

Hello STEM Ambassadors,

A special message from Roopa;

It goes without saying that this year has challenged us all but it has been incredible to see how our STEM Ambassadors have risen to those challenges. You have planned, innovated and adapted like never before, providing an essential STEM enrichment lifeline to teachers, families, children and young people. Bubbles, social distance, digital and, “You’re on mute!” are some of our new words and phrases of the year but one thing has remained constant and unwavering – the inspirational support provided by our STEM Ambassadors.

As we move towards recovery from COVID-19, it’s more important than ever to ensure we continue to inspire the STEM innovators of the future – highly skilled, resilient and creative young people who will work on the solutions we all need. The STEM Ambassador programme is a critical component of this global recovery and we want to say a huge thank you to you all for your inspirational work.

Wishing you a safe and happy festive season.

Roopa Master-Coles
STEM Engagement Manager
On behalf of the STEM NOW Team



AI the Robot and the Three Bears



AI the Robot and the Three Bears Coding Pantomime!

A Pantomime? With Coding? Oh no it isn't ... oh yes it is!!
Yes! Our Christmas 2020 Pantomime is virtually here – and still with all the trimmings!

Can Professor Trice and AI the Robot save the Three Bears' Christmas Breakfast in time? If you go down to the woods this Christmas, you can be sure of a big coding surprise - along with laughter, chaos, and a bit of Christmas magic

This 20 minute show is aimed at primary school aged children, but really everyone will get caught up in the fun! Enjoy watching Get with the Program's Professor Trice and AI the Robot go on one of their amazing adventures, combining computing and interactive theatre, but this time with a Christmas Panto twist. Our ever-popular shows are performed on a background of 20 years coding experience, liberally sprinkled with the amazing expertise of school educators we've met along the way. What better way to learn, than to have fun at the same time? And if you'd like to continue learning with us afterwards, why not get in touch and [Get with the Program](#).

To spread some Christmas cheer this year we are making the pantomime free to watch from 8 December 2020 onwards. Sign up to receive a free link to view the panto using this [Google sign up form](#). Alternatively

email inspire@stemnow.org if you would prefer to receive a Word version of the form.

[Sign up here](#)



CREST Awards have a new FREE mapping resource for primary school teachers to enrich STEM lessons?

Take a look in the resource library for great ideas and linking them through to the relevant year groups.

[Resource Library Link](#)

Log your Activities



STEM Certificates

The next set of [STEM Certificates](#), covering activities from August to December 2020 will be issued before Christmas.

Please log your activities by 20 December to ensure they are counted for towards the next STEM Certificate.

You can log a range of activities which can include online training, school governor meetings and creating resource on or offline.

[STEM Ambassador Website](#)

Nuffield Research Placements



Applications open now - could your employer help with a placement?

STEM Learning have recently taken over the delivery and management of the highly regarded and well-established [Nuffield Research Placements](#) (NRPs) programme for post-16 students.

Supported by the Nuffield Foundation, NRPs provide amazing opportunities to Year 12 (or equivalent) students from low socio-economic and/or first in family backgrounds to support their progression to STEM-related further study or employment.

This successful programme equips students and develops their STEM research skills through:

- an independent study support package designed to develop their essential professional, research, data and numeracy skills
- collaboration with a knowledge expert on a 'live' research question relating to an area of science, quantitative social science, computing, technology, engineering or maths (or a combination!) resulting in a research poster & report
- a timetable of optional supplementary workshops and webinars that are geared towards careers guidance

and training on key topics e.g. Python programming language.

NRPs are FREE to all students and students from low income households can apply for an additional £200 bursary. We would be grateful to schools, employers and local authorities to encourage applications to this new programme

via www.nuffieldresearchplacements.org

[Click here for the website](http://www.nuffieldresearchplacements.org)

Featured Online Opportunities



Portsmouth

Organised by  

Virtual Inspiring Careers Fair & LIVE Interactive Events

25th January - 5th February 2021 - Virtual Inspiring Careers Fair

27th January - 28th January 2021 - Live Interactive Events

Exhibit at the virtual careers fair and/or run a live activity



Virtual Inspiring Careers Fair

Businesses are being invited to exhibit at the online Get Inspired Portsmouth Careers Fair that showcases local businesses and local career roles that young people can aspire to. It is free to exhibit.

