STEM resources and programmes
from IET Education

2021–2022
Science, technology, engineering and maths for a new generation

theiet.org/education
@IETeducation
Ready to inspire the next generation of engineers?

Discover which IET Education programme is right for you in our resources table – by age group

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**RESOURCES**

- The Big Bang
- Scouts
- Engineering in Motion
- National Saturday Club
- The Micro:bit Educational Foundation
- Digital Poverty Alliance
- Fun Kids Radio
- Kids Invent Stuff
- Greenpower
- EDT and Industrial Cadets
- CREST
- Teaching support and other STEM providers
- Funding for engineering projects and activities
- STEM campaigns

**Academic Partners**

**IET Diamond Jubilee Scholarships**

**IET Engineering Horizons Bursary for Students and Apprentices**

**IET Power Academy Scholarships**

**Arkwright Engineering Scholarships**

**IET On Campus**

**Sign up to our monthly IET Education Bulletin**

[theiet.org/education-bulletin]
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Inspiring the next generation of engineers and technologists

The IET has been inspiring young people from all walks of life for over 150 years, helping them access the amazing career opportunities available to them in engineering and technology.

As engineering and technology advances at a rapid rate and changes the world around us, it has never been more important to inspire young people into STEM (science, technology, engineering and maths).

The IET, along with its partner organisations, provides support to both teachers and students, helping to develop skills which are valuable not just in the engineering sector, but across the global economy.

We offer a wide range of free curriculum-linked resources, initiatives and programmes for schools/teachers, community group leaders and parents who are teaching STEM to young people from the age of four through to 19.

**Resources include:**
- careers information
- grant funding
- support for disadvantaged pupils
- scholarships and training to support the delivery of STEM activities
- initiatives within and outside of the classroom
- curriculum-linked activities
Educating in a physical and virtual world

Although learning has returned to the classroom, we need to be flexible to ensure learning continues no matter what.

The IET remains committed to providing support and opportunities following the unprecedented times we’ve experienced over the last year, and continue to provide all of our education offerings to schools, teachers and parents either online, or safely face-to-face.

We hope the delivery of our STEM competitions such as Faraday Challenge Days and IET FIRST® LEGO® League will return to normal in the forthcoming academic year, but whatever the situation, and guided by our IET Education Advisory Group, we will once again adapt our programmes to ensure learning continues.

If you are inspired by the programmes and resources in this booklet, please refer to the website links on each page to ensure you access the most up-to-date and relevant information as we continue to adjust our education offering and accommodate the flexible way of teaching.

David Lakin
IET Head of Education and Safeguarding

Key

Look out for our symbols on each programme page:

This programme has an associated cost

IET Education Officers and Ambassadors are on hand to help (more info on pages 30-31)

Awards and accreditation

EDT and Industrial Cadets (page 50)
CREST (page 51)

Gatsby Benchmark Government career strategy (page 54)
The IET and disadvantaged pupils

To be eligible you need to
1. have more than 25% Free School Meals in your school
2. be one of the 12 Opportunity Areas highlighted by the government
   - West Somerset
   - Norwich
   - Blackpool
   - North Yorkshire coast
   - Derby
   - Oldham
   - Bradford
   - Doncaster
   - Fenland and East Cambridgeshire
   - Hastings
   - Ipswich
   - Stoke-on-Trent

We are proud to be working with sponsors, supporters and donors who enable teams from disadvantaged backgrounds to participate in the IET Faraday Challenge Day and IET FIRST® LEGO® League programmes.

At the IET we believe that every child, regardless of their background, deserves the opportunity to participate in our programmes. We are committed to reducing inequality and closing the attainment gap between disadvantaged pupils and their peers across the country by breaking down the barriers to social mobility. We want to see more disadvantaged young people participating in our programmes, attending our finals, being inspired and progressing through to the most rewarding careers in STEM.

If you think that your school or group might be eligible, please email us to find out more:  ieteducation@theiet.org

"On the tube back home, they were all discussing what they would do differently and how they would continue next year if they were to do it again. As a result, FIRST® LEGO® League is continuing as an after-school club and we are hoping to develop our current work to share with the whole school and parents during Science Week."

"Taking part in the competition gave the children a chance to mix with peers they wouldn't normally spend time with and promoted team work and problem solving within a unique setting - at school and as part of the competition day."

Secondary school teacher
“We had a fantastic first year and are excited for year 2 now we know what to do! We won a trophy for best project which was totally unexpected. We’ve also organised a LEGO® Friendly between local schools that entered the main competition so that we can keep our skill set ticking over for the year.”

School teacher

Our IET Faraday programme is completely free to all schools. Schools that meet the criteria on page six will be prioritised on application.

Please apply on our website.

theiet.org/faraday

We’re sure you are aware that this funding is solely to widen the opportunity to children experiencing hardship and to broaden opportunities. We trust that you as teachers will use this opportunity to reach the children on Pupil Premium, children experiencing hardship, or who may face, or have faced challenges or obstacles in their lives.
IET Education: Primary resources

Certificates
Recognise your students’ achievements with our STEM certificates.

You can download them from our website education.theiet.org/primary/certificates

Engage students with our inspirational and exciting activities.

Our education programme introduces young people to the sheer excitement of science, technology, engineering and maths.

Our primary resources are free and all available through our website.

Teaching resources
Our teaching resources will enhance your teaching and bring students’ learning to life. The resources are designed to support the delivery of key topics within design and technology, maths and science. They provide practical activity ideas that could be used as one-off activities or linked with other areas of the curriculum and are all fully editable so you can tailor them to your students’ or school’s needs.

