Get Involved Guide

STEPS Engineers Week
2 - 8 March 2019
ENGINEERS WEEK

Engineers Week is a week-long festival of nationwide events celebrating the world of Engineering in Ireland. From spaceships to ice skates, bubbles in chocolate bars, to life saving cancer treatment - Engineering touches every part of our lives. However, not enough young people especially young girls - think it’s a world for them. As a result, the industry is struggling to recruit future talent. What’s more, young people are missing out on the chance to make a positive difference to both their futures, that of the planet and everything that calls it home.

HELP RAISE THE PROFILE OF ENGINEERING IN IRELAND, BE PART OF ENGINEERS WEEK AND ORGANISE AN EVENT.

Register your event at engineersweek.ie
TABLE OF CONTENTS

Event Ideas for Everyone
Event Ideas for Companies and Organisations
Event Ideas for Primary Schools
Event Idea for Secondary Schools
Event Ideas for Libraries
Engineering Challenge
Top Tips
EVENT IDEAS FOR EVERYONE

ENGINEERING DAY
Sponsor an Irish primary school class with an Engineering Day in a Box. Just €100 can provide an Engineers Week activity from The Curiosity Box – www.engineersweek.ie

ENGINEER AN ACTIVITY
Organise an event. Visit a school. Raise the profile of Engineering in your local community. Visit engineersweek.ie for resources and inspiration.

SHARE YOUR STORY
Why did you become an Engineer? How has Engineering influenced your life? Share your story on Social Media #EngWeek19 @EngineersIreland
Event Ideas for Companies and Organisations

Previously during Engineers Week the team at Intel went on a nationwide Engineering Tour! Visiting classrooms around the country. In addition, Intel profiled their Engineers through an online Social Media campaign “I Grew up to be an Engineer” posting pictures of their Engineers holding an image of their younger self.

School Visits
Have your team of Engineers carry out Engineering workshops in local schools. Get in touch with local schools and co-ordinate the visit together. Schools are always very eager to welcome in Industry.

Industry Insight
Invite students to your facility for an organised site tour.

Promote Engineers Week
Be proactive in your promotion of Engineers Week.

Engineers Week Lecture
Organise a networking event. Facilitate discussions that focus on increasing the talent pipeline, call on your colleagues to engage in Engineering Education. Pledging to organise events and raise the profile of Engineering in Ireland.

Engineers Week Wall display:
Showcase Irish Engineering projects, profile the companies Engineers, display photos from Engineers Week events! Engineers Week posters and logos can be downloaded on enginerweek.ie

Engineer a Movie
Show a screening of Dream Big: Engineering Our World.
EVENT IDEAS FOR PRIMARY SCHOOLS

1. Engineer a Movie
   Show a STEM Film!
   Stream Dream Big: Engineering Our World

2. Engineer an Activity
   Bring Engineering to life with an Engineering activity! Visit engineersweek.ie for resources

3. Engineering Day
   Purchase a Curiosity Box for your class of 30. Lesson Plans and all materials included

4. Engineering Corner:
   Create an Engineering Corner where boys and girls can develop their design process skills through play and challenges

Register your event at engineersweek.ie
5. Showcase Engineering
Showcase interesting engineering projects from your local community

6. Engineering Display
Make an Engineers Week noticeboard

7. Engineers Week Classroom Pack
Download the classroom pack with lots of fun activities and challenges

Engineering Education plays an integral role in Castleknock Educate Together National School. Incorporating engineering skills into the curriculum. The school actively invite engineers to speak, school wide engineering challenges occur regularly, and their newsletter has been updated with a monthly STEM Family challenge.
Event Ideas for Secondary Schools

1. Engineer Role Models
   Link with Industry and invite Engineers to come and execute an Engineering Workshop

2. Engineer Your Future
   Invite local Engineers to host an Engineering Careers Talk. Local Engineers are tangible role models for young adults

