



The Institution of
Engineering and Technology

Develop your career in
the built environment

with help from the IET

theiet.org/built-environment

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Your industry is changing

The built environment champions the physical environments that people need to work, rest and play, including offices, homes, services and open spaces. Combining engineering and technology and inspired by issues of the day and innovation, the built environment tackles the biggest challenges impacting our world today.

Whether it's to reach net zero goals, halve building energy use, or retrofit homes, engineers must work together to understand infrastructure and deliver outcomes for the people and the wider environment.

We have outlined all our resources relating to the built environment sector. Whether you're working in the industry, research, or you're studying, you'll find resources and information to help keep pace with industry changes and move forwards in your career.

By joining a multidisciplinary, professional engineering institution such as the IET, you can keep up to date with industry developments, learn skills that are in demand and build your reputation in this dynamic sector.



About the IET

As a professional engineering institution and a registered charity, we're working to engineer a better world, inspiring, informing and influencing the global engineering community and supporting technology innovation to meet the needs of society.

We have 167,000 engineer and technician members in over 150 countries, with headquarters in London and offices in Bangalore, Beijing, Hertfordshire, Hong Kong and New Jersey.

Reflecting the increasingly multidisciplinary nature of modern-day engineering, our work celebrates and supports engineering and innovation across key areas, from design and manufacturing, energy, healthcare, and digitalisation to transport and the built environment.

Passionate about the built environment? We're here to help you take the next steps in your career.

Find out more
theiet.org



Join us, join in

As Europe's largest membership organisation for engineers and technicians, membership of the IET means a **Professional Home for Life®**. With us you'll find all the tools you need to develop, discover and succeed.

Put simply, the IET is where you belong.

Become a member today and have access to:

- Internationally recognised professional qualifications: **CEng, IEng, EngTech and ICTTech.**
- **Professional services** and support throughout your career.
- Over 100 **local communities** and **technical networks** worldwide.
- Over 1,700 **events** and **networking** opportunities per year.
- **Extensive library** containing digital and printed engineering and technology resources.
- Access to a range of unrivalled **knowledge services.**
- Online tools to **log your development** and **record your skills and achievements.**

Join the IET today:
theiet.org/join

Email us at: join@theiet.org
Phone us on: +44 (0)1438 767648
or Text: 'IET Join' and your name to 07860 002793*

*free text line, no charges apply



Stay up to date with the latest engineering news

E&T is the IET's award-winning monthly magazine and associated website for professional engineers. It covers all areas of engineering and technology, with analysis, news, innovation announcements and job advertisements.

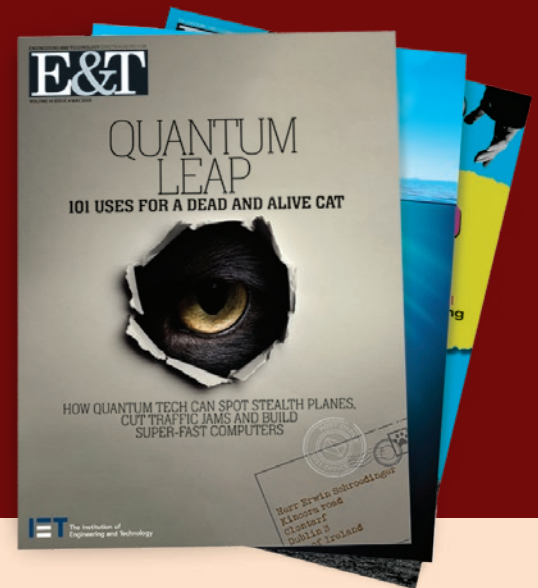
It's available in print, online and via mobile devices. You can also keep up with the latest developments with our daily email newsletter, whitepapers and webinars.

To find out more visit
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to our audience
of up to 167,000
members?**

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Take part in inspirational events

If you want insight and debate from top speakers on the engineering and technology topics that are affecting your role – then take a look at our latest events. They include seminars, conferences, technical visits and more.