Join in and work through the activities on offer to spark your pupils’ curiosity.

theiet.org/primary

Outstanding in Maths Award

Outstanding in Science Award

Signed by

Date

Presented to

theiet.org/primary

Primary
Primary themed resource collections

We have grouped some of our most popular STEM resources for primary teaching into themed collections, to make it easier for you to teach a whole topic or just pick your favourites.

From seasonal resources to activities linked with national days of interest, we’re sure you’ll find something here to engage your students at any time of the year.

New themes will continue to be added on a regular basis, so do keep checking back to see what new content we have to help your classroom teaching.

Primary: theiet.org/themed-primary

STEM posters
Our visual aids bring engineering to life in your classroom or home learning space, with posters covering a range of topics.

With hard copies and PDF downloads available, there’s something for everyone!

education.theiet.org/primary/posters

Follow us online:
IETeducation  

IET Education: DIY Faraday Challenge Days

Download our free guidelines and electronic resources that will take you through a classroom-based engineering challenge day, with an introductory presentation, handouts, video clips, printable Faraday currency and student certificates.

theiet.org/primary

These resources are free to download and most of the practical materials you’ll need should be available within your school.

Why not invite our Education Officers and Ambassadors to give you a hand on the day and bring real-life engineering experience into the classroom?

"Fantastic resources which meant the day was easy to run. Great that the kids had an expert on live link and those who used it found that both useful and exciting. Over half the students would now be interested in engineering."

"I’ve been so impressed with how well everything was organised, so easy as a teacher. Thanks so much!"

Follow us online:
IETeducation  

Find all our primary resources online at theiet.org/primary
Our Faraday Challenge Days programme has now been extended to include a Virtual Faraday Challenge to give you more ways to get involved.

The Virtual Faraday Challenge brings together STEM subjects (science, technology, engineering and maths) in an engaging way and encourages the development of young people’s problem solving and communication skills in line with our annual Faraday Challenge Days programme.

Our Virtual Faraday Challenge is open for anyone between 7-15 years, young people can do this at home, in school, individually or as a group or family.
The IET is the operational partner for FIRST® LEGO® League Discover in the UK and Ireland - an exciting STEM programme for 4-6 year olds.

FIRST® LEGO® League Discover is a playful introductory STEM programme which happens in the classroom. Children work in teams of four to explore a real-world theme using an exclusive LEGO® Education Discover model. Using this as inspiration, they then design their own models using LEGO® DUPLO elements to solve meaningful problems.

Children also have a set of Six Bricks that are used for playful starter activities to practice memory, movement, creativity and more! The programme finishes with a celebration event to recognise the children’s achievements.

*Class Pack: £55-£105 (+VAT) for Discover Sets, Discover More Sets and supporting materials. LEGO® STEAM Parks are required in addition and are not included. Top-up packs: £6-£10 (+VAT) for additional classes.
As they work, the children develop valuable habits of learning, such as persisting with tasks and applying previous knowledge to new situations.

Throughout their experience, teams operate under the FIRST® LEGO® League Core Values; celebrating discovery and teamwork, all while having fun.

More details can be found on the FIRST® LEGO® League Discover website: theiet.org/discover

“I loved the Six Bricks challenges – I thought it gave a great understanding and insight into the children’s ability to listen to and follow instructions, solve some problems, communicate with one another etc. I also enjoyed the flexibility and freedom the children had to express and share their ideas and opinions.”

Primary class teacher
"We have found FIRST® LEGO® League Explore to be a wonderful experience. The children have enjoyed the preparation, subject matter, building and design so much - it has been so good for them on so many levels. The festival was such a super day out for the children (and adults!); it really tops the whole project off!"

FIRST® LEGO® League Explore Coach

FIRST® LEGO® League Explore is delivered by the IET as the operational partner in the UK and Ireland.

Children work in teams to research a specified theme relevant to the world around them, displaying their ideas on a Show Me poster. They also build a LEGO® model and program it to move using LEGO® Education WeDo 2.0 or SPIKE™ Essential. Teams then attend an IET regional festival or an in-school Class Pack event.

*£25 (+VAT) for a team of up to six members, that will go to a regional festival. Includes 1 x Explore Set, 1 x Team Meeting Guide and 6 x Engineering Notebooks.

**£70-£180 (+VAT) for Class Pack Registration, dependent on class size. This includes Explore Sets and supporting materials. Top Up packs: £11-£29 (+VAT) for additional classes.
"As a FIRST® LEGO® League tournament host, I have found the introduction of FIRST® LEGO® League Explore into our schools extremely beneficial in terms of embedding the necessary skills earlier in the key stages. Not only does it promote the skills needed to build and program, it encourages the essential skills of independent learning, critical thinking and teamwork. FIRST® LEGO® League Explore provides a safe environment to explore these skills without fear of failure or the pressure of attaining a grade/result."

Fran Ward
FIRST® LEGO® League Explore Host

**FIRST® LEGO® League Explore** rapidly develops teamwork, design, programming and communication skills, but most importantly it is great fun. It makes the children feel proud of what they have achieved - encouraging them to continue engaging with STEM.

**Working in teams of up to six, FIRST® LEGO® League Explore can be delivered in two ways:**

- **Regionally:** as either curricular or extra-curricular. Teams work towards attending a regional festival along with other teams to share their accomplishments.
- **Class Pack:** within the curriculum. Class Pack engages a whole class working in multiple teams, with an in-school festival to celebrate their achievements.