3. Women in Engineering
   Showcasing engineering as an exciting opportunity for boys and girls

4. Engineer an Activity
   Bring Engineering to life with an Engineering activity! Visit engineersweek.ie for resources

5. Engineering Display
   Make an Engineers Week noticeboard.

Register your event at engineersweek.ie
6. Irish Engineering
Showcase interesting engineering projects from your local community

7. Staff Training
STEM training session emphasising the importance and encouraging staff to actively incorporate critical thinking, problem solving and exploration into learning and activities. Ensuring staff are enthusiastic about the great opportunities Engineering provides as a diverse career choice

8. Engineer a Movie
Show a STEM Film!
Stream Dream Big: Engineering Our World – www.engineersweek.ie

St. Mary’s Derry
“Schools should get involved in Engineers Week as it’s a chance for them to focus on careers where there are real opportunities for students. Engineers Week is also FUN for students and staff!”

St. Mary’s Derry run several events: Engineering Careers Fairs, Engineering Workshops, Industrial Visits, Work Experience and Challenge Competitions
EVENT IDEAS FOR LIBRARIES

Engineer a Movie
Show a screening of Dream Big: Engineering Our World

Engineer Role Models
Invite Engineers in your area to come in and host a workshop, discuss their experience or read a story: reading list available on engineerweek.ie

Engineer an Activity
Bring Engineering to life with a STEM activity – activity packs available on engineersweek.ie

Engineering Display
Set up an Engineering themed information table display

Engineer Your Future
Invite Industry, schools and the public and host a STEM careers guidance event, or a science quiz

St. Patrick, The Patron Saint of Engineers
Use recycled cardboard to build an Irish Bridge

STEM Book Display
Approved Engineers Week reading list – engineersweek.ie

Engineering colouring in challenge display

MARSH’S 10 STATION CHALLENGE
Marsh’s Library ran a timed engineering competition. Students were divided into teams to solve problems in each station. Running 12 sessions over Engineers Week and invited primary schools throughout Dublin to take part.

GEODESIGN
New Ross Library welcomed Scoil Naomh Aine NS to take part in their GeoDesign dome challenge: students designed and constructed a dome out of newspaper! #EngWeek19
ENGINEERING CHALLENGE

St. Patricks Recycled Cardboard Chair Challenge
St. Patrick is the Patron Saint of Ireland and Engineers! Challenge your students and teach them about Engineering principles of design, collaboration, and problem solving through this Cardboard Chair Challenge.

Primary and Secondary School

CARDBOARD CHAIR

The brief
Construct a chair that you can sit on using only cardboard. No glue, tape or other fixing materials allowed.

The method
1. Write down or sketch some ideas as to how you will construct the chair.
2. When you are planning, think about using cones, interlocking sheets, spirals, tubes – or even using strips of card like sewing thread.
3. Use the materials to create a chair made from cardboard.
4. If your first design doesn’t work, evaluate what went wrong and try again.

Top tip
Think about structure.

Materials
Cardboard
Cutting equipment (with adult supervision)
Rulers
Pencils

Examples of different structures:
TOP TIPS FOR YOUR ENGINEERS WEEK EVENT

MAKE YOUR EVENT FUN!
• Give your event a catchy name
• Run a small competition
• Take photos

Register your event by the 31st of January:
#1 be in with a chance of receiving an Engineers Week Activity Book
#2 be part of the Nationwide campaign communicated by Engineers Ireland (regional press release, event calendar, website display etc)

Download all the resources you need for a successful event on Engineersweek.ie
• Activity Templates
• Evaluation Forms
• PR Tool Kit
• Case Study Template
• Logo’s and Infographics
• Engineers Week Certificate of participation

Get active on Social Media – join in on the fun and let’s get Engineers Week trending #EngWeek19

Get active on Social | Share Your Story
Help shape the future of Ireland by sharing your story #EngWeek19

Social Media Templates can be downloaded on engineersweek.ie or simply make your own on powerpoint!

Why do you love engineering?
What encouraged you to become an engineer?
What interesting projects have you worked on?