IET events are a great opportunity to meet, network and debate with fellow engineers and practitioners and provide CPD hours which you can record on IET Career Manager.

For those presenting at major events, conference papers are automatically submitted for indexing on IET Inspec, IEEE Xplore and Ei Compendex.

Many of our events are live-streamed or available on-demand on IET.tv.

Find out more

theiet.org/events



Scaling up retrofit 2050

Why a nationwide programme to upgrade the existing housing stock is the only way for the UK to achieve its carbon saving goals.

The UK cannot build its way to a low-carbon future without upgrading its old, cold homes to meet the legal energy-saving targets set out in the 2008 Climate Change Act.

This report calls for a nationwide programme to boost the energy efficiency of existing homes through deep retrofit, stating that it's the only way for the UK to achieve its carbon saving goals. It urges both national and local government to take the lead in encouraging and supporting the necessary changes and also identifies the current barriers that have to be overcome in order to put such a plan in place.

Download your free copy at
theiet.org/retrofit2050



IET The Institution of Engineering and Technology

NOTTINGHAM TRENT UNIVERSITY

Scaling up retrofit 2050

Why a nationwide programme to upgrade the existing housing stock is the only way for the UK to achieve its carbon saving goals.

theiet.org/built-environment
www.ntu.ac.uk

Celebrate talent across the built environment sector

Awards and prizes

We recognise talent through a wide range of awards and prizes, including our Achievement Medals, Apprentice and Technician of the Year Awards, Young Woman Engineer of the Year Awards, and a variety of scholarships, bursaries and research awards.

Help us celebrate and support the future of the engineering and technology profession by promoting these prizes to your network and help us reward excellence by nominating talented engineers for our awards.

Find out more

theiet.org/awards

A number of bursaries worth up to £4,000 are available to apprentices and undergraduate students.

To find out more visit

theiet.org/horizons



Build up your knowledge and skills

Get the training and information you need to succeed in your current role, and progress to new ones.

Digital Library

Access cutting-edge research from IET Books and Journals.

Advance and share your knowledge as a practitioner, researcher or student using the latest research from our trusted books and journals collection.

Find out more

ietdl.org

E-learning

Bring your skills up to date with courses from the IET Academy covering a broad range of technical and professional topics.

All courses are written by leading academics and industry organisations and are available as bite-size modules or full courses.

Find out more

theiet.org/academy

IET.tv

Watch engaging and inspiring content from leading academics and influencers.

IET.tv's video content is sourced globally, with over 9,000 videos of top quality multimedia.

Find out more

theiet.org/tv

Courses and training

Whether you want to hone your leadership skills, understand finances for clear decision-making or master project management – our professional skills training courses can help.

We have a range of courses that can be delivered in-company or through public courses, webinars and e-classes.

Find out more

theiet.org/pd-courses

Wiring Regulations

Ensure you're compliant with the latest *IET Wiring Regulations (BS 7671)*.

Order your copy of BS 7671:2018 and our practical guidance publications and find a wealth of resources to get you up to speed with the latest requirements. You can find training solutions, events, digital subscriptions and our free online *Wiring Matters* magazine direct from the experts at the IET.

Find out more

theiet.org/18th-resources-pr

Standards

Ensure you're following best practice by referring to our expert Standards publications.

Our range includes Guides and Codes of Practice that provide guidance on emerging and established technologies.

Find out more

theiet.org/standards

Continuing Professional Development

Investing time in your Continuing Professional Development (CPD) will help you gain the relevant competencies, the recognised knowledge, skills and attributes you need to deliver results throughout your career.

Keep a record of your CPD and plan future activities using the IET's simple online tool – Career Manager.

Find out more

theiet.org/cpd

≡ Inspec Analytics for the built environment

Understand your place in the built environment research landscape and make strategic decisions about the direction of your projects with Inspec Analytics, a dynamic new tool based on the IET's renowned Inspec database.