More details can be found on the FIRST® LEGO® League Explore website:

[theiet.org/explore](http://theiet.org/explore)
FIRST® LEGO® League Challenge

A global robotics-based life skills competition, run by the IET as the operational partner in the UK and Ireland.

Competing teams engage with a real-world issue, develop skills that are crucial for the workplace, and work with STEM professionals in a way that is both inspiring and fun.

What is unique about FIRST® LEGO® League is that teams must demonstrate Core Values in everything they do. These are about inclusion, teamwork and fun!

FIRST® LEGO® League Challenge can be delivered in two ways:

- **Regionally**: teams work towards competing at a regional tournament, with the opportunity to qualify for national or international finals.

- **Class Pack**: within the curriculum, engages a whole class, working towards an in-school event.

“...there are no words that can express my appreciation for what this programme has done for the children involved. It is for me without doubt of huge value to UK and Irish education. I often tell the students that there are days that stay with you as long as you live. IET FIRST® LEGO® League keeps supplying our team with those, so thank you for that.”

Neil Corrigan, Team Coach

*Team Event Registration: £150 (+VAT) for Challenge Set, supporting materials and registration to a regional tournament. LEGO® MINDSTORMS® or SPIKE™ Prime set and device (laptop/tablet) are required in addition and are not included.

Class Pack: £265 (+VAT) for 2 x Challenge Sets, supporting materials, medals and trophy. LEGO® MINDSTORMS® or SPIKE™ Prime sets and devices (laptops/tablets) are required in addition and are not included.

Top Up pack: £70 (+VAT) for additional classes. Class Pack team regional event entry: £37.50 (+VAT)
Teams consist of up to 10 young people (aged 9-16 years) and an adult coach. Once registered they receive the challenge information and a bespoke set of LEGO® missions to build.

They design, construct and program a robot using a LEGO® MINDSTORMS® or SPIKE™ Prime kit and create an innovative solution to a real-world problem which they present to the judges at the tournament.

The team work together on the different challenges, seeking advice from experts in their community and preparing to give their best performance at their event.

There are four parts to the challenge:

1. **Robot Game:** teams build and program an autonomous robot to undertake a series of tasks around a themed playing field.
2. **Robot Design:** teams are judged on their robot design, programming and strategy.
3. **Innovation Project:** teams research, create and present a solution to a real-world problem linked to the annual theme.
4. **Core Values:** teams are judged on how they demonstrate the FIRST® LEGO® League Core Values which include teamwork, impact and innovation.

More details can be found on the FIRST® LEGO® League Challenge website.

[theiet.org/challenge](http://theiet.org/challenge)
Encourage your students to develop skills for their futures - enter your school into one of our exciting Faraday Challenge Days.

The annual IET Faraday Challenge is an engineering-based competition for schools. Six teams of six students, aged 12-13 years, compete against one another to see who can design, create and promote the best solution to a given challenge. All challenges are genuine, real-life engineering problems.

They draw upon and reinforce learning from science, maths and design and technology lessons. Students need to demonstrate:

- creativity and innovation
- the ability to work as a team
- the capability to project manage and take on team roles
- presentation skills... and more!

Recent set-ups of real-life challenges have included assisting Network Rail to sustainably manage the increasing numbers of passengers using their network, working with Airbus on how they can transport aid or help people in times of need, assisting the engineering mission of the James Webb Space Telescope and designing a new attraction for Thorpe Park Resort.

The winners from each event receive prizes for themselves and their schools. The top teams across the UK win an all-expenses-paid trip to the National Final to compete for a cash prize for their school.

Visit our website for more information on the options available and how to apply to take part in a Faraday Challenge Day.

theiet.org/faraday
Run your very own Challenge Day in your own time and on a theme that suits your students.

Available for schools, these packages offer guidelines and electronic resources that take you through the day, with an introductory presentation, handouts, video clips, printable Faraday currency and student certificates.

These resources are free to download and most of the practical materials you'll need are found in typical science or design and technology departments.

Why not invite our Education Officers and Ambassadors to give you a hand on the day and bring real-life engineering experience into the classroom?

"Students practically learned in a pressurised, realistic situation, how to create and build different prototypes and improve their knowledge and understanding of scientific concepts. They were inspired to compete with each other and teams learned about what engineers really do!"

Secondary science teacher

"I really liked this challenge as I love to be creative, I also understand more about engineering and want to look in to the careers available."

13 year old female participant
Engage students with our secondary teaching activities and videos.

Take the hassle out of your lesson planning with our free curriculum-linked resources and activities.

We can do more to nurture students’ interest and achievement in STEM by showing them the exciting, real-life applications of the subjects. If we want students to be fully equipped for their futures, we need to give them a grounding in these subjects and make them aware of the career choices in these fields.

Our resources introduce students to real-life, innovative examples of engineering and technology from around the world.

Types of resources

We provide the following resources, free-of-charge:

– classroom activities to drop into lessons or for home learning/schooling
– handouts
– classroom presentations
– videos

Each set of resources is brought to life in a modern engineering context by including:

– short films
– case studies and engineer profiles which can be used to inspire project work and help with careers guidance

Themed resource collections

We have also grouped some of our most popular STEM resources for secondary teaching into themed areas, to make it easier for you to teach a whole topic or just pick your favourites.

Find all our secondary resources online at
theiet.org/secondary

Follow us online:
IETeducation  

theiet.org/themed-secondary
STEM posters

Use visual aids to make STEM topics more memorable.

Our poster pack includes reference posters on electricity and electronics and topical posters with examples of some of the most innovative engineering around today.

The exact content of these packs will alter over time as new posters become available.

