

theiet.org/education



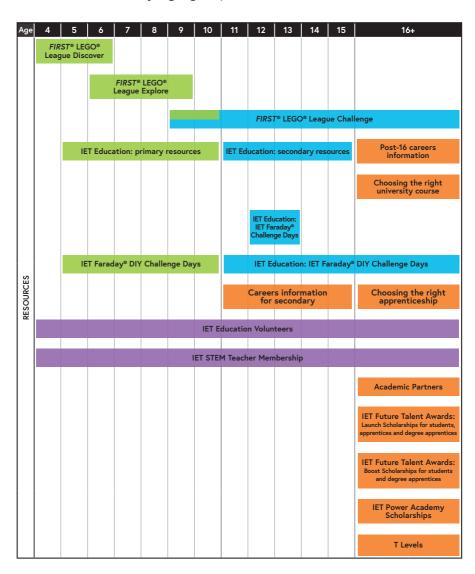




Ready to inspire the next generation of engineers?



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





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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 advance at a rapid rate and change 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 curriculumlinked resources, initiatives and programmes for schools/teachers, community group leaders and parents who are teaching STEM to young people from the age of 4 through to 19.



Resources include:

- careers information
- support for disadvantaged pupils
- scholarships and training to support the delivery of STEM activities
- initiatives within and outside of the classroom
- curriculum-linked activities

Key

Look out for our symbols on each programme page:



This programme has an associated cost



Education Volunteers are on hand to help (more info on pages 27)

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





Gatsby Benchmark ✓
1 2 3 4 5 6 7 8

The IET and disadvantaged pupils









"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."

Teacher

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.

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 FIRST® LEGO® League programmes.

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.

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

ieteducation@theiet.org

IFT Futures Fund



The IET Futures Fund raises money to support the next generation of engineers, to find solutions to our most pressing problems.

Thanks to the generosity of our supporters and partners, we have been able to offer more opportunities to children and young people, especially those who would otherwise find it hard to access STFM activities

The programmes we have been able to grow - FIRST® LEGO® League, IET Faraday® Challenge Days and the Future Talent Awards - offer vivid STEM experiences to children from the age of four and valued support to apprentices and undergraduates.

> Funding and volunteer resource is crucial to the impact that the IET's Futures Fund has on aspiring engineers.

> > To find out more about supporting the next generation of engineers through these impactful programmes contact: fundraising@theiet.org

"Because your donations are helping children believe that anything is possible"

Olha Burdo has been involved in FIRST® LEGO® League for many years; first as a supportive parent and then as a volunteer mentor. Her son Kostiantyn was an avid participant, returning for eight consecutive years (pandemic aside), before the war in Ukraine turned their family's life upside down and caused them to seek asylum in Ireland. Olha and Kostiantyn then formed their own team in Ireland, to make new friends and share their passion for the competition.

"The children came to us with no experience of engineering and have learnt so much about electronics, robotics and

programming through this competition. My son wants to join an engineering company, for example, while another boy, who'd planned to become a psychologist, has realised he can build and program and feels other options within engineering have opened up to him.

By donating to the IET Futures Fund you're influencing the future of today's students. STEM events like FIRST® LEGO® League help them to see that anything is possible - if they can dream it, they can do it."

Olha Burdo FIRST® LEGO® League mentor

Primary resources

Engage students with our inspirational and exciting activities.







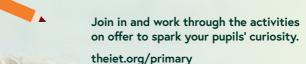


Our education programme introduces young people to the sheer excitement of STEM.

Primary resources and classroom activities include lesson plans, handouts and film clips, all free and 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.





Certificates

Recognise your students' achievements with our STEM certificates.

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





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

"Free and easy to use. Inspirational. Good range of different activities. Linked to the National Curriculum "

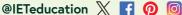
Teacher



"Fully resourced, clear lesson plans and presentations. A variety of topics covered. Fun experiments that engage children."