Find out more

theiet.org/inspec

inspec-analytics.theiet.org

Support your R&D planning

- Monitor the research output of your organisation and see how this ranks globally.
- Compare your organisation with collaborators and competitors to set valuable benchmarks.
- Monitor global trends for hundreds of research topics to explore new fields and identify resources.
- Find collaboration opportunities with universities, government and health organisations to demonstrate impact.

For built environment researchers

- Stay up to date with the latest global trends in built environment research.
- Discover new topics relating to your field and the resources you need to get up to speed.
- Identify the best journals to publish your research and conferences to present at.

Good Data for the Public Good

Realising our influence in moving from paper to data.

To deliver operational benefits for owners, operators, occupants and users of built assets throughout their whole life, we need data that's perpetually accessible while also being securely managed. Simultaneously, to deliver wider social, economic and environmental benefits, we also need data to be open. This doesn't mean free; openness of data is about its interoperability and ease of distribution.

This report looks at the built environment's transition from document-centric to data-centric. Written for technology providers and users within the built environment engineering and design community, it will also consider the changing focus around project delivery; moving away from short-term towards whole-life value propositions.

Keep an eye out for the report at
theiet.org/good-data

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Good data for the public good

Realising our influence in moving from paper to data

theiet.org/good-data

In partnership with

ARCADIS ARUP ATKINS Norconsult SWECO

■ Responding to built environment challenges

We regularly publish reports and host webinars that address some of the greatest engineering and technology challenges currently facing the UK built environment sector, written and peer-reviewed by thought leaders from across the profession.



One example is our, 'Digital Twins for the built environment' report. The engineering industry now largely sees the need for digital twins, but varying definitions and interpretations of what constitutes one is complicating development and adoption. This report introduces the opportunities, benefits, challenges and risks of digital twins. It presents a clear and industry-agnostic maturity spectrum to address this, with requirements and outcomes defined by six elements of development.

In our 'Flourishing Systems launch' webinar, we gave audiences an opportunity to meet the contributors of the report and to enquire further into their thinking on the topic. The central idea in Flourishing Systems is simple and radical: that the purpose of infrastructure is human flourishing and that infrastructure is a system of systems.

Other written material published by the IET includes papers on 'Smart buildings in action' and 'Building Information Modelling (BIM): addressing the cyber security issues' with more being prepared for future release.

To read our latest reports and papers, visit
theiet.org/built-environment-reports

Build your reputation

If you want to have more influence in the built environment sector, consider becoming a thought leader, taking on a voluntary role, or even achieving a professional status such as Chartered Engineer.

Thought Leadership

The IET built environment sector was established to promote innovation and creativity among future leaders in design, construction and our human-made infrastructure.

By gathering together stakeholders from groups such as asset owners, technology providers, contractors and entrepreneurs, we ultimately aim to bring about more effective and efficient solutions to issues such as retrofit, smart cities, integrated building services, infrastructure risk and resilience.

We achieve this through the expertise of our volunteer-led Sector Panel of IET Members and built environment experts.

Our mission statement is:

“

because we believe that technology can drive better infrastructure, we exist to harness all sector voices to deliver outcomes for the people and the wider environment.

”

To discover more about the work of our expert built environment panel, visit theiet.org/built-environment

Other volunteering opportunities

There's a range of volunteering activities to choose from at the IET and the level to which you participate is entirely up to you!

You can:

- become an assessor, mentor or IET education ambassador
- meet others who live and work in your area or who share your interests in the built environment sector
- represent the IET within external bodies and organisations

Find out more

theiet.org/volunteers

≡ Achieve professional recognition

Becoming professionally registered proves to employers, customers and peers that you've met standards of knowledge, understanding and competence. You'll be recognised for your skills and achievements and will earn the right to use letters after your name.

We are licensed to award Chartered Engineer (CEng), Incorporated Engineer (IEng) Engineering Technician (EngTech) and Information and Communications Technology Technician (ICTTech).

Brand new!