Find all our secondary STEM posters online at education.theiet.org/secondary/posters

IET Education around the world

The IET is a global organisation and the Education department is no different!

We want to support you wherever you are in the world in bringing STEM to your students.

On this page, you will find information on the programmes that we run outside the UK that may be relevant to you, as well as teaching resources and partner activities to help you make the most of the IET Education offering.

education.theiet.org/iet-education-around-the-world

The Institution of Engineering and Technology (IET) is working to engineer a better world. We inspire, inform and influence the global engineering community, supporting technology innovation to meet the needs of society.

The Institution of Engineering and Technology is registered as a Charity in England and Wales (No. 211014) and Scotland (No. SC038698). Michael Faraday House, Six Hills Way, Stevenage, Hertfordshire, SG1 2AY, United Kingdom.

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Careers information and scholarships

For students and apprentices who want to pursue careers in engineering and technology, we offer a number of scholarships and bursaries to support them with their education and training. We also accredit degrees and apprenticeship schemes to ensure they cover the content needed to help them get a job.

For those who are still deciding what they want to do, we provide careers guidance materials. These illustrate the huge range of possibilities open to young people in the sector and the entry routes available.

For more information, please visit theiet.org/engineering-careers
Post-16 careers information

If you're looking to advise sixth form or further education students - we've put together a collection of careers materials especially for them.

The materials include:
- route maps from Tomorrow's Engineers
- booklets about vocational and university engineering courses
- a booklet about 12 key areas of engineering
- IET scholarship and bursary flyers

Careers information for secondary students

Tomorrow's Engineers, in collaboration with the IET and other engineering institutions, produces a helpful range of careers information and resources for teachers and young people interested in engineering.

These include a route map (available in formats appropriate for each of the UK nations) illustrating the various academic and vocational routes into an engineering career.

tomorrowsengineers.org.uk

[Image: Career Route Map for Engineering in Wales]

[Image: theiet.org/engineering-careers]

tomorrowsengineers.org.uk

Gatsby Benchmark ✔

1 2 3 4 5 6 7 8
Choosing the right university course

Help your students work out which engineering course is right for them.

The routes to engineering section of our website gives up-to-date advice on choosing a course and explains how we support students at university and in their early career.

Accredited courses

We run an accreditation programme, which monitors and certifies courses, checking and approving:
- facilities and staffing
- relevance to employers
- students’ opinions about the course

Our list of currently accredited degrees includes mainly BEng (Hons), MEng and MSc qualifications covering electrical and electronic engineering, computing, mechanical and manufacturing engineering and more. Individual programmes include a wide range of specialisations, including nanotechnology, communications and renewable energy. Some of these courses are part of a Degree Apprenticeship offered by employers. See Apprenticeships on page 25.

Students about to start an IET accredited course are eligible to apply for an IET Scholarship or Bursary (see pages 27 and 28).

Go online today and find out how to point your students in the right direction.

theiet.org/career/routes-to-engineering

Search the list of IET accredited degrees and apprenticeship schemes at

theiet.org/accreditation
Choosing the right apprenticeship

Help your students work out which apprenticeship is right for them.

The apprentice section of our website is packed with advice on choosing the right apprenticeship, including details of IET schemes.

IET accredited apprenticeship schemes

To gain IET accreditation, an apprenticeship provider needs to have demonstrated that their education and training meets certain quality standards and that they are committed to helping apprentices progress and develop. They must also provide apprentices with the skills they need as a basis for professional registration.

Search the list of our Apprenticeship Schemes and Professional Development Schemes at theiet.org/accreditation

Tip: Many employers offering IET Accredited Professional Development Schemes offer Degree Apprenticeships. Contact them for information about the application process.

Explore what's available and help your students make the right choices.

Students and apprentices on an IET accredited apprenticeship scheme or degree apprenticeship are eligible to apply for an IET Engineering Horizons Bursary (see page 28).

theiet.org/career/routes-to-engineering
Academic Partners

IET Academic Partners are university departments that understand the value of association with the IET and want to enhance the student experience.

Studying at an IET Academic Partner university means students' IET membership fees will be partially or fully funded, and they benefit from an IET accredited course – an internationally respected benchmark awarded to high quality programmes.

Academic Partners work closely with us to make sure students get opportunities to join our On Campus groups, hear from industry speakers, and use our study and professional development resources.

Find out more partnerships@theiet.org

Arkwright Engineering Scholarships

The Arkwright Engineering Scholarships programme is run by The Smallpeice Trust and is the most prestigious scholarship scheme of its type in the UK.

Funded by industry, academia, professional institutions (including the IET) and private donations, more than 400 Arkwright Engineering Scholarships are awarded each year. Each scholarship provides two years of enrichment for the student and a financial award for the school each year.

Who can apply?

Students who are currently in the year in which they are taking their GCSE exams (or equivalent) and will go on to study an A-level (or equivalent) STEM subject at a UK school partnered with Arkwright may apply for a scholarship.

arkwright.org.uk
IET Diamond Jubilee Scholarships

These scholarships are for high-achieving students with good A-levels and a passion for engineering.

Who’s it for?
Students who are about to start an IET accredited engineering or technology undergraduate degree. Successful recipients will be chosen based on the quality of their application, their achievements to date, and their commitment to engineering.

What’s on offer?
At least £1,000 per year for up to three years for Bachelor degrees and four years for Master degrees. Successful recipients also receive free student membership for the duration of their course and opportunities to have summer placements, visits and mentoring with engineering companies.

