

### What are STEM Ambassadors?

STEM Ambassadors are volunteers of all ages and STEM backgrounds from apprentices to geologists, nuclear physicists to zoologists.

### Have they received any training to work in schools?

All STEM Ambassadors are registered, enhanced CRB checked and have each received an induction into working in the classroom.

### What can they do?

Lots! STEM Ambassadors can get involved in giving careers talks, helping out with STEM Clubs, running workshops in local schools & lots more.

### How much do Ambassadors cost?

Absolutely nothing.

### How do I access Ambassadors?

Simply contact STEMFirst.

Web:

[www.stemfirst.com](http://www.stemfirst.com)

Email:

[contact@stemfirst.com](mailto:contact@stemfirst.com)



## Graeme's STEM Activity

Flaming Hands Experiment

Primary Engineer Judge

Engineering Your Future

STEM Leaders Award

MATHEMATICS  
Science  
Engineering  
Technology

STEM  
Ambassador  
Program

# Case Study

## Quick Questions:



*Did you have a 'light-bulb' moment that made you follow the STEM route?*

Yes! I was looking at engineering whilst at school but nothing felt right. I then saw a video in my Chemistry GCSE class about a chemical engineer working on a large chemical plant. It looked really varied and interesting and immediately thought 'that's for me!'



*In 20 words what would you say to a teacher to encourage the use of STEM Ambassadors?*

STEM Ambassadors let students see that real, normal people are actually engineers and scientists, and STEM jobs that can sound complicated are attainable.



*Is there one thing you wished you had known at school that you know now?*

Erm how to talk to girls! No seriously I didn't think I would be able to get sponsorship for my degree so didn't even research it. I should have as a lot of engineering students can get financial help and more relevant work experience whilst they are studying.



## Graeme Calvert

### Process/Chemical Engineer

I am a Plant Technical Engineer and I work for Johnson Matthey in Clitheroe.

At school I wanted to combine the three subjects that I enjoyed and was good at...Chemistry, Physics and Maths plus give me opportunities regarding rewards and future prospects. I therefore picked Chemical Engineering.

Chemical Engineering is about feasibility, design, construction, commissioning and operation of chemical plants safely, efficiently, sustainably and environmentally.

I love coming up with new ideas and making things

work when they haven't done before – my job is mainly about problem solving.

#### Why are you an Ambassador?

I love sparking interest and enthusiasm in students by illustrating the fun aspects of my job. It's great doing exciting experiments that explode, flash or do unexpected things and seeing the students reaction! It is also good to remind myself why I do what I do and to improve my presentation and communication skills.

My best experience was the looks on the faces of 60 students when I (deliberately) set my hands on fire during the Flaming Hands Experiment!

