



TeenTech – The Explanation

The TeenTech* experience is a lively one-day event with a supporting Awards programme that aims to change perceptions of Science, Technology, Engineering and Maths (STEM) careers amongst teenagers and their teachers and acts as a catalyst to encourage industry effort in engaging young people. Working alongside regional partners we ensure schools in disadvantaged areas are targeted, that each event is relevant to the region and that learning and inspiration continues after the day in a co-ordinated fashion.

TeenTech run events across the UK, including Staffordshire, East Midlands, Berkshire, Wales, South Yorkshire, Humber, Kent, Surrey, Hampshire, Coventry and Warwickshire, London, Northern Ireland, Gloucestershire, and Manchester.

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Why TeenTech?

Recruitment of technical skills is getting more and more difficult. China produces in one year ten times the total number of engineering graduates than the UK.

In recent years there has been much hand wringing about the acute skills shortage in the UK. Numerous organisations and businesses have flagged up the need for young people to have a sharper idea of the skills they need to become employable and for them to understand how the decline of low-skilled jobs means fewer lower entry points into the labour market. Failure to grasp these basics when young affects not only their future life chances but also the prospects of every company and the long-term economic success of the UK.

According to the most recent CBI survey, over 40% of employers are already having difficulties recruiting STEM skilled staff. At the same time, over a million 16-24 year olds are currently inactive and as Director-General of the CBI, John Cridland, says, "As a nation we are letting far too many fall behind"

TeenTech History

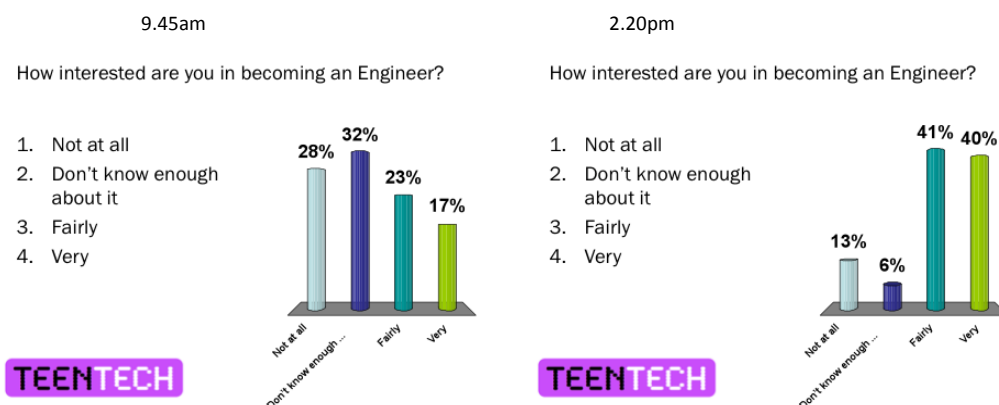
In 2008 Maggie Philbin set up TeenTech to help the "X Factor" generation understand their true potential and get a hold on the real opportunities in the contemporary STEM workplace. Supported by Chris Dodson, Chairman of the IoD for the South, she brought the idea to the Thames Valley and then collaborated with the key players in technology, business and education to create a lively but focused event that worked in the interests of both students and industry. Events have been run since 2008, to resoundingly positive feedback: 100% schools saying they will 'definitely' attend another TeenTech event. .

TeenTech was formalised as a Community Interest Company (CIC) in 2011.

The TeenTech Awards open to all UK students 11-16 were launched in November 2012

TeenTech really works

TeenTech is a powerful and uniquely collaborative event, which changes perceptions. These are the results from our electronic voting buttons at our Reading event in 2011



"I am going to tear up lesson plans as a result of what I've seen". Teacher, Humber

Recognition for our work

- 2010 TeenTech awarded “**Best Engineering Event**” in Science and Engineering Week by British Science Association and **Enterprising Britain Award for South East** after being selected as the regional winner for 2010
- 2011 TeenTech only UK recipients of a **Google RISE Award** to help pilot a UK rollout.
- 2012 HRH Duke of York becomes patron of TeenTech
- 2012 Maggie Philbin & TeenTech win **UKRC/WISE Best Outreach and Communication**
“It has been one of the most engaging events for students we have ever been to” Teacher, Reading

STEM businesses recognise the long-term benefits of TeenTech, the professional approach and the measurable outcomes on the day itself. The following companies and organisations are among those working with us to make our events possible. They bring their shiniest technology and most importantly their best Scientists, Engineers and Technologists to showcase the 21st Century workplace.

