



Teacher overview



The STEM Insight programme offers staff in schools and colleges a unique chance to experience work in modern industrial or academic settings and use this insight to enrich the teaching and learning of STEM subjects and contribute to the careers strategy for secondary and post-16 students.

Participants can choose between:

Insight into industry - updating their knowledge and awareness of modern STEM related careers in industry during a placement with an employer.

Insight into university - undertake a university placement to see what life is like for STEM undergraduates and academics in the 21st century.

Every participant is supported by a package of face-to-face and online CPD to help them harness their experiences once back in school or college.

Eligible schools will receive generous bursary support from Project ENTHUSE to cover the cost of participating in the scheme.



Insight into industry

**Insight into
industry** aims to
provide inspirational
experiences for
secondary and FE staff
involved with STEM
subjects.

- gives a unique chance to experience STEM work in modern industry and use this insight to enrich the teaching of STEM subjects
- is an invaluable CPD opportunity which equips schools and colleges to respond to the Government Careers Strategy and transform careers guidance
- provides teachers, lecturers, managers and technicians with a better understanding of the breadth of STEM-related occupations within the industrial sectors of the UK, raising awareness of the career paths and progression routes through to industry
- fosters links between schools, colleges and industry
- builds a community of practice, with a network of school/industry experts who can support other colleagues in schools and colleges



Insight into university

**Insight into
university** aims to
provide inspirational
experiences for
teachers of STEM
subjects.

- is an unique chance to experience the changing nature of STEM subjects in Higher Education and the skills required for undergraduate study
- is an invaluable CPD opportunity which equips your school or college to respond to Governments Careers Strategy and transform careers guidance on future career paths and preparation for Higher Education across the school
- providing teachers with a better understanding of the breadth of academic research within a wide range of STEM related subjects, raising awareness of the career paths and progression routes through to Higher Education
- fostering links between schools, colleges and academia
- building a community of practice, with a network of HE/teacher experts who can support other colleagues in schools and colleges



We offer a flexible approach to joining the STEM Insight programme.

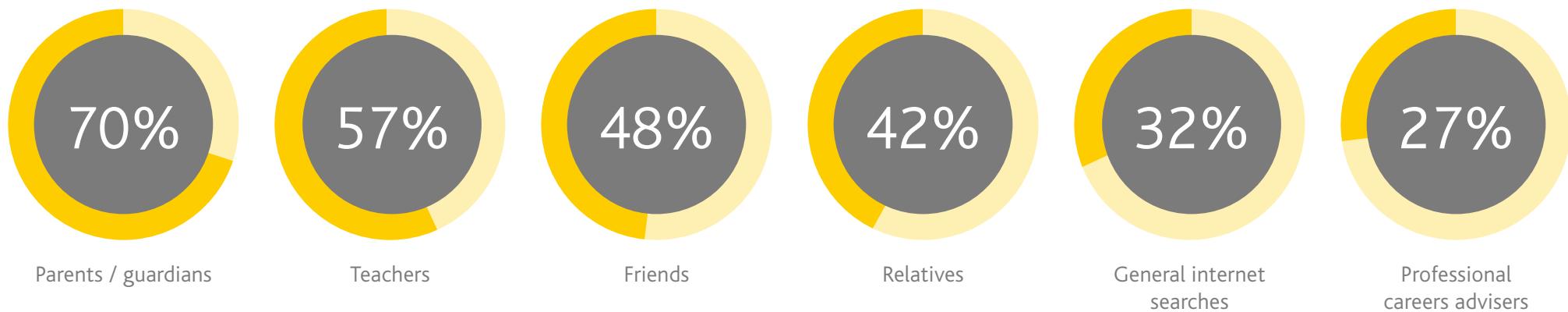
- partner-led: an industry or university partner can offer placement(s) which are promoted through the National STEM Learning Centre website and our network of partners and ambassadors across the UK
- teacher-led: a teacher/school requests a placement near their school or college. The National STEM Learning Centre will aim to secure a local employer to match their requirements
- strengthening an existing school or college/employer partnership: offering access to the STEM Insight programme to further develop an existing partnership

In each case, the National STEM Learning Centre will make all of the arrangements necessary to help both the employer and teacher, supported by an underpinning CPD Programme.

