

'Routes into Engineering' Market Place

Are you aware of the different paths that are available in order to pursue a career in engineering? This lunchtime Market Place session will afford the attendees the opportunity to meet real professional engineers from different disciplines and backgrounds, apprentices and graduates, representatives from Universities, engineering institutions and training organisations. This will give attendees the opportunity for more individual attention and encourage questions.

Organisations like the Engineering Development Trust run schemes like Year in Industry with opportunities available in Engineering, Science, IT and Business. Working with industrial partners Year in Industry gives able students a foundation for their careers and also gives the opportunity to access and nurture talent and potential. Each year 700 students are placed in over 200 companies for a gap year between school and university. Students develop their skills and enthusiasm, gain an insight into industry, and earn a minimum of £150 per week. For further information visit <http://www.yini.org.uk>

What did attendees of previous Engineering Your Future events have to say?

Student Quotes:

- "I wanted to work in a hospital very much and wouldn't allow anyone to tell me otherwise. Now I want to look into engineering."
- "This has made me re-evaluate my future and what I would like to do with it. Engineering is now a serious consideration for a career choice."
- "I enjoyed it a lot. The talks were great. The advice I got helped me a lot and all my questions were answered."
- "I would like to do mechanical/automotive engineering. Today made me realise the variety of courses that are available."
- "It helped inform me on what each branch of engineering holds, and different pathways into them. It's been very interesting and enjoyable."
- "I would definitely consider a career in civil/structural engineering after today. It was very informative and interesting to learn about different career paths there are in engineering and just how wide a career in engineering is."

Teacher Quotes:

- "Best we have attended. Excellent feedback from the students throughout the day."
- "This is one of the best presentation and interactive workshops attended."
- "Very pleased to see female engineers playing a lead role. It has opened the student's eyes, maybe made it even more difficult to make an engineering choice now knowing how varied it is but also... excited them and will make them go away and research engineering more."
- "The immediate benefit was to the delegates themselves. There were indirect benefits for the college in terms of awareness raising and enhanced knowledge given to the staff member. A most enjoyable day!"

Contacts for further information:

	Website	E-mail
STEMNET (NW)	www.stemnet.org.uk	info@stemnet.org.uk
STEM Centres: Gtr Manchester Lancashire Cumbria	www.stemsalford.org www.lebp.co.uk www.cumbriastemcentre.co.uk	davidwardsalford@aol.com enquiries@lebp.co.uk tony@cumbriastemcentre.co.uk
Engineering Council UK (EC ^{UK})	www.engc.org.uk	
Institution of Mechanical Engineers	www.imeche.org	enquiries@imeche.org
Institution of Civil Engineers	www.ice.org.uk	communications@ice.org.uk
Institution of Engineering and Technology	www.thiet.org	postmaster@theiet.org
Institution of Chemical Engineers	www.icheme.org	webmaster@icheme.org
The Nuclear Institute	www.nuclearinst.com	admin@nuclearinst.com
Institute of Physics	www.iop.org	physics@iop.org
Institute of Acoustics	www.ioa.org.uk	ioa@ioa.org.uk
British Computer Society	www.bcs.org	mancr-sec@bcs.org

3rd ANNUAL NORTH WEST

Engineering Your Future

Career Awareness Day

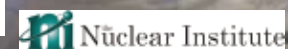
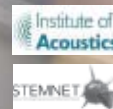
Friday 9th October 2009

Burnley FC
Turf Moor
Harry Potts Way
Burnley
BB10 4BX
Tel: 0871 221 1882

Friday 6th November 2009

Preston North End FC
Deepdale
Sir Tom Finney Way
Preston
PR1 6RU
Tel: 0870 442 1964

Official Partners



What is Engineering Your Future?

Now in its ninth year in London and its third year in the North West, Engineering Your Future has become a key date in the diary of North West Secondary Schools and Sixth Form Colleges. This one day careers event has been established to provide an opportunity for attendees to see that engineering is a career worth pursuing. It is jointly co-ordinated and sponsored by the Institution of Mechanical Engineers, the Institution of Civil Engineers, the Institution of Engineering and Technology, the Institution of Chemical Engineers, The Nuclear Institute, the Institute of Physics, the Institute of Acoustics and the British Computer Society, and is fully supported by STEMNET and the north west STEM Centres.

Who should attend?

This informative and hands on event is aimed at pupils between 17-18 years old who are studying science, maths or engineering at GNVQ or A-Level, together with their STEM subject teachers. Attendance is FREE for all participants and lunch is included.

