: antenna design, communications and safety critical software. This means that we can field a unique project team of world-class experts able to solve your problem.

## Our Track Record

York EMC Services Ltd, has worked with leading multinational organisations and government agencies, not only from the UK but also throughout the European Union, Central Europe, North America and the Far East, including Hong Kong and Taiwan - making us a truly international consultancy.

## Examples of EMC Projects Delivered



A comprehensive review of the EMC of the West Rail signalling system for KCRC, Hong Kong.

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Investigation into random tripping of gas detector alarms.

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Expert Witness EMC consultancy eg for a video system used on a major train operator's fleet.

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EMC problem solving: VDU disruption due to interference from cathodic protection system.

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EMC testing and consultancy services for a major review of the electromagnetic environment of the London Underground Victoria Line on behalf of the Victoria Line Upgrade Project.

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## Consultancy Staff

- Engineers and academic experts in EMC
- All staff have post-graduate degrees
- Effective communicators, involved in making regular presentations at international conferences and teaching on our short courses and workshops.

**Our Unique Innovations include:**

■ **emiXpress»**

*Measurement System* - Honourable Mention at National Measurement Awards (NMA), 2003.

YES designed and implemented a unique measurement system **emiXpress»** for OFCOM allowing detailed measurements of the level, duration and nature of interference generated by high-speed moving rolling stock to be captured in one scan.

- A time synchronised emission measurement system suitable for gathering data over the frequency range DC to 26GHz and over a long measurement duration (e.g. 24 hours).
- A novel investigative technique to assess the failure threshold of digital electronic devices using the re-radiated emissions of equipment subjected to an incident field.
- Measurement of antenna impedance and gain via remote optical link.
- **Comparison Noise Emitter (CNE)**  
Very stable, special purpose broadband high frequency noise sources for use in calibration, pre-test checks, comparison and shielding effectiveness applications.

**What's the next step? Contact us today!**  
**Our consultants are always available to discuss your enquiry with you directly and make an initial assessment.**

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*York* **EMC** Services Ltd

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*YES staff shaking hands with Lord Sainsbury at the NMA event*

