

Science

Stem Case Study- Peter



Pete **Wearden** was introduced to the STEM Ambassador programme by a Lancashire Education Business Partnership employee.

Pete has become a huge asset to the Ambassador programme - delivering the Royal Society of Chemistry- Crime Scene Investigation (CSI) Programme to schools across Lancashire for a number of years. He has also run interactive workshops at the Royal Society of Chemistry- 'A Day in a Lab events'.

Pete believes that by taking employers from STEM industries into schools it gives students the opportunity to take part in 'real life science' that they do not get to experience in the classroom. On the Crime Scene Investigator Project, students take on the role of the investigator and work as team to solve a crime. The day gives students the opportunity to ask Pete questions about the world of work and his career experience. Pete's ultimate aim is to inspire students and open their eyes to the world of science and how it fits into many different jobs that they may never have considered. Pete says that working with students from Primary through to Secondary level can be a tall order, but if you can communicate with a student audience, you can communicate with anyone. Lancashire Education Business Partnership has helped Pete to engage with schools and keep him up to date with the curriculum. He says that this is down to the excellent partnership that Lancashire Education Business Partnership have with Lancashire schools. Working with schools for a number of years, Pete knows how hard it can be to arrange to go into schools independently. The well known name of Lancashire Education Business Partnership and Stem Ambassador programme has helped to overcome this by providing him with a CRB clearance and training which schools recognise. When asked 'If you were to recommend becoming an Ambassador to a colleague, what would you say are the benefits?' Pete said

'It is a great way to get science into schools and encourage students which is important as they are our future workforce. Most of all- it's good fun!'

Technology



Stem Case Study- Amie Proud

Amie Proud has just completed an Advanced Apprenticeship Programme in Mechanical Manufacturing at Rolls Royce, Barnoldswick.

In the final year of Amie's apprenticeship, she was asked to develop a community project with local primary schools. She decided that in order to engage with the schools she would join the STEM Ambassador Programme which is organised through Lancashire Education Business Partnership.

Amie says 'I wanted to get involved in a community project which introduces students to the world of Science, Technology, Engineering and Maths (STEM). I joined the STEM Ambassador programme as I knew that STEMNET had a good reputation amongst schools and would help with school engagement.'

In June 2009 Amie organised a STEM Activity day as part of her Community Project, which involved four local primary schools. The day involved running nine activities, some of which Amie had developed herself. The activities had been carefully chosen and developed so that they fitted into the national curriculum and were relevant for the appropriate age range of the students.

Amie says; 'For me being a STEM Ambassador brings great satisfaction. I enjoy preparing and delivering programmes which will benefit students in school. By taking STEM Ambassadors into the classroom, students can see and relate to STEM related jobs from people who do it everyday and pass on their experiences'

Engineering

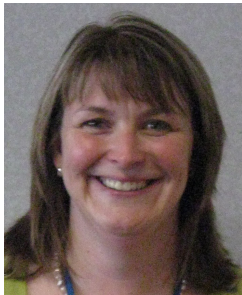


Stem Case Study- Emma McInerney

My Name is Emma McInerney and for the past eighteen years I have worked for BAE Systems, in the Military Air Solutions (MAS) part of its business.

The company designs, builds and maintains military aircraft like the Typhoon, Tornado, F-35 and Hawk for our UK and overseas customers. I started as an apprentice at sixteen working as an electrician on the aircraft and was sponsored to go to Loughborough University where I did a Masters Degree in Systems Engineering. I am now a Chartered Engineer with the Institute of Engineering and Technology and a STEM Ambassador, all on top of the day job.

I have had many varied and rewarding jobs in my career and I have spent a lot of time helping promote the Engineering Profession to young people. I have been with the schools partnerships schemes for the past fifteen years and have had some great experiences in that time. There is a continuing challenge in attracting young people into engineering and aerospace. The key I think is to promote what engineers actually do, not at all the stereotype of someone in overalls with an oily rag! The role of today's engineers requires them to have many academic skills as well as that inherent interest in pulling things apart to see how they work. One of the most rewarding things for me is seeing a young person making an informed choice on their future due to the opportunities that being involved with STEM has given them.



Maths

Stem Case Study- Julie Fenelon

I am Julie Fenelon; aged 46 years, married with two daughters aged 20 & 17 currently working for the Co-operative Financial Services.

I manage a co-ordinated education and training programme that works in partnership with West Lancashire schools and Lancashire Education Business Partnership. The training programme draws on the expertise and experience of Co-operative employees to help improve the aspirations of young people.

I was invited by Lancashire Education Business Partnership to attend a STEM Ambassador course at the Co-operative Bank, Skelmersdale. I readily took this up as I felt this was a real opportunity to give something back to the community by sharing my skills and knowledge. The course was relaxed, informative and very enjoyable. It was good to get a feel for some of the basic skills needed and to be CRB checked which is important when working with young people.

Being a STEM Ambassador is very rewarding and can open up many avenues to you, including initiatives such as mock interviews and enterprise challenge days. The enterprise challenge days really stand out for me as I think it is a great way for pupils to get a sense of what it's like in the real world and how to be a good businessman/woman. The students were eager to learn and really enthusiastic, and some of them look like they may even end up on 'the apprentice' in a few years time!

I would wholeheartedly encourage anyone who is enthusiastic and a good role model to attend a STEM Ambassador course. I find that volunteering not only helps improve the aspirations of young people but contributes to my personal and professional development.