Run A Live Activity Inspiring Young People Into Your Industry

Design and deliver a 20 minute activity virtually to inspire students, into your company/industry and showcase the type of local job opportunities available in the area.

Live Q&A Careers Panel

Sign up to the live Q&A careers panel that is streamed into up to 8 classes. You will give a brief overview of your role and career pathway before the students are invited to ask you questions.

Outcomes For Your Organisation

- Directly engage with a diverse Generation Z audience.
- Inspire and inform the career choices of your future workforce.
- Through activities, encourage young people to consider jobs/careers within your business and industry sector.
- Proactively give back to your community and support the future economic growth of the local area.

Book now at www.ebpsouth.co.uk

Sponsors & Supporters



Get Inspired Portsmouth

We are delighted to announce that Get Inspired Portsmouth is going Virtual!

Come and join the many other Portsmouth Businesses to inspire young people about the diversity of jobs available on their doorstep. By the age 15/16 over one-third of their careers interests lie in just 10 occupations. To overcome this, businesses need to come together to make the variety of occupations more visible for young people to aspire to. We need you to showcase the great work and job roles taking place in the City.

There are several exciting opportunities that you can be involved in:

- Be part of a Virtual Inspiring Careers Fair promoting your industry
- Be involved in a 'live' business task streamed into school classrooms
- Be part of a 'live' Q & A panel sharing your experiences

Your participation in the Virtual Inspiring Careers Fair will be available to local Schools for two weeks from **Monday 25 January** and be viewed by over 500+ students as part of their lesson. Get Inspired 'Live' taking place on **Wednesday 27 and Thursday 28 January 2021** and again will be part of the school lesson plan.

RSVP before **Friday 18 December**. Do also visit www.ebpsouth.co.uk/Event/gip21exhibit for downloadable forms.

STEM NOW Afternoon Tea Masterclasses



Acoustics: Making Noise About Sound

Date: Tuesday, 26 January 2021

Time: 16:00 - 17:00

Led by Dr Nikhil Mistry, Researcher at the National Oceanography Centre Southampton, appropriate for both teachers and STEM Ambassadors.

Nikhil is passionate about acoustics and the communication of the science involved, winning prizes for his work in public engagement. He is particularly keen on working with schools to highlight the importance of the science of sound and encouraging students to study acoustics at a higher level, highlighting the myriad careers available in the field. In this Masterclass,

Nikhil will discuss:

- His observations in science communication.
- The 'hook' and the 'Elevator Pitch'

- › What do teachers need?
- › Careers advice (The Gatsby Foundation)
- › Examples of engagement and outreach in acoustics - the lessons learned and how to use them in the rest of STEM

[Book your ticket here](#)



Save the Date

Date: Thursday, February 11 2021

Watch this space for further details for a Masterclass on Kids careers in Data.

More details to follow....



We NEED you!

If you would like to see any of our previous pre-recorded Masterclasses on **Digital Platforms for STEM Engagement, Top Tips for Online Engagement, ExoMars - The Intrepid Planetary Rover** and **Cyber Security: We Couldn't Play Games Online Without It!** Please [email Lucinda Seward](#) stating which session you are interested in.

We are also looking for individuals and organisations to present for future Masterclasses in 2021.

It's an opportunity to present on a project or a practical demonstration of how to engage with students and share educational resources that teachers and STEM Ambassadors can use with students. Please register your details on the link below.

[Click here to register your interest](#)

Ambassador Activities



Desborough College STEM Talks Technology

Ages 11 - 19 years

15 December 2021 and 19 January 2021

Desborough College are working hard to promote and develop interest in Technology related subjects and would like STEM Ambassadors who have worked or currently work in any field of Technology to give an online talk to students. Our aim is to encourage more young people into the world of technology and technology related areas.

[Register here for 15 December 2020](#)

[Register here for 19 January 2021](#)



Bringing Space to Life - Kidlington Oxfordshire

Ages 9 - 11 years

Date flexible up to 14 December 2020

Charlton-on-Otmoor Church of England Primary School Y5/6 class are learning about space this half term and would love a STEM Ambassador to support us to give our topic some context. The children are showing an interest in the planets - including Keplar, satellites, meteors and the space station. They want to know why the planets don't bump into each other and what would happen if they did!! We are going to be making our own Mars Rover in DT.

