

About the Engineering Engagement Project

Inspiring future generations to follow a career in this area is a priority for The Royal Academy of Engineering and the Engineering Engagement Project led by the Academy, working with the wider STEM community, will help to ensure that engineering can play a major part in solving global problems such as climate change, food and water supply and energy security.

Aim of the project

By supporting teaching and learning in the areas of science, technology, engineering and mathematics (STEM), the Engineering Engagement Project aims to widen participation in STEM by helping teachers and pupils realise the significance of engineering to their everyday lives.

The approach

Part of a larger National Engineering Programme led by The Royal Academy of Engineering, the Engineering Engagement Project is creating a network of schools and teachers who work with the Academy to build engineering into their ethos, enabling pupils to foster an appetite for STEM subjects and forging lasting relationships between their schools, national teaching and learning providers and local industry.

The project will build on the learning from other Academy led projects such as the London Engineering Project (www.thelep.org.uk) and look to disseminate good practice to schools and teachers around the UK.

What we offer

Schools have the opportunity to join a network of schools across the UK who all benefit from support in STEM teaching and learning in four main areas. All schools have to do is fill in the 'How to Get Involved' form and let us know in which areas they'd like support.

The four areas are:

- **Clubs**

Support and guidance for setting up and running both new and existing science and engineering clubs, including CPD resources for club leaders and help identifying inspirational STEM activities to run in your club. Details of the existing STEM Clubs network, co-ordinated by STEMNET are at www.stemclubs.net

- **Teacher's**

CPD

Receive priority access to newly developed CPD for design and technology teachers and those who deliver the engineering diploma.

- **Role**

models

Increase the links between your school and local industry by inviting into your school inspirational local engineering role models that your students can relate to. Details of the STEM Ambassadors Programme are available at www.stemnet.org.uk

- **Curriculum**

resources

Help develop and be the first to use new curriculum resources which demonstrate the link between the curriculum and real-world engineering.

The Royal Academy of Engineering is grateful to BAE Systems for its generous support which has enabled the development of this project.

BAE SYSTEMS

Job Description

Full time (fixed term 18 months)

1. Job Title	Resource Coordinator for STEM After-School Clubs and STEM Ambassadors
2. Job Purpose	The Resource Coordinator will work on a day to day basis with STEMNET to develop resources and materials to include in CPD training courses for teachers seeking to start a STEM Club with a particular engineering focus, and for engineers seeking to enhance their skills in demonstrating the excitement and relevance of engineering in their capacity as STEM Ambassadors.
3. Accountability	Accountable to the Education Programmes Director who is the post-holder's supervisor within the meaning of the Health and Safety at Work Act. However, this role will be embedded within STEMNET and so day to day responsibility will be to the Programmes Director at STEMNET.
4. Key Tasks	<ol style="list-style-type: none">1. To work with the STEMNET Clubs coordinator to develop ways of enhancing the engineering-related STEM Club CPD offered to teachers.2. To develop channels to ensure that teachers have access to engineering-related STEM Club CPD and to cascade this training to relevant STEMNET staff, British Science Association personnel, STEMNET contract holders and key teachers.3. To work with the STEMNET manager for the STEM Ambassadors scheme to develop ways of enhancing the engineering-related CPD offered to STEM Ambassadors.4. To drive and co-ordinate the development of engineering-related STEM Ambassador training modules and to cascade this training to relevant STEMNET personnel, STEMNET contract holders and key STEM Ambassadors.5. To produce high-quality learning resources for use in engineering-related STEM Clubs and by engineering STEM Ambassadors.6. To undertake any other duties reasonably required by the Education Programmes Director at The Royal Academy of Engineering or the Programmes Director at STEMNET.

5. Key Results	The following key results are expected:
	<ul style="list-style-type: none"> • A suite of engineering-related STEM Club CPD modules created, each one pilot tested; • Appropriate key people (at least 25) trained in the deployment of the STEM Club training modules; • A suite of engineering-related STEM Ambassador training modules created, each one pilot tested; • Appropriate key people (at least 25), including the sub-regional STEM Ambassador managers, trained in the deployment of the STEM Ambassador CPD modules; • A business plan created for the ongoing use of the engineering-related STEM Club and STEM Ambassador CPD modules.
6. Knowledge/ Skills	<p>The post holder will have the following knowledge, qualifications and experience:</p> <ul style="list-style-type: none"> • Innovative ideas for how to develop effective training which allows club leaders and STEM Ambassadors properly to convey the relevance and reach of engineering; • Good working knowledge of the maintained schools system; • Experience of working in a coaching or training environment; • Excellent project-management and administrative skills; • An understanding of the nature of modern engineering practice and an ability to link this to the engineering science and maths that underpins it; • Excellent communication skills; • The ability to undertake all their own clerical and administrative work; • An interest in the education of young people; • A commitment to widening participation in engineering education; • A willingness to travel within the UK; • A satisfactory enhanced CRB disclosure (this will be organised by STEMNET – existing disclosures will not be accepted)
7. Resources	The post holder will have available all the standard services and supply agencies supplying The Academy. They will be given an adequate budget for the development of all training and learning resources.
8. Autonomous Actions	The post holder will be expected to carry out the tasks defined above with initiative and without undue reference to the Education Programmes Director. On a day to day basis they will work with relevant STEMNET personnel
9. Terms of Reference and Conditions	The terms of reference and conditions for the post are contained in a personal contract of employment issued and signed separately. The post holder must be willing to attend meetings outside normal working hours and to travel within the UK and overseas if required to do so.