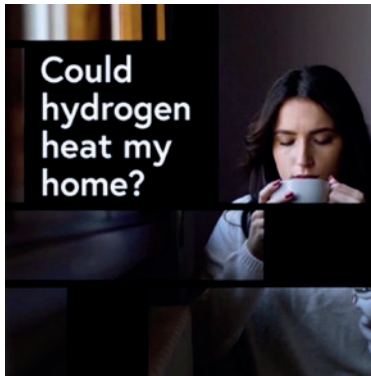
Electrician EngTech is a new route to EngTech focusing on the competencies and experience specific to electricians.

Find out more
theiet.org/profreg



Highlighting engineering issues which affect society

The IET is home to a rich collection of built environment related video resources, from bite-size summaries for social media to full conference recordings captured on camera. Our ever-growing library of filmed content includes numerous 'hot topic' videos covering some of the biggest emerging themes, such as achieving net zero by 2050, age friendly and inclusive living, low environmental impact homes and implementing digital twins.



To boost our public engagement, we have developed 'EngShorts', a series of 60-second videos which focus on key engineering issues affecting society. Their aim is to highlight the important role that engineering plays in addressing key challenges that affect us all. Questions covered so far include 'Can we unlock greater value from the built environment?', 'Can we learn from COVID-19?', and 'Are smart meters important?'.

Subscribe to our built environment newsletter to never miss out on our latest videos

theiet.org/sector-newsletters

== Keep up to date with industry developments

Explore the IET's resources and you'll find various ways to keep up with what's happening within the built environment sector and the wider engineering and technology industry.

IET Communities bring industry and academia together, giving engineers around the world a platform to network, learn and collaborate. They are open to IET members and non-members, enabling engineers and technicians to network, share and develop knowledge online or face to face. We bring engineers together by region, technical interest or career stage, so you're sure to find one that suits you.

If you're passionate about shaping the future of the built environment sector, then why not get involved? There are many opportunities available, from attending committee meetings, bringing new ideas to the table and organising, running and promoting events. .

- make new connections and expand your network
- learn new skills that will count towards your CPD
- contribute ideas for event topics
- gain a competitive edge when applying for jobs
- share your passion and inspire others