Support from someone who could talk to us about any of the above and would be fantastic. Support could be in a socially distanced way at our school or online. Any time before the end of term (ideally before 14 December).

[Register your interest here](#)



Waste Warriors - Stockbridge Hampshire

Ages 5- 7 years

When: 4 January 2021

Stockbridge Primary School is looking for 2 STEM Ambassadors to enhance and help their students in Years 1 - 3. They will be exploring the question - Do we always appreciate what we have got? with our key concepts duty, stewardship and sustainability.

This topic focuses on recycling, reusing and reducing. Children will be looking at everyday materials and their properties. In DT, children will be creating a sandwich wrap from recycled materials.

[Register your support here](#)



Could you help motivate Year 11 students?

Ages: 15 - 16 years

When: 14 January 2021

To help boost opportunities for STEM Ambassadors to support young people virtually, we are trialing a new approach with year 11 students.

Where a student has an aspiration for a STEM related career we are looking for STEM Ambassadors relevant to their area of interest to have an email conversation with that young person. It should be a motivational tool and bring added value to the support we offer. Your conversation with the young person will include either the Careers Adviser or teacher.

We are looking for Ambassadors from across all disciplines, who would be willing to have an initial email conversation with year 11 students, to share information about their job role or industry and answer questions. If the student would benefit from a video call or telephone call we can arrange that. If interested, please email ambassadors@cswwgroup.co.uk

[Register here](#)



Digital Ambassador Programme

KS1-KS4 - Ages 7 - 16

When: immediate start

Winchester Science Centre's Widening Participation team are looking for companies/STEM Ambassadors to help with digital engagement so children at school can still get to interact with employers in this socially distanced world.

We are looking for employers to produce a short **informal** video like this one https://youtu.be/x_h7yB0MdoM, and to commit to at least one 20 minute conference call (facilitated by us) with a class of pupils, so they can ask questions based on your video.

This is a great way to still get out there and inspire classes of children within current restrictions.

Following our pilot run we received this feedback:

"I really enjoyed learning about her job".

"I have just had a zoom call with a really cool person from the science centre. I think you would really enjoy it".

"I liked seeing the experiments Rachael did in her job".

[Register your support here to receive your pack with full details](#)



Online Science Symposium - Bourne End Academy

Online for ages 11 - 19 years

4 January 2021

Bourne End Academy are looking for 10 STEM Ambassadors to give a talk/presentation to students about their career path and their current job/area of research.

Talks can be anything up to an hour long but around 15 minutes would be fantastic, with some time for Q&A afterwards. The symposium will start from the 4 January 2021 and will run every Monday from 4.30pm – 5.30pm on Microsoft Teams until Easter.

[Register here](#)

Latest STEM News



Equity in the STEM workforce

The All-Party Parliamentary Group (APPG) on Diversity and Inclusion in Science, Technology, Engineering and Maths (STEM) has launched its inquiry into Equity in the UK STEM workforce, and is currently inviting submissions of evidence.

[Read the full article here](#)

Competition

The banner features a purple background. On the left, there is a circular orange icon containing a white line-art drawing of a wind turbine. To the right of the icon, the text "How can we use technology to help protect our planet?" is written in white. At the bottom left, the "Amazon Longitude Explorer Prize" logo is displayed, which includes a globe icon and the text "Amazon Longitude Explorer Prize". At the bottom right, the logos for "amazon" (with the tagline "In partnership with") and "nesta Challenges" (with the tagline "Delivered by") are shown.

Nesta Challenges has teamed up with Amazon to launch a fourth edition of the Longitude Explorer Prize - £20,000 available for the winning school or youth group.

The Amazon Longitude Explorer Prize is calling on young people across the UK to develop innovative 'tech for good' solutions to society's biggest issues, to help people to live longer, live healthier, live greener and live together.

The prize encourages young people to apply their creativity and ingenuity to the big challenges of our time, using their knowledge of science, technology, engineering and maths (STEM), and teaching them valuable entrepreneurial skills to help make their ideas a reality.

Get your applications in by 5pm on Friday 12 February! If you have any questions, please contact the team at explorer@nesta.org.uk .

[Click here for further details](#)



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