Teacher

Follow us online:











Zoom to the Moon

Zoom is a little alien who's got lost and ended up on Earth. He needs your help to build a spaceship to get him home.

Can your students help get Zoom home to the moon?

Students must think like an engineer to work their way through the magazine deciding on the best use of materials, fuel and communication methods for their space rocket to get Zoom back where he belongs.

Find out about a range of energising careers on the way to inspire your students and open their minds to a whole new universe of engineering jobs in Space!

theiet.org/primary-adventure-magazine





STEM posters

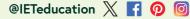
Our visual aids bring engineering to life in your classroom or home learning space, with posters covering a range of topics.

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

theiet.org/primary/ posters



Follow us online:









Days

Run your very own IET Faraday® DIY Challenge Day in your own time and on a theme that suits your students.

Download our free

theiet.org/primary



Student

or design and technology departments.

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

Why not invite our IET Education volunteers to give you a hand on the day and bring real-life engineering experience

"The challenge really tested us in many areas, leaving room for some creativity."

into the classroom?





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



guidelines and electronic resources that will take you through a classroombased engineering challenge day, with an introductory presentation, handouts, video clips, printable IET Faraday® currency and student certificates.





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













IET video resources

Looking for fun and engaging STEM experiments to do with children?

We're working with STEM Ambassadors, IET Education Volunteers, 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 theiet.org/video-resources

Undercover engineers podcast





Join us as we unleash the latest innovations in science and tech to showcase engineers that are saving our planet and helping communities across the alobe.

From shark detection technology and artificial reefs for marine wildlife to the latest real-life cyber crime, nano

materials and smartwatches saving lives, you can get thinking about what will be next.

With a new podcast every month, why not kick start your way to making a difference and help engineer a better world?

theiet.org/undercover-engineerspodcast

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.

theiet.org/around-the-world















The IET is the operational partner for FIRST® LEGO® League Discover in the UK and Ireland - an exciting STEM programme for 4 to 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.



"It has been a brilliant experience to be able to implement STEM activities in such a fun and fascinating way. It has made me more confident as a class teacher."

P1 class teacher



*Packs £50 - £187 (+VAT) for Discover Sets, Discover More Sets, supporting materials. LEGO® STEAM Parks are required in addition and are not included. Top up packs: £18 - £65 (+VAT) for additional materials.



"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



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



Build, code, research and share. A fun STEM programme for 6 to 9 year olds.







LEGO® League Explore to be a wonderful

experience. The children

have enjoyed the

preparation, subject

matter, building and



FIRST® LEGO® League Explore is delivered by the "We have found FIRST"

> 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® SPIKE™ Essential***. Teams then attend an IET regional festival or an in-school

IET as the operational partner in the UK and Ireland.





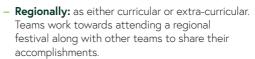
FIRST® LEGO® League Explore rapidly develops teamwork, design, programming and communication skills, but most importantly it is great fun. It makes the children feel proud of what they have achieved - encouraging them to continue engaging with STEM.

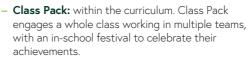
"As a FIRST" LEGO" League tournament host, I have found the introduction of FIRST" LEGO" League Explore into our schools extremely beneficial in terms of embedding the necessary skills earlier in the key stages. Not only does it promote the skills needed to build and program, it encourages the essential 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."

FIRST® LEGO® League Explore Host











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







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

"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. FIRST® LEGO® League keeps supplying our team with those, so thank you for that."

Neil Corrigan, Team Coach

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 Challenge 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.

Team Event Registration: £170 (+VAT) for Challenge Set, supporting materials and registration to a regional tournament. LEGO® SPIKE™ Prime set and device (laptop/ tablet) are required in addition and are not included.

Class Pack: £300 (+VAT) for 2 x Challenge Sets, supporting materials, medals and trophy. SPIKE™ Prime sets and devices (laptops/tablets) are required in addition and are not included. Top Up pack: £86 (+VAT) for additional classes. Class Pack team regional event entry: £40 (+VAT).