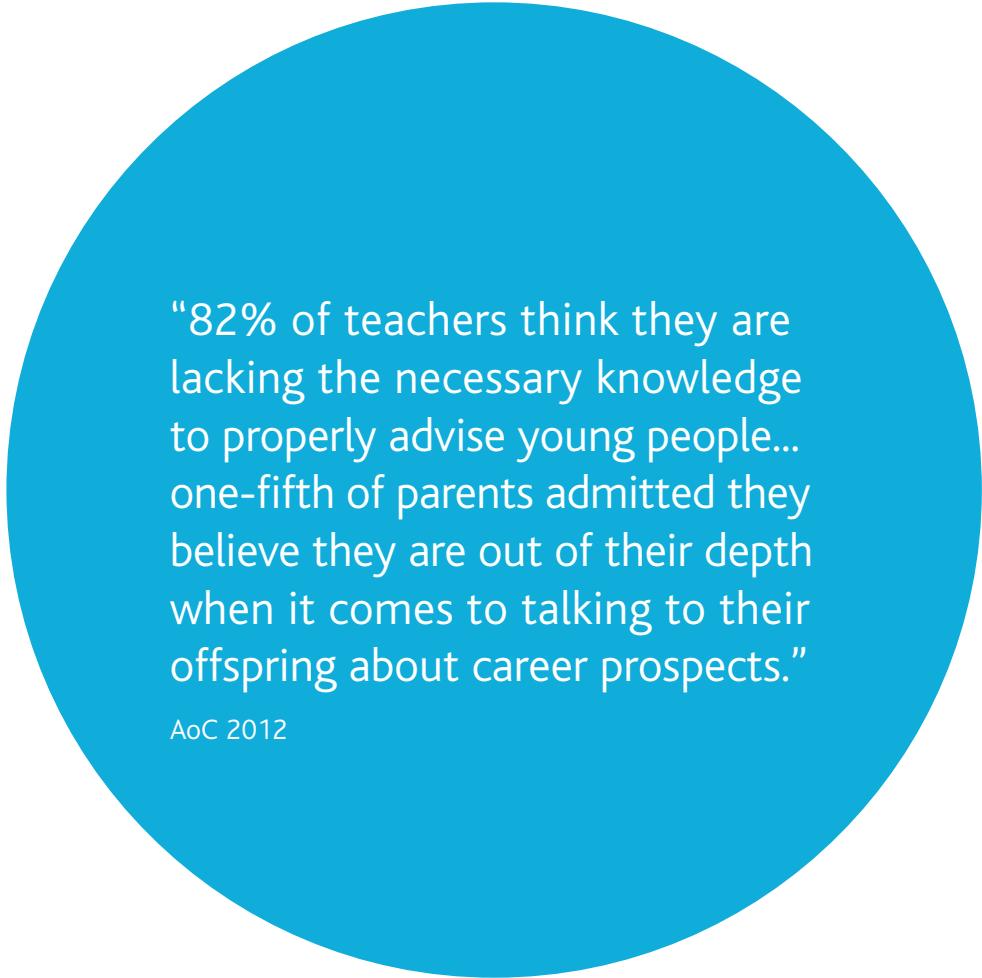
Why was STEM Insight developed?

Recent studies have shown that teachers are one of the most important influences on a students' career choice.

Where do young people find careers information and advice?



Source – 'Careers Guidance; Guaranteed', summary report of online survey, AoC January 2014



“82% of teachers think they are lacking the necessary knowledge to properly advise young people... one-fifth of parents admitted they believe they are out of their depth when it comes to talking to their offspring about career prospects.”

AoC 2012



“Nearly 53% of teachers do not feel confident giving advice about apprenticeships. In contrast, more than two-thirds said they were very or quite confident advising students about university study.”

