

## ENTHUSE Partnerships – a solution to the STEM skills gap

*“Our evidence suggests a positive impact on pupils’ outcomes both in terms of academic attainment but especially in relation to pupil engagement and enjoyment of STEM subjects... [Also] pupil understanding of the value and applicability of STEM subjects and careers had increased at primary and secondary level.”<sup>1</sup>*

### What are ENTHUSE Partnerships?

ENTHUSE Partnerships inspire young people in STEM (science, technology including computing, engineering and mathematics) subjects and careers. They are groups of schools and/or colleges that work together to address local issues of low uptake or underachievement in STEM subjects. The school/college-led model builds capacity and capability across all partner schools / colleges involved, whilst encouraging sustainable change. The Partnerships aim to deepen relationships with local employers, and utilise the wider package of support provided by STEM Learning.

### The objectives of ENTHUSE Partnerships

- To raise attainment in STEM subjects by improving student attainment and progress
- To close achievement gaps
- To improve progression opportunities in emerging technologies
- To improve teaching and learning through developing teachers’ subject knowledge, pedagogical understanding and their understanding of the application of STEM subjects in business and industry
- To improve STEM careers awareness, information and guidance for teachers enabling them to embed real life contexts into their teaching and enable them to talk more confidently about STEM careers
- To improve social mobility of disadvantaged and under-represented young people

### How ENTHUSE Partnerships work

We believe strongly that the best way to support pupil development is by developing their teachers. ENTHUSE Partnerships work across groups of 6-8 schools and colleges to develop a bespoke two year action plan which includes:

- Teacher CPD - residential, local and online
- Resources - free, curated and quality assured
- Teacher placements - immersion in industry or university
- STEM Ambassadors - employees inspiring pupils and teachers
- STEM Clubs and activities - exciting young people and developing practical skills

### What is involved

- The partnership of schools/colleges is recruited by the successful lead school/college with support from STEM Learning where required
- Online induction
- Engagement with funder employer/other employers to support the partnership
- Action plan development with support from STEM Learning subject experts
- Up to £20,000 worth of support tailored to your needs, including supply cover costs up to £4,000, and £1,000 for student activities. Most of the funding will be held in a virtual account to be used in accordance with a pre-agreed project plan which includes some mandatory elements.
- Further information at [www.stem.org.uk/enthuse-partnerships-schools-and-colleges](http://www.stem.org.uk/enthuse-partnerships-schools-and-colleges)

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<sup>1</sup> ENTHUSE Partnerships external evaluation and impact report by Curee 2017  
([www.stem.org.uk/resources/elibrary/resource/417168/enthuse-partnership-impact-report-2017](http://www.stem.org.uk/resources/elibrary/resource/417168/enthuse-partnership-impact-report-2017))  
ENTHUSE Partnerships – external brief for schools & colleges 140120

## Further information on expected activities

Selected ENTHUSE Partnerships will be expected to engage in the following activities:

Activity type	Further details
<b>Choose your partner schools/colleges</b>	You will choose the schools or colleges to form the partnership. There should be a minimum of 6 but usually no more than 8 in the partnership. It can usually be a mix of phases (primary, secondary, FE) but in some instances a particular phase might be specified (we will let you know if this is the case)
<b>Online induction</b>	A link to an online induction course will be sent to successful partnerships. The site will provide you with guidance to help you start your partnership and to progress through the two years of the partnership and beyond.
<b>Action planning</b>	Usually started ahead of the induction and continues throughout the partnership. In consultation with the other schools/colleges and supporting employer (if they wish to be involved/support the planning stages) you will develop an action plan which maps out the plan of action for the next two years to address a particular STEM need within your partnership. The year group, cohort of students and STEM focus is usually down to you (if a particular focus has been chosen by the funder we will let you know). What we do ask is that the theme of improving STEM career aspirations and working with employers (or a specific funding employer) is integral to the project and that you also work on developing a sustainability plan for beyond the period of funding.
<b>STEM Learning coach</b>	You will be allocated a subject expert coach from STEM Learning who will be able to help you develop the action plan of CPD and activities and to guide you to suitable CPD and resources.
<b>Mandatory CPD</b>	Residential CPD at the NSLC for 2 teachers Teacher/Facilitator Development Programme for 1 teacher
<b>Mandatory ENTHUSE Placement</b>	For 1 teacher within the partnership – further information at <a href="http://www.stem.org.uk/enthuse-placements/attend">www.stem.org.uk/enthuse-placements/attend</a>
<b>Other external CPD</b>	For example, other CPD attended at the NSLC or local Science Learning Partnership (SLP)
<b>School/college-led CPD</b>	CPD delivered from a school or college within the ENTHUSE Partnership
<b>Partnership networking activities</b>	For example, meetings between schools/colleges within the partnership to share ideas and plan strategies.
<b>Employer engagement activities</b>	For example, employers may provide resources, site visits or engagement with STEM Ambassadors. The funder of your partnership may wish to host the induction meeting/ meet with your partnership and we would expect you to facilitate this.
<b>Student activities</b>	Activities for students, linked into the action plan (for example, visits or STEM Club activities)
<b>Reporting</b>	The action plan is to be updated on a termly basis. There is also an assessment toolkit (consisting of a simple teacher survey, student survey and attainment) to complete on an annual basis. Presentation of achievements in the form of a case study at the end of partnership.

## Funding

- £1,000 start-up fee
- £4,000 for supply cover costs
- £1,000 for student activities
- £1,000 for administrative costs (to facilitate meetings and so forth).

The above will be made in termly payments to the lead school subject to receipt of satisfactory activity reporting.

The remaining bursary is held in a virtual account to pay for CPD and is drawn down as required in accordance with the approved action plan. An element of the funding is used to cover the costs of providing the CPD.

## Expected time investment

Staff release time for CPD, possibly in the region of 4-6 teacher days per school per year (this would include time for network meetings, accessing resources and coaching so it is not all face-to-face time). In addition to this the lead contact would probably spend about 1 hour per week on reporting, communications and co-ordinating the partnership (we would expect though that this time could be shared with a nominated deputy lead of the partnership).

## Further information

You can register your interest at [www.stem.org.uk/enthuse-partnerships-schools-and-colleges](http://www.stem.org.uk/enthuse-partnerships-schools-and-colleges).

For further information email [enthuse-partnerships@stem.org.uk](mailto:enthuse-partnerships@stem.org.uk)