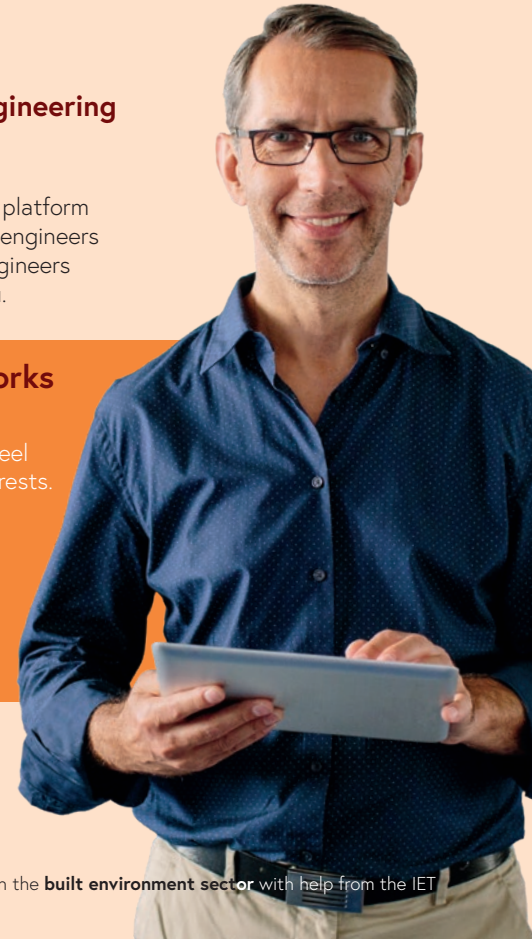
Visit our website and get involved

theiet.org/communities

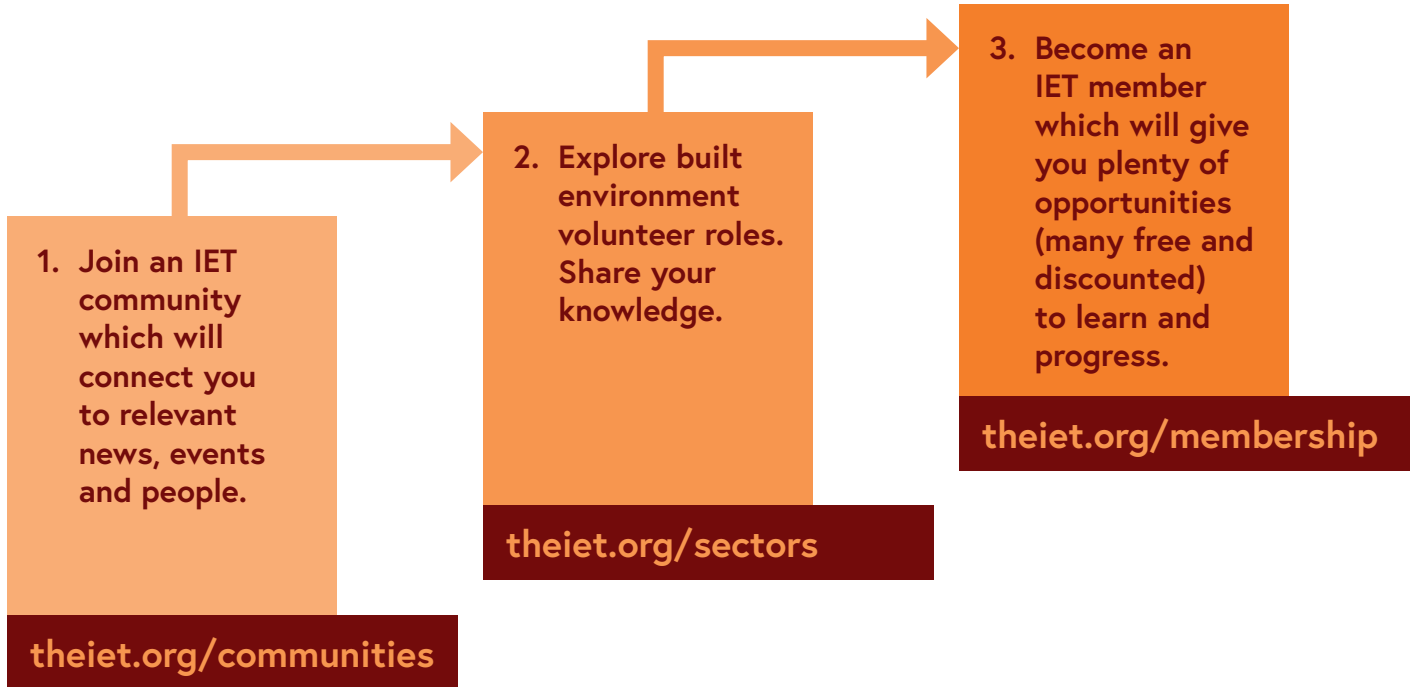
Built environment networks

You can join any technical or geographical network which you feel is relevant to your career and interests. We have three key networks with this area:

- Built Environment
- Smart Buildings
- System Safety Engineering



Three easy ways you can learn more and progress... today!





The Institution of
Engineering and Technology

Our offices

London, UK

T +44 (0)20 7344 8460

E faradaycentre@ietvenues.co.uk

Stevenage, UK

T +44 (0)1438 313311

E postmaster@theiet.org

Beijing, China

T +86 10 6566 4687

E china@theiet.org

W theiet.org.cn

Hong Kong

T +852 2521 2140

E adminap@theiet.org

Bangalore, India

T +91 80 4089 2222

E india@theiet.in

W theiet.in

New Jersey, USA

T +1 (732) 321 5575

E ietusa@theiet.org

@TheIET      

theiet.org

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