



The Institution of  
Engineering and Technology

# Develop your career in manufacturing

with help from the IET

[theiet.org/design-manufacturing](https://theiet.org/design-manufacturing)



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# Here to help you develop your career

**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 158,000 engineer and technician members in over 150 countries. We support engineers and technicians studying, teaching, and working in a wide range of engineering sectors from manufacturing, digital, and energy, to transport, healthcare, and the built environment. We offer a professional home for life, supporting our members at every stage of their engineering careers towards professional registration and Chartered status.

We provide an extensive range of membership, professional development and knowledge services, working closely with government, industry, and the education sector to champion engineering excellence and inspire the next generation of engineers and technologists. We're here to help you take the next steps in your engineering career.

This booklet will tell you more.



From  
professional development



to  
mentoring

to  
chartered engineer

# Join us today, and together we'll achieve great things.

Whether you're just starting out as an engineer, or you're a senior engineer at the top of your game, we're here to support you and make you a part of our thriving community.

IET membership is more than just letters after your name, joining unlocks many benefits:

- Grow your professional network via events, seminars and communities.
- Share information with like-minded professionals.
- Advance your career through in-depth training, workshops, webinars and development frameworks.
- Stay up-to-date with industry knowledge and trends through E&T Magazine.
- Support your Continuing Professional Development with Career Manager.
- Access the latest technical content through journals, research archives and IET.tv.

the IET keeps me at the  
cutting edge of technology

David Gillespie CEng MIET SMIEEE  
Applied Research Specialist

[theiet.org/join](http://theiet.org/join)

# Passionate about manufacturing

**If you're working in manufacturing, or contemplating a career in the sector, you're part of an industry which employs 2.7 million people (with average earnings of £34,538), accounts for £191 billion of output and accounts for 53% of total UK exports. (Source: Make UK/Santander)**

Manufacturing is forever changing across the globe. As a sector, we must reduce the adverse impacts of our operations on the environment.

That means designing and making things in a better way and, that means, reducing the level of resources needed to manufacture, such as energy, water, and raw materials. We must make things in more efficient and productive ways.

As global industries adapt and adjust to climate change and on-going Covid-19 recovery, engineers will play a vital and increasing role in enabling industry to meet these challenges.

Find out more at  
[theiet.org/design-manufacturing](https://theiet.org/design-manufacturing)

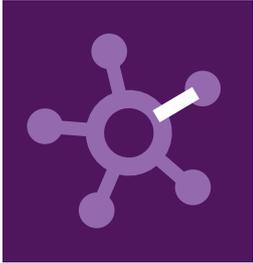


There's never been a better time for engineers working in this space. We are passionate about manufacturing and here to champion how engineers are driving innovation forward across the sector.



Jeremy Hadall FIET  
Chair, IET Design and Production Sector Panel and  
Robotics Development Lead, Satellite Applications Catapult

## Partner with the IET



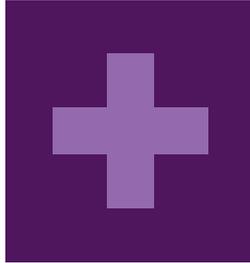
### Enterprise Partners

Launched in 2016, we provide development opportunities for engineers in small and medium-sized enterprises (SMEs) and exposure for SME businesses.



### Corporate Partners

150 Partners with a global reach with the majority focusing on providing competency assessments for engineers and technicians as well as connecting these large organisations with our community.



### Healthcare Partners

Launched in 2020, a partnership offered for companies operating in the healthcare industry. The aim is to increase awareness of engineering excellence across healthcare.



### Academic Partners

75 Academic Partners across the UK with a focus on using the IET to increase student engagement and enhance links with industry.



### MOD/Armed Forces

Focusing on competency development and assessment across the services, highlighting the engineering skillset.

The IET partners with over 350 organisations across the UK and globally to create a diverse and innovative community of like-minded engineers and technicians.

Organisations choose to partner with the IET to get tailored support for their employees and get access to world class products and services.

- Company-based registration support
- Partnership events
- Partner News, in-print and online
- Further engagement across the IET

# Achieve professional recognition

Becoming Professionally Registered proves to employers, customers and peers that you've met the highest 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).
- Chartered Manager (CMgr).
- Incorporated Engineer (IEng).
- Engineering Technician (EngTech).
- Electrician Technician (EngTech).
- Information and Communications Technology Technician (ICTTech).

Find out more

[theiet.org/profreg](https://theiet.org/profreg)



# 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](http://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](http://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 13,000 videos of top quality multimedia.