Airbus, AirProducts, Agant, Apps For Good, AESSEAL,, AWE, Atkins, Balfour Beatty, Berkshire Agricultural College, BAE Systems, BBC, BlackBerry (RIM), British Computer Society, British Gas, BT, Business Doncaster, City University, CADline, Cisco, Coaster Club, Cobus Communications, CPC, Cummins, De Montfort University, Google, GSK, Hedon Salads, HETA/Smartwind, HP,ICE, Imago, IOD, Intel, JVC, Kingston Communications, National Apprenticeship Scheme, National Grid, Newburgh, Novartis, NOISE, Oki Doke Media, Oracle, Pegler Yorkshire, Pepsico, Proctor & Gamble, Pyuda, RAF, Reactor, Sheffield Forgemasters, Made in Sheffield, Tinsley Bridge Group, Pressure Technologies, Samsung , Siemens, Sky, Small Piece Trust, Smith Institute for Mathematics and System Engineering, Shire Pharmaceuticals, QMCUL, Skanska, Sony Europe, Specsavers, Syngenta, Symantec, T.M.Wright, ThinkZero, University of Reading, University of Hull, University of Kent, University of Leicester, University of Surrey, University of Warwick, Scottish and Southern Energy, William Beckett, YORBuild and Zenos

Media Coverage

TeenTech has generated good media coverage. The event has been featured on BBC 1’s The Politics Show, BBC Click, Regional News, BBC and independent radio and BBC online news. We use electronic voting buttons at every event to capture valuable data about teenage thinking, which is used to generate eye-catching and informative press releases.



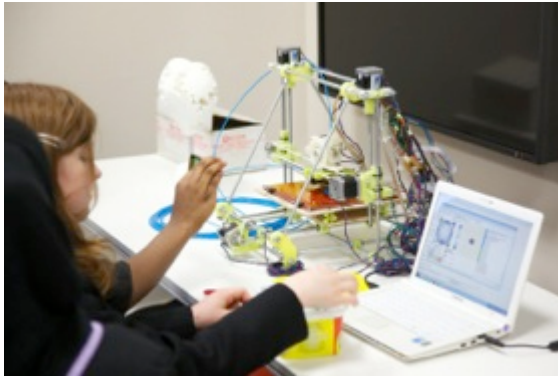
TeenTech Founder Maggie Philbin finds out what teenagers think of STEM career

“I always thought scientists were quite tall with glasses and boring. And old. And usually men. But here they’re so full of life and funny” Lisa, 12

“I really enjoyed being allowed to be creative, think for myself and come up with my own ideas. I do have a tendency to take things apart and my Dad gets a bit cross about that normally” Ollie, 12

TeenTech 2014

More than 4000 teenagers and 450 teachers from 400 schools will join 1000 engineers, technologists and scientists at our events across the UK. We not only feature the work of global, national and regional business but also that of small start-ups and university spin outs. The technology surprises not only the students but many of the exhibitors.



The events are industry led – focussing on real career opportunities and helping young teenagers and their teachers understand the skills they need to take advantage of them. TeenTech events are popular and we always have a waiting list.

Most of our 2014 events will run with pre-or post event CPD sessions for teachers across the region.

Schools, regional councils and the local community enthusiastically receive our events. By working in partnership we draw upon the knowledge and meet the needs of specific communities. We work diligently with the very best in the field to ensure a high standard of content and we collect and act upon feedback.

The impact of every TeenTech event reaches far beyond the event itself. We work closely with national organisations and our regional partners who continue to develop the enthusiasm generated on the day, helping young people to find opportunities in and out of school to develop STEM skills.



“ Not only did the students enjoy the day and come away enthused but so did I. It was great for getting to know about cutting edge technology and I have been inspired to develop a few new projects based on what I saw. Living in isolation in a school makes it difficult to keep up to date - I'm sending my 2nd in department next year” Teacher, Humber

“The live survey on how little understanding about science and engineering careers the students have was an eye opener. Makes us realise how much work we have to do to change this” Teacher, Humber

“A great day and a really necessary event. Particularly for our girls, as we need more girls in science and technology” Teacher, Kent

What happens on the TeenTech day?



TeenTech is a highly interactive event designed to inspire young teenagers and their teachers about the contemporary world of Science, Engineering and Technology. TeenTech gives Y8/ Y9 students and teachers the opportunity to try their hand at experiments, to handle leading edge technology and, most importantly to spend time with the Engineers, Technologists and Scientists influencing their 21st century lives.

It's a powerful intervention just before students make GCSE subject choices, dispelling gender stereotypes and shifting perceptions of careers teenagers may have considered "difficult", "geeky" or "boring".

The event is lively but very carefully organised. Students move in small groups, led by an industry "Ambassador" through the Innovation Zone, Insight Exhibition and Challenge Zones.

We support all our exhibitors, helping understand how to create and develop strong, focussed activities which really engage the students and their teachers.