Teams consist of up to ten young people (aged 9 to 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® SPIKE^{TM*} 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.

FIRST® LEGO® League Challenge develops skills in:

- applied science
- design and technology
- programming and control
- computing
- mathematics
- research
- communication and presentation skills
- strategic thinking
- teamwork
- self-confidence

There are four parts to the challenge:

- 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.
- 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*[®] Core Values which include teamwork, impact and innovation.

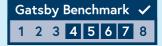
More details can be found on the FIRST® LEGO® League Challenge website.

theiet.org/challenge





*LEGO® SPIKE™ Prime robots where listed are the recommended robot for this programme. Other robots can be used, but please refer to the website for further details on which ones.











"The funding for this challenge has allowed our students to experience something that will stay with them forever."

Teacher



Encourage your students to develop skills for their futures – enter your school into one of our exciting IET Faraday® Challenge Days.

The annual IET Faraday® Challenge is an engineeringbased competition for schools. Six teams of six students, aged 12 to 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

Challenge Day.

theiet.org/faraday

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

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.



Secondary

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.

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

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
- podcasts
- 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

Follow us online:

@IETeducation









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.

theiet.org/themed-secondary

STEM posters

Use visual aids to make STEM topics more memorable.

Our free 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.





Careers information and scholarships

Gatsby Benchmark ✓
1 2 3 4 5 6 7 8

For students, degree apprentices and apprentices who want to pursue careers in engineering and technology; we offer a number of scholarships 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



Careers information for secondary students

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

These include information about the main types of engineering and the possible routes into them.

neonfutures.org.uk/resource

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:

- information about the different routes into engineering
- a booklet about 12 key areas of engineering





theiet.org/engineering-careers



Choosing the right university course

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







The routes to engineering section on our website provides 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.

Students about to start an IET accredited course are eligible to apply for an IET Future Talent Award (see pages 23 and 24).

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

mtfy.org.uk



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 Future Talent Award (see pages 23 and 24).



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, hear from industry speakers, and use our study and professional development resources.

Find out more partnerships@theiet.org

IET Future Talent Awards Launch Scholarships for students, apprentices and degree apprentices

These scholarships are for students, apprentices and degree apprentices who have faced financial or personal challenges and have a passion for engineering.



Who's it for?

Students, apprentices or degree apprentices about to start their course or apprenticeship or already enrolled in any year, and the course or apprenticeship must be accredited by the IET. They can be a part-time, full-time or a mature student.

What's on offer?

£1,500 per year for three years for bachelor's degrees and four years for MEng degrees or apprenticeships. Recipients also receive free student membership for the duration of their funding.

What else do I need to know?

- UK residents only
- You don't need to be a member of the IET
- Recipients will have opportunities to promote STEM and engineering

When's the deadline?

 Friday, 20 September 2024. For the 2025 awards get in touch: futuretalent@theiet.org

Payments

Successful candidates will receive their first payment in January 2025.

Apply today theiet.org/future-talent

IET Future Talent Awards Boost Scholarships for students and degree apprentices

These scholarships are for high-achieving students who have achieved 70% or above at the end of their second year of university and have a passion for engineering.







Who's it for?

Students who are on an IET accredited engineering or technology undergraduate degree or degree apprenticeship.

What's on offer?

At least £1,500 per year for up to two years for MEng degrees or one year for bachelor's degrees plus one year if you decide to do an IET accredited MSc. Recipients also receive free student membership for the duration of their funding.

What else do I need to know?

- Students can apply from their second year (third year in Scotland)
- You must have achieved at least 70% at the end of your academic year
- UK residents only
- You don't need to be a member of the IET
- Recipients will be chosen based on the quality of their application, and their achievements to date, and their commitment to engineering
- Recipients will have opportunities to promote STEM and engineering

When's the deadline?