What else do I need to know?
You should have achieved at least ABB at A-level.
- Please see the website for equivalent Scottish and International Baccalaureate qualifications
- UK residents only
- You don’t need to be a member of the IET
- Successful recipients will have opportunities to promote STEM and engineering

When’s the deadline?
- Thursday, 2 September 2021*

Payments
Successful candidates will receive their first payment in January 2022.

*Please note the application system will close promptly at 5pm BST on 2 September.
These bursaries are for those who have not necessarily followed the A-level route, have faced financial challenges or personal obstacles and have a passion for engineering.

Who’s it for?
Students could be about to start their undergraduate degree, or already enrolled on it in any year, but their course must be IET accredited. They can be a part-time or full-time or a mature student. We especially welcome applicants joining university with a HNC, HND, Access to Higher Education Diplomas or similar qualifications, or those who have just completed a Foundation Year at university. Apprentices about to join or already on an IET accredited scheme are eligible to apply too.

What’s on offer?
£1,000 per year for up to three years for Bachelor degrees and four years for Master’s degrees or apprenticeships, plus free student or apprentice membership.

What else do I need to know?
– UK residents only
– You don’t need to be a member of the IET
– Successful recipients will have opportunities to promote STEM and engineering

When’s the deadline?
– Thursday, 2 September 2021*

Payments
Successful candidates will receive their first payment in January 2022.

Apply today
theiet.org/horizons

*Please note the application system will close promptly at 5pm BST on 2 September.
IET Power Academy Scholarships

The Power Academy partnership between companies and universities offers a host of benefits to help students enhance and progress their career in engineering.

We have a number of scholarships each year for students to get an annual bursary, mentoring from leading industry partners, paid summer placements and the opportunity of a career with their sponsoring company after graduation.

For more information, visit theiet.org/poweracademy

IET On Campus

This initiative allows students to set up their own engineering societies with support from the IET. They gain fantastic opportunities that they might not otherwise have had access to.

Groups promote engineering and the IET, as well as develop soft skills that students do not typically gain through their studies.

Benefits for students
- develop skills necessary for the workplace
- network with professional engineers
- explore career opportunities
- get funding for events and activities
- discover volunteering opportunities

Find out more
theiet.org/oncampus
oncampus@theiet.org
## IET Education Officers and Ambassadors

Education Officers (EOs) and Education Ambassadors (EAs) are IET members who volunteer to help introduce young people to the exciting world of STEM and raise awareness about engineering careers.

Education Officers and Ambassadors are typically registered STEM Ambassadors and can support a variety of opportunities for young people to learn about engineering.

They can:
- support after-school clubs, competitions and other school events
- give careers talks and provide industry insights to all ages
- represent the IET at careers and science fairs
- act as advocates for applications to the Engineering Education Grant Scheme

For an introduction to your local volunteer contact us at ieteducation@theiet.org
Meet our volunteers

There is generally one Education Officer or Ambassador in each UK county.

You are now able to ‘meet’ our wonderful Education Volunteer team, find your nearest IET engineer, as well as contact them on our interactive webpage:

education.theiet.org/support/meet-our-engineering-education-volunteers

Our volunteers are continually striving to inspire the next generation of engineers.

You can watch videos, engage with social media posts, take part in activities, utilise handouts and even read stories and hang posters all designed and created by them on our volunteer resource webpage.

education.theiet.org/support/education-a-z/volunteer-resources
If you are interested in learning how you could get involved with these programmes, then please contact us at ieteducation@theiet.org to start your rewarding journey today.

STEM Ambassadors

Bringing engineers into the classroom.

IET members registered as STEM Ambassadors are available, alongside our IET Education Volunteer team, to support school activities and bring real-life engineering experience into the classroom.

STEM Ambassadors can support activity days, after-school clubs, careers events and even lessons.

The national STEM Ambassador programme, delivered by one of our associates STEM Learning, enables teachers to bring trained and checked professionals into the classroom to support teaching and inspire students.

To find out more and request a STEM Ambassador visit stem.org.uk
If you are understandably overwhelmed by the wealth of information available and unsure where to start to teach or support budding engineers into STEM learning, have a look at our Education A-Z webpage:

education.theiet.org/support/education-a-z

All of our resources can be easily found in one place, from initial interest in engineering and STEM from four year olds, to providing a complete overview of information for students and early career engineers.

Provided in three easy to understand sections:
1. Education resources
2. Getting into engineering
3. Engineering careers guidance

We have also included information about our education campaigns and volunteer created video resources for you to support your teaching.
Look at me now

For children, toys and imagination represent a world of possibilities and invention. For engineers and scientists, the possibilities and invention never end. They are proof that our toys and dreams today impact our innovations tomorrow.

The child who loved LEGO® now designs buildings. The child with the telescope is now an astronaut and the child who dreamed of being a magician is now an electronics engineer, changing the world through technology.

#IETLookAtMeNow explores which toys and dreams our engineers had as children and how they’ve influenced what they’re doing now – sharing these great stories from around the world.

Our stories – our engineers reveal the dreams and toys of their childhood, which set them on the path to their careers today and discuss how you could get there too.

Children’s activities - activities, games and resources to have a go at with children! Get creative, invent and consider engineering as a possible and real future career.

Take a look at theiet.org/look-at-me-now
Looking for fun and engaging STEM experiments to do with children?

We’re working with STEM Ambassadors, IET Education Officers and Ambassadors, teachers and parents to bring you a range of videos that you can watch at home or in school with children.

Give them a go yourselves - each video will show you how to create some fantastic STEM experiments using everyday items found in the home or simply refresh your memory on some popular lesson topics.

