



INTERNATIONAL WOMEN
In ENGINEERING DAY
23 June 2020

Competition

8 June - 5 July 2020



International Women in Engineering Day

International Women in Engineering Day is an annual day of celebration and awareness for women working in engineering

Do you have a child or children aged: **5-8, 9-11 or 12-14?**

If so... Network Rail are launching a competition for these age groups!

We would love your child or children to research a female engineer who they think has had huge impact on the world, and tell us what the world would be like if that engineering solution did not exist.

Their entry should be in the form of a poster or a story.

Details of how to enter can be found at: www.networkrail.co.uk/stories/educational-resources-for-children

Entries will be judged by a panel of experts and your child or children could win some amazing prizes!

These are examples of some great female engineers:



Agnes Marshall

Who was granted a patent for an ice cream machine that could freeze a pint of ice cream in five whole minutes!



Marie Van Brittan Brown

Marie was the inventor of the first home security system!



Mary Anderson

Who, in 1903, was granted her first patent for windscreen wipers!

For further information and competition terms and conditions please visit: www.networkrail.co.uk/stories/educational-resources-for-children

Extraordinary Engineering Challenge



<https://www.rs-online.com/designspark/extraordinary-engineering-challenge>

We have seen some amazing people make a real difference over the last few months and now it's your chance to get involved.

Can you design a solution that could change our world for the better? Do you want to help combat poverty, disease, and hunger, reduce pollution and climate change, promote good health and wellbeing or even create sustainable cities and communities of the future?

Then why not make a difference and enter our Extraordinary Engineering Challenge for students aged between 7 and 16 years old and become one of our amazing "Extraordineers". (and win some cool tech in the process!!)

Its simple to enter. All you need is your imagination and a drawing device (paper or electronic) and you're ready to begin designing. Then think about a problem you want to solve, big or small and what could be built by engineers to make this happen now or in the future (because that's what engineers do!!).

Here are a few ideas to get you started:

- A shopping robot for the elderly
- Water powered cars
- Space farms
- Plastic collecting robots
- Water harvesting systems
- Recycled plastic trainers
- Dirty to clean water straws
- Smart Beehives

If you are feeling adventurous then why not build a 3D model of your design? You could even record a video? Make sure you give a description of your design and highlight all the cool parts and unique features

We have 2 categories to enter for age groups 7 to 11 and 12 to 16 years old, so remember to put your age on your design and make sure you get permission from a parent or guardian to enter.

The winners of each category will have their designs published on our website and will receive a cool tech bundle worth over £700 which includes a Piper computer kit (Pi-top computer kit for 12-16), a Sphero Bolt robot, Mekamon Berserker robot, and a Raspberry Pi starter kit.

When you are ready to submit your design;

1. Login to DesignSpark or create an account if you are a new user and log in.
2. In this article, tick that you agree to the terms and conditions of the competition then press submit. This will add you to the list of contestants.
3. Click on the blue "Contribute +" tab located at the top right of the DesignSpark website. Then select "Add an article".
4. A new article form will appear.

Content Title - Title your project - "Extraordinary Engineering Competition Entry"

Expert - Give a brief description of what your entry is in 250 words or less.

Attachments - You can add supporting attachments here, but your main entry will be in the next field ("Body")

Parent - In the drop-down box - select "Competitions"

Body - This is where you will make your entry. Here you can add text, upload images into the page and you can also embed video links from sites like YouTube.

When finished click "Save" at the bottom. You can then still amend your entry, but when you are happy that your entry is complete, click on "Publish". Your entry will then be sent to our team. (Note - We will only publish the winning entries).

Good Luck!