Find out more

[theiet.org/tv](http://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](http://theiet.org/pd-courses)

## Sponsorship and exhibition opportunities

Partner with us and be part of something amazing.

By sponsoring one of our events you will receive brand visibility through our website and marketing materials including email and print, delegate places for networking opportunities for your company and the opportunity to appear in conference programmes and panel discussions.

Find out more

[theiet.org/live](https://theiet.org/live)

## Codes and Guidance

Ensure you're following best practice by referring to our expert Codes and Guidance publications.

Our range includes publications that provide guidance on emerging and established technologies.

Find out more

[theiet.org/standards](https://theiet.org/standards)

## 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-edition](https://theiet.org/18th-edition)

## Guide to implementing industrial robots

This guide raises awareness on the best practice associated with the setting up of an automated process, with specific focus on industrial robotics for use in manufacturing and associated industries.

Find out more

[theiet.org/design-manufacturing](https://theiet.org/design-manufacturing)

## 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](https://theiet.org/cpd)

# ≡ We need volunteers

**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!**

Volunteering with us is as rewarding as it is interesting and it's vital to supporting professionalism in engineering and technology. If you're passionate about the profession, why not join over 4,000 skilled and experienced volunteers and be an ambassador of industry expertise and influence?

## You can:

- Become an assessor, mentor or Education Officer/Ambassador.
- Meet others who live and work in your area or who share your interests in the manufacturing sector.
- Represent the IET on external bodies and organisations.

Find out more

[theiet.org/volunteers](http://theiet.org/volunteers)

“

My position on the apprenticeship scheme will allow me to combine my passion with my preferred learning style and offers the opportunity to train up and work in a constantly developing and improving industry, in a business that takes new and improved concepts from initial design through development, manufacture and maintenance.

”



Dominic Groom

Rolls Royce Plc (Aerospace), Practical apprentice and beneficiary of an IET Engineering Horizons Bursary supported by The David Family Foundation

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

To find out more visit

[theiet.org/horizons](http://theiet.org/horizons)

# 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](http://theiet.org/events)



# Celebrate talent in manufacturing

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

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.

Find out more  
[theiet.org/awards](http://theiet.org/awards)

# ≡ Get involved in an IET community

**Our communities bring people together, online and in-person. Connect and meet up with people who share your passion for engineering, innovation, and technology. Network, learn, collaborate.**

Whether you're studying, teaching, working in engineering or just have a love or fascination for the subject, you're sure to find a network that suits you.

Select the networks which interest you most. We have networks based on geography, technical engineering area, and career-stage. What's more, our networks are open to IET members and non-members alike.

All our networks rely on the tireless contribution of volunteers. Each network has a committee which organises activities for their network, on an annual basis.

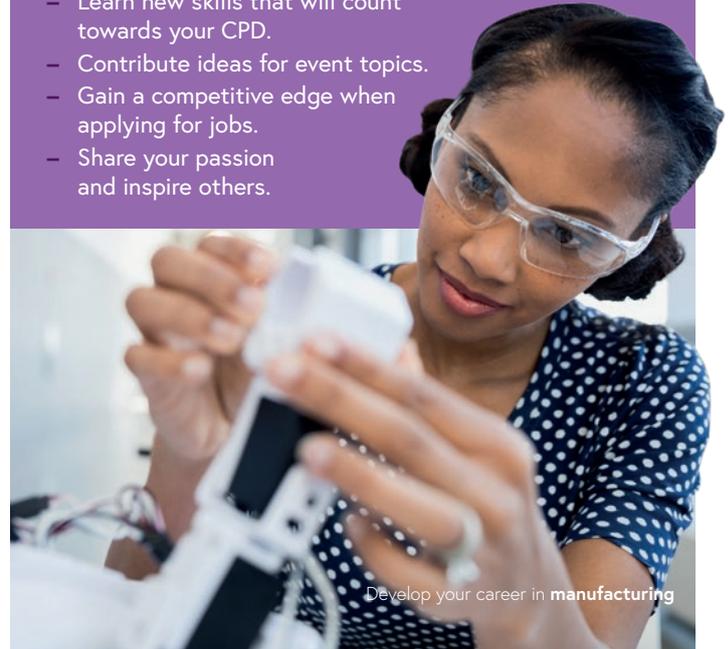
As a member of a network you can get involved in a wide range of activities such as attending a talk or expert presentation on a specific topic, or promoting STEM careers to students at local schools or colleges, or serving on your network committee.

Visit our website and get involved!