Take a look at education.theiet.org/video-teaching-resources
Engineer a Better World

The IET’s Engineer a Better World campaign shows parents and their children the huge variety of exciting, creative and stimulating careers in modern engineering.

Engineering and technology are improving our world and shaping our future, touching every part of our lives. From the music you listen to and the phone in your hand, to the clean water you drink and the innovations that are helping to restore our oceans, engineering and technology are at the heart of everything.

This campaign aims to show young people that they can make a difference and demonstrates just how inspiring and fantastic a career in engineering and technology can be. We’ve worked with the likes of Blue Peter and the Beano, as well as Mark Cavendish and Konnie Huq to help us spread the word that engineering and technology is for everyone.

Engineering Open House Day is also part of this campaign and is an educational and fun day out for parents and their children. Companies across the UK open their doors and give us behind-the-scenes access to the exciting world of engineering and technology.

Our annual nationwide Engineering Open House Day attracted over 4,000 children and their parents to more than 60 organisations across the UK in 2019.

Charlotte, aged 13, won our Sports of the Future competition in 2020 with her invention the ‘Electrodeck’, a skateboard that allows skaters to go faster and do more tricks without taking their feet off the board!

“I learnt you can’t live without engineers...”

Help your school to join in engineer-a-better-world.org
Santa Loves STEM

There continues to be a huge shortfall of young people taking up careers in engineering and technology and we believe one of the main barriers to this is not capturing the creative and curious minds of children from a young age.

David Lakin, IET Head of Education and Safeguarding

Our 2020 campaign reached over 680K children. How many can Santa help inspire next time?

Join us #SantaLovesSTEM theiet.org/santa

This IET campaign aims to spread some seasonal magic as well as inspire the next generation.

Inspiring the difference makers of the future in the fight against climate change.

Our 2020 #SantaLovesSTEM campaign shared the magic of Christmas and our commitment to engineer a better, more sustainable world.

Narrated by children’s television presenter, Andy Day, and featuring talent such as Richard Ridings (the voice of Daddy Pig in Peppa Pig), our festive film took viewers on Santa’s journey to make the North Pole greener.

As part of this campaign, we teamed up with our education partner, Kids Invent Stuff, to launch an invention challenge alongside our animation. Our winner was Isaac, aged 10, who sent in his design for a mega-sleigh, powered by solar panels and made from recycled items.

We want to thank all our campaign advocates who shared the video, including IET colleagues and members, education professionals and STEM organisations. We hope you’ll help us continue to spread the word about STEM during the festive season.

Watch this space and watch the 2020 video: theiet.org/santa

The IET has 1,000s of resources download our free educational activity packs and find one to suit you at theiet.org/education
Teaching support and other STEM providers

Working alongside others to engage young people with engineering and technology.

Neon

Neon brings together the UK’s best engineering experiences and the inspiring Tomorrow’s Engineers careers resources to help teachers bring STEM to life with real-world examples of engineering. Visit the site to discover what is available in your area.

neonfutures.org.uk

Association of Science Education (ASE)

The professional association for science teachers. The ASE provides a range of resources, training and networking opportunities, including their annual and regional conferences.

ase.org.uk

The Design and Technology Association

The professional association for design and technology teachers. The association provides a range of resources, training and networking opportunities.

data.org.uk

Institute of Physics (IOP)

Promoting physics and bringing physicists together for the benefit of all. The IOP provides a range of resources, funding, training and networking opportunities for physics teachers.

physics.org
iop.org
Project ENTHUSE

Project ENTHUSE is a funding partnership that allows the provision of subject-specific Continuing Professional Development (CPD) for teachers, technicians and other support staff at the National STEM Learning Centre in York and through partners in Northern Ireland (Department of Education Northern Ireland), Scotland (SSERC) and Wales (Techniquest).

stem.org.uk/project-enthuse

Institution of Mechanical Engineers (IMechE)

The IMechE is a professional engineering institution, improving the world through engineering. In addition to the collaborative work with the IET, Tomorrow’s Engineers and Teachers in Residence programme, the IMechE support Bloodhound SSC and Primary Engineer.

imeche.org

ESP

ESP is a collaboration of Scotland’s colleges and industry partners, established to increase Scotland’s capability and capacity to deliver the right skills for the energy, engineering and construction sectors to meet industry demand. ESP works to promote STEM initiatives in colleges around Scotland.

esp-scotland.ac.uk

EESW

EESW is an independent registered charity running schemes to inspire and motivate young people in Wales aged 8-19 to choose careers in STEM.

stemcymru.org.uk

Teach First

Teach First aims to end educational inequality. It finds, trains and supports new teachers to work in low income communities, developing these new teachers to become leaders in schools and to inspire children towards the future they want.

teachfirst.org.uk
Help young people discover exciting possibilities and connect to inspiring role models in STEM with the Big Bang. Young inventors and experimenters, future game-changers and lifesavers all develop and shine in The Big Bang Competition.

Big Bang Digital showcases surprising ways to connect learning to real life and meet inspiring role models, and Big Bang at School helps teachers run their own inspiring STEM days.

For more information and dates for 2022, visit thebigbang.org.uk
Inspiring generations with skills for life

The Scouts give almost half a million young people – of all genders, races and backgrounds – the skills they need for life.

Across the UK they’re helping young people speak up, play their part and find their place in the world. By helping more young people gain these skills, they’re inspiring generations, building stronger communities and contributing to a stronger society. We’re so pleased to work in partnership with Scouts to inspire more young people into a STEM career. People like Tim Peake, Helen Glover and Chief Scout, Bear Grylls all got their start in Scouts; now they’re helping others follow in their footsteps.