By highlighting different entry levels, including those for apprentices and technicians as well as graduates, we encourage young people of all abilities

Our research shows this carefully organised day:

- Helps teenagers to refocus their thinking about school subject choices and to consider career paths they never knew existed.
- Changes their perceptions about STEM and the people who work in it
- Gives some students confidence about their abilities they may not have found in the classroom.
- Sharpens teachers' knowledge about industry and provides plenty of ideas to enrich lessons.
- Builds new relationships between schools and companies
- Makes companies aware of the latent talent in the classroom

A condition of attendance is for each group of students to share their experience when they return to school. They do this by leading assemblies, reflecting their day on the school website or making and sharing a video



them

The TeenTech Awards

We set up the Award programme in September 2012 to help encourage the young people who attend our events to develop the interest and enthusiasm aroused on the day and also to bring some of the TeenTech experience to all students in the UK.



Students are encouraged to come up with ideas to make life better simpler or easier. Each of the categories is linked to the industries of the future and has a different global sponsor.

The inaugural Awards were a tremendous success, with entries from over 375 teams across the UK.

The final judging day and Award ceremony took place at The Royal Society and was supported by many well known faces in Science and Technology who took a keen interest in the young people's ideas.



The quality of the projects was remarkable and students and teachers said how much they had enjoyed the structure of the Awards, which provided many valuable experiences in and out of the classroom.

The category winners were then invited to Buckingham Palace to receive personal congratulations from our patron HRH Duke of York KG



TeenTech Sponsorship

We invite sponsorship on a Headline, National, Regional or per event basis with appropriate branding, recognition and profile at each level.

We are keen to liaise closely with sponsors, complimenting and enriching existing CSR programmes or helping you to develop an appropriate and stimulating opportunity for every member of your company who attends TeenTech.

Many organisations have observed that the event provides staff with a valuable structured opportunity to work with young people, less daunting than walking into a classroom. It also encourages deeper relationships with regional schools and communities.

"There's a fantastic buzz here. I remember when I was this age but I lived in Lanarkshire and the only industry there was the steelworks. It is superb that 12/13 year olds get this kind of experience, the engagement between business and students is absolutely vital."
Ross Wilson, Chairman of Institute of Directors (Berkshire)

"Alongside the benefit to the teenagers was the positive employee engagement. The engineers who took part displayed pride in their skills and our company. The engineers expressed being inspired by the teenagers as much as they inspired."
Valerie Elliot, Sony UK

"At Airbus, we know that engineering is both exciting and challenging. We are working at the cutting edge of technology and with our next generation of aircraft we're constantly innovating, inventing and improving. It's our passion and we want to inspire young people to feel the same - that's why we're proud to support the TeenTech Awards."
Neil Scott, Vice President Head of Engineering UK at Airbus



HRH The Duke of York visits TeenTech Hampshire

TeenTech CIC

TeenTech is a Community Interest Company (CIC), which relies on sponsorship to fund our development work and run each event. At the core of TeenTech is a lean, efficient and professional organisation with a deep understanding of the issues facing STEM industries and a wealth of experience in live events. We develop the shape of the content, build lasting relationships with national and international companies and with professional organisations helping them where necessary to develop engaging activities for teenagers.

We select our regional partners with great care, working with established Education Business Partnerships, Universities and Colleges who deliver our proven event template alongside us. To maintain the high standards which are part and parcel of the TeenTech experience we are very “hands on” with our partners during the entire planning process. We bring the very best science, technology and engineering to every event and support regional contributors as they develop fresh and exciting content for students and teachers.

TeenTech Board

“A generation sits in classrooms convinced subjects like Maths and Physics are irrelevant because they’re “going to be famous”. I met one group of students, who when asked to name a modern scientist or technologist could only name Einstein. Working on *Tomorrow’s World* allowed me to meet many brilliant and engaging people behind inventions. TeenTech does the same for young people before they make critical decisions over GCSE choices”
Maggie Philbin, Founder and CEO TeenTech CIC, Science and Technology Broadcaster.

“We’re acutely aware of the shortage of suitably qualified individuals in the UK. Qualifying at any level in a Science or technical subject gives you a much better chance of a very well paid career” **Chris Dodson, OBE,DL, Founder and Chairman TeenTech CIC, Chairman Mortimer Group, Member Catalyst**

“Having spent much of my career working in Technology at the BBC I am thrilled to be part of TeenTech, helping to enthuse the Scientists, Engineers and Technologists of tomorrow that the UK so badly needs”. **Roland Allen, Director TeenTech CIC and Technology Mentor, Rolytech**

“TeenTech opens eyes, bridges gaps and builds new relationships. I’ve seen it in action in East London creating a buzz, raising aspirations of young people and teachers, and inspiring one of the mentors to blog that it had relit his fire. I’ve had so many opportunities through my career in technology and I’m delighted to help inspire the technologists of tomorrow.”
Sue O’Hare, Non- Executive Director TeenTech CIC, Director of Enterprise, City University

“Alongside the benefit to the teenagers is the positive employee engagement. The engineers taking part display pride in their skills and company. They expressed being inspired by the teenagers as much as they inspired with the questions from the teenagers giving a different perspective. I personally believe within corporate organisations we should be supporting STEM initiatives to build the skills we will need in the future”.
Valerie Elliott, Non- Executive Director TeenTech CIC