What happens on the day?

The day is split into 5 sessions providing insights into Mechanical, Civil, Electrical/Electronic, Chemical and Nuclear Engineering; each of which lasts approximately 40 minutes.

Attendees will be split into five groups and each allocated a mentor Engineer for the day. They will learn about the specific areas of engineering from the companies and organisations invited overleaf, along with a lunchtime marketplace offering more information on 'Routes into Engineering'. The sessions are designed to be practical and interactive and provide an insight into life as a professional Engineer.

For the first time this year, there will also be a separate STEM teacher session to outline all the various routes into the engineering profession, the extensive resources available from the Professional Institutions, and the role of STEM Ambassadors in enthusing students of all ages.

Benefits of Attendance

Pupils and teachers will benefit by increasing their awareness of the very broad scope offered by a career in engineering; the various routes into engineering; what they can expect and what it entails. All the presenters will be qualified and experienced Engineers.

Typical Timetable for the day:

9:15	Registration	11:55	Session 3
9:50	Assemble in lecture theatre	12:35	Lunch & 'Routes into Engineering' Market Place
10:00	Welcome & Opening presentation	13:20	Session 4 & separate STEM teacher session.
10:20	Session 1	14:05	Session 5
11:00	Break	14:50	Summary
11:10	Session 2	15:00	Close

Outline of Workshops

BAE SYSTEMS BAE Systems is the premier global defence, security and aerospace company delivery a full range of products and services for air, land and naval forces, as well as advanced electronics, security, information technology solutions and customer support services. With approximately 105,000 employees worldwide, BAE Systems' sales exceeded £18.5 billion (US\$34.4 billion) in 2008. The presenters will give an overview of the company, their engineering careers and opportunities within BAE Systems, followed by an interactive discussion/exercise involving some of the activities that go into developing a world class military aircraft.

ygn The YGN is a group created by the Nuclear Institute (NI) to offer the younger members of the nuclear industry the opportunity to further their knowledge and facilitate networking between generations. It assists career progression and provides a resource for the future of the industry. A number of YGN members from across the nuclear industry will each be giving a five minute presentation on why they chose nuclear engineering, how they entered the industry and what experiences they've had since they started. An interactive presentation covering electricity generation and a Q&A session will follow this.

openreach Openreach provides installation and maintenance services on behalf of the UK's Communications Providers. We are responsible for the 'first mile' of the national access network – the place where millions of calls, web searches and business deals are started each day. Openreach services, supports and maintains the wiring, fibres and connections which link millions of homes and businesses in Great Britain to Communications Providers' networks. The presenter will give an overview of the company, and her engineering career and the opportunities within Openreach. This will be followed by a hands-on exercise during which students will the design and build a simple telephone system, using tools and test equipment as used by Openreach field engineers.

United Utilities United Utilities own, operate and maintain utility assets, including water, wastewater, electricity and gas. As the world changes and communities grow, the demand for a reliable supply of water and energy grows too. We all have a duty to protect the environment that provides those natural resources so we can safeguard it for future generations to come. We see ourselves as stewards of these natural resources, using our rich legacy of engineering and planning skills to build the essential backbone of thriving communities in the North West of England, in the UK and across the world. The presentation will be given by our young engineers and will include an overview of their xperiences followed by an interactive exercise highlighting some of the challenges facing civil engineers working in the water and wastewater industry today.

Invibio Invibio is the global market leading provider of polyetheretherketone (PEEK) based biomaterial solutions. Invibio provides advanced technical research and consultative solutions to medical device manufacturers across a wide range of markets. This year Invibio celebrates the 10th anniversary of PEEK-OPTIMA[®], the world's first implantable grade PEEK. The presenter, a Product Development Scientist, will take her audience on a journey into how bio – engineering can help people enjoy a normal life when something goes wrong or wears out, which will be followed by a Q&A session. (Preston event only)

MBDA MBDA is a world leading, global missile systems company, delivering cutting-edge technologies to our multinational customer base. It operates in all of the major world markets and is the only company able to design and produce missiles and missile systems for army, navy and air forces. MBDA has around 11,000 employees based across the world. In the UK, research and development is carried out at Stevenage, while software and systems engineering takes place in Bristol, and production in Bolton. Their accredited apprentice and graduate schemes produce high quality engineers and commercial managers to help reduce the risk to international projects and secure future business by demonstrating professionalism to both current and potential customers and to this end we have had a constant apprentice intake for 72 years. (Bolton event only)