Sponsoring the Scouts Electronics Badge, we have helped create some fantastic new activities to help volunteers deliver the electronics badge, a badge that can be challenging to deliver. Now, through our partnership, thousands more young people are taking steps to becoming STEM ambassadors of the future.

For more information, visit scouts.org.uk/supporters/iet

*Please refer to our partner's website for costs relating to this programme
F1 in Schools™

Students use CAD/CAM software to design, manufacture and race a miniature compressed air-powered F1® car.

The cars are small, made from an F1 in Schools Model Block and raced on a track just 25 metres long. With tremendous support from industry and the endorsement of Formula 1®, F1 in Schools is a truly inspiring opportunity for young people.

F1 in Schools Primary Class

The global education project F1 in Schools is now bringing STEM learning to life in the primary school classroom.

The F1 in Schools primary class enables children to design, make and test a model car before competing at a regional final and possibly progressing to a UK National Final. It is a complete cross-curricular action learning project.

For further information please visit f1inschools.co.uk

*Please refer to our partner’s website for costs relating to this programme*
4x4 in Schools

The challenge is to design and build a remote controlled electric 4x4 vehicle that will negotiate obstacles and perform specific tasks on an emulated off-road course.

For the 2021/2022 season, 4x4 in Schools will operate as an in-school activity with a return to physical events planned later in 2021.

For more information, visit 4x4inschools.co.uk

SUBS in Schools

SUBS in Schools enables children to build a Remotely Operated Vehicle (ROV) before putting it through a series of underwater tests including a speed challenge, object retrieval and an obstacle course.

The competition is for teams of students, helping them explore scientific materials and manufacturing techniques. Underlying these activities is a core ethos of developing employability skills including communication and entrepreneurship. The challenge is supported by the IET, Royal Navy and several marine industry organisations.

For more information, visit subsinschools.co.uk
Across the UK, the National Saturday Club gives 13–16 year olds the opportunity to study subjects they love for free at their local university, college or cultural institution. In 2019/2020 there were 68 Saturday Clubs and 1,458 Club members in 52 locations across the UK.

Offering dynamic creative learning programmes in five subject areas – art and design, science and engineering, fashion and business, film and media and writing and talking – the model works to develop young people’s skills, nurture their talents and encourage their creativity.

Through a year-long programme of national events, weekly Saturday classes led by professional tutors, and Masterclasses with industry experts, science and engineering Club members are introduced to the latest thinking and technologies, encouraging them to develop practical and analytical skills and giving them the confidence to pursue future study and career opportunities in STEM.

For more information, please visit saturday-club.org

Follow us on Twitter @NatSatClub
The BBC micro:bit device is a tiny, inexpensive computer that forms a bridge between abstract concepts and tangible experiences in the classroom. The Micro:bit Educational Foundation provides a supporting free educational package for teaching computing and digital skills to children aged from 7 to 14 years.

The Micro:bit Educational Foundation works with its founding partners (the IET, the BBC, Arm, Microsoft, Nominet, the British Council and Lancaster University) to secure a global legacy for the BBC micro:bit. A million devices were donated to UK schools in 2016 and there are now 20 million children learning worldwide with 4.5 million micro:bits in 60 countries.

Get started videos and guides explain computing concepts through real-world examples and quick physical computing projects children can create in minutes.

Free curriculum-linked lessons have easy-to-download editable resources for primary and secondary aged children.

Free online code editors take children from block coding in Microsoft MakeCode through to text-based Python. The MakeCode simulator means you don't even need physical micro:bits for many lessons and activities.

micro:bit classroom is a free tool that allows you to run live coding lessons, in person or remotely.

Dozens of quick Make it: code it projects are perfect for formal or informal learning.

You can access all these resources for free and without registration at microbit.org

*Please refer to our partner’s website for costs relating to this programme
Fun Kids is a national radio station providing entertaining and informative programmes for children, available across the UK through DAB digital radio, online at funkidslive.com and through smart speakers.

The IET and Fun Kids have developed several series of short audio programmes and videos for 8 to 12 year olds called ‘Techno Mum’ which aims to explain a wide range of technology that young people see around them.

Starring Tim and his engineer mother, Techno Mum, each episode looks at different ideas and the engineering behind it - from electric cars and motion sensor games, to supermarket scanners and much more.

You can even ask for a Techno Mum smart fact through Alexa.

The audio podcasts and videos, and even a comic, can be downloaded at funkidslive.com/techno-mum
Kids Invent Stuff is the YouTube channel where 4-11 year olds have the chance to get their invention ideas built by real engineers. This gives more primary school kids the chance to engage with real engineering projects.

Kids are encouraged to submit their ideas for inventions to solve a different challenge each month. Ideas can be submitted as drawings or videos uploaded below.

The most creative inventions are showcased on their YouTube channel and each month one idea is built and tested on camera, with hilarious consequences.

Find out more at kidsinventstuff.com

Kids Invent Stuff as seen on Tomorrow’s World Live, The One Show and BBC News Online

Have you seen our feature on BBC News Online? Search for The inventors bringing kids’ crazy creations to life
The highly successful Greenpower challenge to design, build and race a single-seat electric car provides young people with a unique hands-on opportunity to engage in STEM.

The proven project uses the excitement of motorsport to inspire students from primary school through to university to excel in the STEM subjects along with business studies, computing and physics.

greenpower.co.uk
Digital Poverty Alliance

We are the voice of digital poverty.
Join the community.