[theiet.org/communities](https://theiet.org/communities)

## You can also:

- 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.



# Networks for manufacturing engineers

**We have several technical networks which enjoy a strong connection with design and manufacturing engineering.**

## **Manufacturing Technical Network**

The Network aims to share the latest industry news and information with the wider manufacturing community. It delivers a variety of activities throughout the year including free-to-attend events, webinars, blog posts and more.

The network is run by a passionate committee of volunteers who are always looking for enthusiastic new members to join them. If you're interested, please email [manufacturing-tpn@ietvolunteer.org](mailto:manufacturing-tpn@ietvolunteer.org)

## **Robotics and Mechatronics Technical Network**

The Robotics and Mechatronics Technical Network seeks to connect, engage and inspire the wider community to understand and explore robotics and mechatronics.

All network activity is driven by a group of committed individuals from both industry and academia. The network is always happy to accept new members who are eager to share their enthusiasm for the subject. If you'd like to find out more please email [roboticstpn@ietvolunteer.org](mailto:roboticstpn@ietvolunteer.org)



## **Other networks which may be of interest include...**

- Aerospace.
- Automotive and Road Transport.
- Control and Automation.
- Power, Electronics, Machines and Drives.
- Project Controls.
- Railway.
- System Safety Engineering.
- Tribology.
- Vision and Imaging.

For a complete listing of our networks please visit

[www.theiet.org/communities](http://www.theiet.org/communities)

# Policy input for Government

Taking engineering to the heart of Government, our policy and thought leadership panels provide input and evidence to civil servants, policy makers and politicians and campaign with industry and academia on engineering and technology issues of the day.



Our expert panels, chaired by an IET Member appointed by the Board of Trustees, bring together industry practitioners and academic specialists to proactively develop policy positions, publish white papers and react to consultations and inquiries from Government, select committees, All Party Parliamentary Groups (APPGs) and others.

In addition to an expert panel for each of the IET's six industry sectors, there are also dedicated panels for Scotland, Northern Ireland, Engineering Safety, Education, and Innovation and Skills. From time to time, experts from different panels come together to work on cross-sectoral policy and insights.

Find out more  
[theiet.org/policy](https://theiet.org/policy)

# Design and manufacturing matters

**Our Design and Manufacturing panels focus on helping governments and industry to address the key challenges facing these essential sectors of the global economy.**

To give you an idea of the topics we tackle, here are some examples of our on-going work with manufacturers and policy makers.

## Sustainable manufacturing and Industry 4.0

We champion manufacturing net zero and digital and have a vital role to play.

## The future manufacturing engineer

Our joint IET IMechE survey revealed some surprising findings.

If you have industry or policy experience and expertise and would be interested in finding out more about serving on our manufacturing panels, do please get in touch.

Find out more

[theiet.org/design-manufacturing](https://theiet.org/design-manufacturing)

## Horizontal Innovation™

Some of our greatest challenges may already have an answer.

## Creating a vision for manufacturing 2040

How will the sector change into the future? What will we be making in 20 years' time?



“

Working as part of an expert team, developing policy input for Government, the Panel is the perfect place for me to channel my passion for design, manufacturing and diversity.

”

Mamta Singhal CEng FIET  
and Member of the IET's  
Manufacturing Policy Panel

# ≡ Inspec Analytics for manufacturing

Understand your place in the manufacturing research landscape and make strategic decisions about the direction of your projects with this dynamic tool based on the IET's renowned Inspec database.



Find out more

[theiet.org/inspec](https://theiet.org/inspec)

[inspec-analytics.theiet.org](https://inspec-analytics.theiet.org)

Inspec Analytics Plus adds valuable new data sets and functionality to Inspec Analytics, providing integrated citation metrics and enhanced collaboration analysis across thousands of organisations and scientific concepts.

## Support your R&D planning

- Monitor the manufacturing 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 manufacturing research topics to explore new fields and identify resources.
- Find collaboration opportunities with universities, government and health organisations to demonstrate impact.

## For manufacturing researchers

- Stay up-to-date with the latest global trends in manufacturing research.
- Discover new topics related 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.

Inspec covers a wide range of manufacturing topics covering industries including agriculture, clothing, defence, electronics, food, footwear, fuel, medical supplies, paper and pulp, transportation and many more.

# 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  
[eandtmagazine.com](http://eandtmagazine.com)

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# ■ Publish your paper

## Do you have new and high-impact manufacturing research to present?

A fully Gold Open Access journal, *IET Collaborative Intelligent Manufacturing* attracts high quality papers on methodologies and techniques for the application of intelligence, data science and emerging information and communication technologies in the design, modelling, simulation, planning and optimisation of product, process, production, assembly, supply chain and logistics.