 Friday, 20 September 2024. For the 2025 awards get in touch: futuretalent@theiet.org

Payments

Successful candidates will receive their first payment in January 2025.

Apply today theiet.org/future-talent

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 payment, access to an annual two-day seminar led by industry partners, paid summer placements and the opportunity of a career with their sponsoring company after graduation.

Students on IET accredited Electrical Engineering degrees at the following universities may be eligible to apply for a Power Academy Scholarship:

- University of Bath
- Cardiff University
- Imperial College London
- Liverpool John Moores
- Loughborough University
- Newcastle University
- Queen's University Belfast
- The University of Manchester
- University of Liverpool
- University of Southampton
- University of Strathclyde

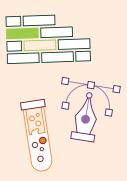
For more information, visit theiet.org/poweracademy

T Levels

T Levels are high quality, technical-based two-year qualifications, which provide a programme of study developed by employers and businesses in England.



T Levels focus on vocational skills and are designed to equip learners with the knowledge and skills wanted by businesses. They are equivalent to three A levels and are an alternative form of study aimed at 16 to 19 year olds. They can lead to a job, an apprenticeship or a degree.





What do T Levels provide students?

- A technical qualification including core theory and industry skills that will prepare them for work.
- An on-the-job industry placement with an employer for at least 315 hours.
- Students will spend 80% of their time in the classroom and 20% placed in the workforce, learning the skills that employers are looking for.

Visit our website for free curriculum maps to resources for T Levels in engineering.



- Students can learn more about the engineering and manufacturing T Level route, latest news and more.
- Teachers can find resources to support their teaching within all Engineering T Level pathways including design and development, manufacturing, process, control, and maintenance, installation and repair.





Education Volunteers









Education Volunteers help introduce young people to the exciting world of STEM and raise awareness about engineering careers.

Education Volunteers 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

For an introduction to your local volunteer contact us at **ieteducation@theiet.org**









Support

Meet our Education volunteers











There is generally one Education Volunteer 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:



theiet.org/meet-our-volunteers

Look out for our Education Volunteers at events near you. Join in and engage with our volunteers and activities, and if you are able to take any photos, please share them on your social channels tagging @IETeducation. Your participation helps us spread the word and inspire more people to get involved. So, don't be shy - let's make every event memorable together.



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

To find out about upcoming events near you contact: ieteducation@theiet.org

IET Education bulletin

Sign up to our free monthly email education bulletin and keep up to date with all of the news, views and events from the IET Education team and our partners.









Covering primary and secondary education, the bulletin highlights the IET's latest resources and offerings as well as those from our Partner organisations, keeping you informed of the latest education news affecting our community as well as encouraging you to take part in upcoming activities.

Sign up to ensure your school are the first to know when IET Faraday® Challenge Day applications open or when the FIRST® LEGO® League team start accepting registrations for the next season. Find out when the latest resources are available to download for engaging your students and view our celebrated engineer each month to see if they can inspire your students to dream big and follow in their footsteps.

Let us help you and together we can inspire the next generation of engineers and technologists.



Sign up here:

theiet.org/education-bulletin

STEM Teacher Membership



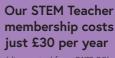


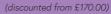
We're offering a bespoke membership package – designed specifically to meet your needs as education professionals.

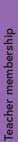
Who are we?

the next generation.

The IET inspires, informs and influences the global engineering community to engineer a better world. We have an incredible global reach with over 156,000 members, 350 partners, and a volunteer network of over 4,000 engineering and technology professionals all supporting outreach programmes. We also have strong ties with universities, primary and secondary schools across the UK. Together, we promote the exchange of information and ideas for the advancement of STEM to inspire







Why us?

Our STEM Teacher Membership provides unique opportunities to take your STEM teaching to the next level, and we've discounted it - so you'll pay just £30 for the whole year.

Join today to start enjoying these benefits:

- Access to networking opportunities with IET Academic, Corporate and Enterprise Partners.
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