The IET is proud to be a founder member of the Digital Poverty Alliance along with Digital Access for All, the Learning Foundation and Dixons Carphone.

Our vision is to live in a world which enables everyone to have an equal and sufficient opportunity to access the life-changing benefits that digital brings.

Our mission is to create a global community of organisations, active across all areas of the digital divide, collaborating and uniting under a common cause, to end digital poverty.

digitalpovertyalliance.org
EDT and Industrial Cadets

EDT is a UK wide education charity, working in collaboration with industry, educators and partners to provide opportunities for young people of all ages, offering 40,000+ experiences each year. With young people at the heart of what we do, our vision is of a society where young people across the UK have equal access to engage with STE(A)M (arts) subjects and achieve their potential in STEM careers and opportunities for further study.

Industrial Cadets is a key component of EDT’s portfolio. Industrial Cadets accredited programmes include experience days, projects and placements; providing opportunities through education to employment. These quality experiences inspire young minds, encourage attainment and bridge the gap between industry and education.

The Industrial Cadets flexible framework allows:

- **Young people** to gain a unique insight into industry and demonstrate experience and progression. Young people receive recognition at the end of their experience and graduate as an Industrial Cadet; becoming part of a national accreditation network. They can build their Industrial Cadets portfolio and explore further opportunities.

- **Educators** to enrich the curriculum, with inspiring experiences for their students that provide unique insight into courses, careers and routes to employment. Educators strengthen their CPD by working collaboratively with employers to develop and enhance their student’s skills, building their confidence and preparing them to make informed decisions about their future in STEM.

For more information, visit etrust.org.uk

*Please refer to our partner’s website for costs relating to this programme.*
CREST is a scheme that inspires young people to think and behave like scientists and engineers. CREST projects allow students to be creative with their STEM project-based work and find solutions to questions they care about.

CREST offers educators an easy-to-run framework for curriculum enhancement and is student-led, encouraging young people to take ownership of their own projects. Students who engage in CREST awards are proven to have better GCSE grades, with disadvantaged students seeing the biggest impact.

There are six CREST Award levels for ages 5-19, allowing students to progress through the scheme throughout their education. The awards are well regarded, high quality and a tangible recognition of success. CREST is easy to organise and can be run in schools, clubs, youth groups, other organisations or at home.

Sign up for your free CREST account online crestawards.org

*Please refer to our partner’s website for costs relating to this programme
Engineering Education Grant Scheme

Funding for extra-curricular engineering projects and activities.

The IET and the Institution of Mechanical Engineers (IMechE) collaborate to provide the Engineering Education Grant Scheme (EEGS).

The scheme supports projects that aim to engage young people in learning about engineering and to develop the professional skills of those involved in supporting STEM learning and careers awareness. The scheme also supports projects that improve wider engineering literacy.

Any youth-based organisation, school or individual able to develop and deliver STEM activities in the UK can apply for funding.

There are two funding rounds each year, opening in Autumn 2021 and Spring 2022.

Find further information and apply at education.theiet.org/support/funding
School Grants Scheme

The Institute of Physics (IOP), the IET and the Science and Technology Facilities Council (STFC) provide schools with up to £600 for projects, to participate in activities or to purchase materials not normally covered by school budgets.

The scheme awards funds for projects linked to teaching or promoting of physics or engineering and is open to all UK educational organisations teaching students aged 5-19. There are three opportunities to apply each year, with deadlines in February, June and November.

Further information, including guidance notes and examples of funded projects, can be found on the IOP website. iop.org/schoolgrants
You and the IET

The IET promotes the exchange of information and ideas for the advancement of science, engineering and technology worldwide.

We have over 158,000 members in 153 countries

How we can help

We provide our members with a Professional Home for Life® – a range of professional services and products that support members throughout their career.

Some of our members volunteer as Education Officers or Education Ambassadors and help support the teaching of STEM with IET Education. They are here to help you and support with access to funding, programmes and information.

Email us at ieteducation@theiet.org for contact details of your local Education Officer or Ambassador. They will be on hand to help you every step of the way.

Gatsby Benchmark

A number of our IET Education programmes meet the Gatsby Benchmark, as identified in the government’s careers strategy to define world-class career guidance within schools.

The eight Gatsby Benchmarks are

1. A stable careers programme
2. Learning from career and labour market information
3. Addressing the needs of each pupil
4. Linking curriculum learning to careers
5. Encounters with employers and employees
6. Experiences of workplaces
7. Encounters with further and higher education
8. Personal guidance
# Key dates 2021-2022

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<td>IET Diamond Jubilee Scholarships</td>
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<tr>
<td>2 September 2021</td>
<td>IET Engineering Horizons Bursary application deadline</td>
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<td>29 October 2021</td>
<td>IET Power Academy Scholarships</td>
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<td>September 2021 - June 2022</td>
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<td>IET FIRST® LEGO® League Explore Festivals</td>
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<td>June 2022</td>
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For more information and application deadlines visit: [theiet.org/education](http://theiet.org/education)

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Sign up to our monthly IET Education Bulletin to receive updates on all your areas of interest: [theiet.org/education-bulletin](http://theiet.org/education-bulletin)

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Join us:

- [IET Education](http://theiet.org)
- [FIRST LEGO League UK](http://firstlegoleague.org.uk)
- [STEM calendar 2021-2022](http://stemcalendar.org.uk)

Find out more from our IET Education department on +44 (0)1438 767373 or at ieteducation@theiet.org

For more information about the IET, visit [theiet.org](http://theiet.org)