EET/TES survey 2012

Hence the STEM Insight programme aims to inspire secondary teachers of STEM subjects and FE professionals to enrich their knowledge of STEM industry and university life so they can better support their students.

Does it make a difference?

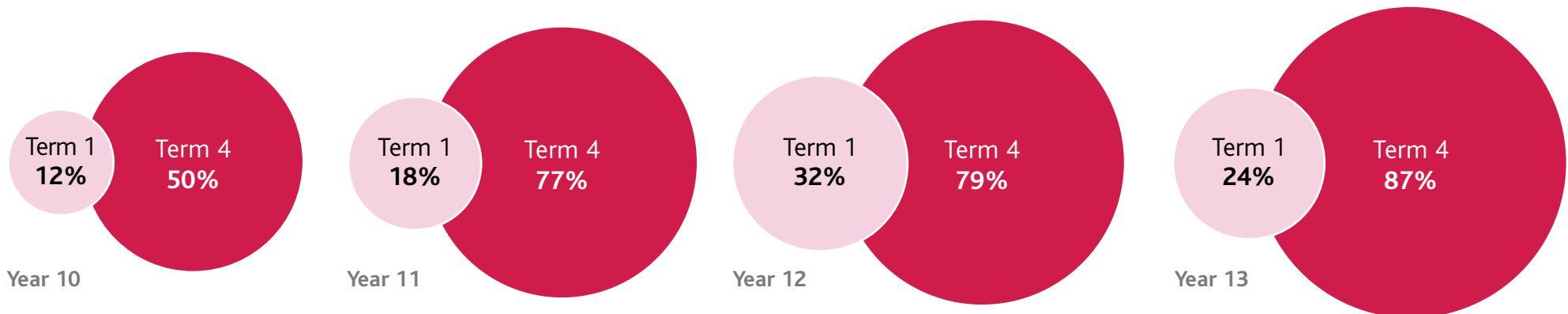
David Sandall participated in the programme in 2014 with Crossrail.

"I learned so much about the range of opportunities in engineering for my students and the alternative pathways like apprenticeships that they can take instead of standard university routes. This was one of the most useful CPD experiences I have undertaken."

This graphic shows the increase in student awareness of apprenticeships at David's school, before and after his participation in the STEM Insight programme.

Were students aware of STEM/engineering opportunities such as apprenticeships?

Awareness of career opportunities



Source – STEM Insight participant feedback, David Sandall, 2014

“Looking back I feel privileged to have been part of this, especially with my experience with Crossrail and so close to home, it was absolutely brilliant!

You’re doing a grand job in putting together such a worthwhile programme, who said work experience is just for teenagers!”

Rose Russell, Ursuline Academy Ilford
Participant, 2015

"I cannot thank the staff and students enough for their friendliness and high degree of professionalism. The students were friendly and helpful during supervision and practical sessions; postdocs and research staff were supportive and helpful. Senior staff / Heads of department could not do enough to make sure I had all the information I needed and access to areas."

Helen West, Cambridge Regional College
Participant, 2016

Who can take part?

Placements can be hosted in:

- Scotland
- Wales
- Northern Ireland
- North West
- Yorkshire, Humber and North East
- Central England
- London and the South East
- South West



How do we find out more?

Further information can be found on the National STEM Learning Centre website: www.stem.org.uk/stem-insight.

If you would like to speak to a member of the National STEM Learning Centre team, please contact: insight@stem.org.uk.



“Now that I’m back at work it all feels like it’s clicked into place and I can relate my teaching to real life experience – something I wasn’t able to do before taking part in the scheme.”

Teacher participant 2014



This is made possible by the generous support of our partners in Project ENTHUSE: the Wellcome Trust, Department for Education, BAE Systems, Biochemical Society, BP, Institution of Engineering and Technology, Institution of Mechanical Engineers, Rolls-Royce, Royal Commission for the 1851 Exhibition, Institution of Structural Engineers, IBM and the Royal Society of Chemistry.

STEM Learning operates the National STEM Learning Centre and Network, alongside other projects supporting STEM education.
www.stem.org.uk