### Why publish in IET Collaborative Intelligent Manufacturing?

Worldwide readership and database coverage including:

- **IET Inspec and Google Scholar**, allowing your research to be easily accessed.
- **Online submission and tracking** for up-to-date progress of your paper.
- **Prompt and rigorous peer review** provides authors with a quick decision about publication.
- **Open Access publication** makes your work freely available to all and our range of licence options allows authors to meet the publication requirements of research funding bodies.
- **Early view publishing** in advance of issue publication ensures your research is available at the earliest opportunity.
- **Easy, online access** to IET Journals via the Wiley Online Library allows for easy sharing of your research.



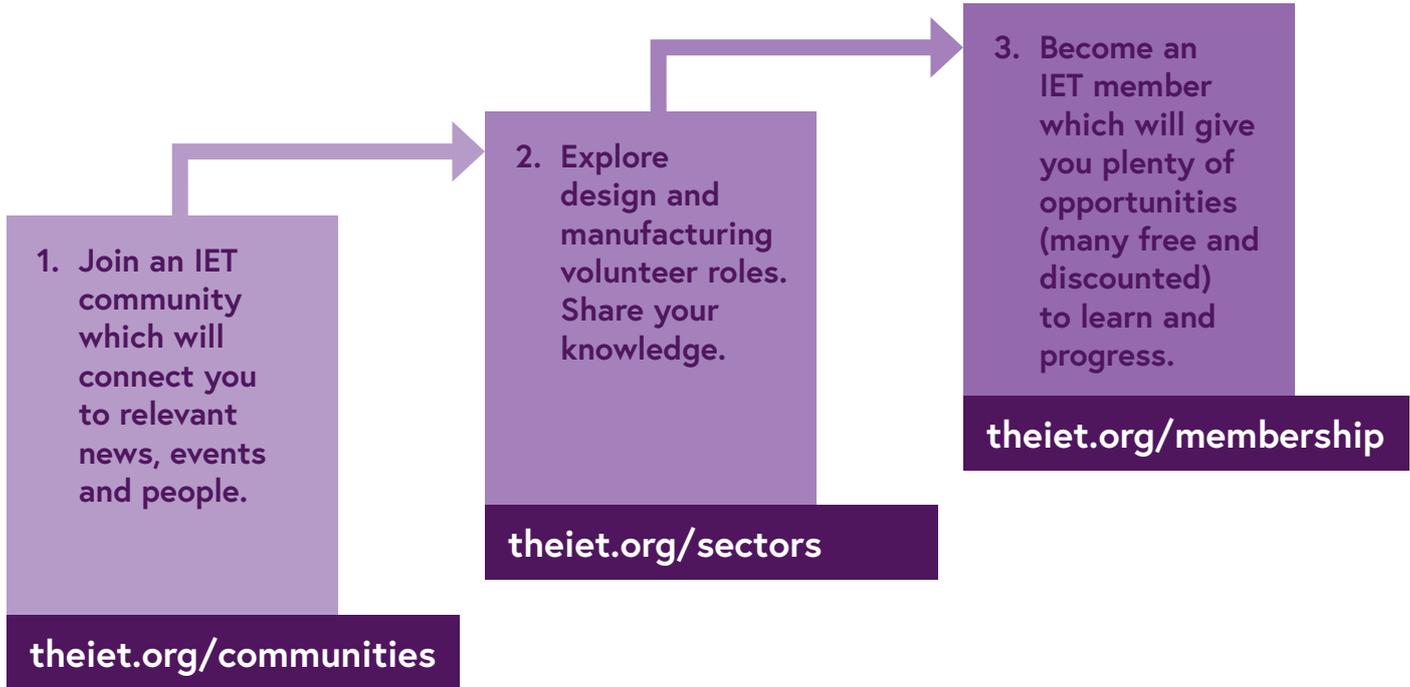
Find out more  
[wileyonlinelibrary.com/IET-CIM](http://wileyonlinelibrary.com/IET-CIM)

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[mc.manuscriptcentral.com/  
theiet-cim](http://mc.manuscriptcentral.com/theiet-cim)

All submissions are subject to the journal's peer-review procedures.

For editorial enquiries email  
[theiet\\_cim.office@wiley.com](mailto:theiet_cim.office@wiley.com)

# Three simple steps to develop your career in manufacturing... today!





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