Develop your career in manufacturing

with help from the IET

theiet.org/design-manufacturing
Contents

Here to help you develop your career 3
Enter digital manufacturing 4
Stay up to date with latest engineering news 6
Join us, join in 7
Build up your knowledge and skills 8
Take part in inspirational events 10
Publish your paper 11
Inspec Analytics for manufacturing 12
Celebrate talent in manufacturing 13
Achieve professional recognition 14
Get involved in an IET community 15
Your expertise can find many outlets 16
We need volunteers! 18
Three easy ways you can learn more and progress today 19
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 169,000 engineer and technician members in over 150 countries, with headquarters in London and offices in Bangalore, Beijing, Hertfordshire, Hong Kong and New Jersey.

We promote the increasingly diverse, innovative and multidisciplinary nature of modern-day engineering to secure solutions to the world's greatest challenges. Our work celebrates and supports engineering across key areas, from design and manufacturing, energy, healthcare, and digitalisation to transport and the built environment.

Passionate about manufacturing? We're here to help you take the next steps in your engineering career.
Enter digital 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 £33,592), accounts for £192 billion of output and accounts for 44% of total UK exports. (Source: Make UK/Santander)

There's never been a better time to be working in the sector, with new opportunities and challenges such as adopting digital technologies, resource productivity and skills being top of the agenda.

**Digital**

Firms adopting digital manufacturing technologies within their operations have seen their costs reduce, their productivity improve, and their order books grow, as a result. Engineers will play an increasing role in this on-going transformation.

**Resources**

Global industry generates more than 30 percent of climate change impacts. The challenge to engineers is to deliver solutions. Resource productivity – making more while using less – holds the key. Working together, we can create value, impact and opportunity.

**Skills**

How will traditional manufacturing engineering jobs of the present day change into the future as a result of digital transformation, servitisation and other disruption within the sector? What will the manufacturing engineering roles of the future look like?

Find out more at theiet.org/design-manufacturing
Manufacturing is changing forever, and the IET’s Design and Production Sector has an important role to play in helping make sense of it all. We’re passionate about manufacturing and here to champion how engineers are driving innovation forward across the sector.

Jeremy Hadall FIET
Chair of the IET’s Design and Production Sector
Executive Committee and Chief Engineer
Intelligent Automation at the Manufacturing Technology Centre (MTC).
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

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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
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

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

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
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
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.

We now accept short communication articles of two to four pages which report on innovative ideas and original results that need to be rapidly published. On average, authors receive a first-round decision within 10 weeks of submission.

If you are interested in becoming a reviewer of this journal, please contact iet_cim@theiet.org for more information.

[letdl.org/IET-CIM](http://letdl.org/IET-CIM)

All APCs are waived for 2019
Inspec Analytics for manufacturing

Understand your place in the manufacturing 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.

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.

Find out more
theiet.org/inspec
inspec-analytics.theiet.org
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

“Taking up an IET Engineering Horizons Bursary has really helped me to start out in my manufacturing engineering career. I’m looking forward to completing my apprenticeship and really feeling part of the industry.”

Marie Isaacs
Jaguar Land Rover apprentice and beneficiary of an IET Engineering Horizons Bursary supported by The Engineers Trust

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

To find out more visit theiet.org/horizons
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)
- Chartered Manager (CMgr)
- Chartered IT Professional (CITP)
- Incorporated Engineer (IEng)
- Engineering Technician (EngTech)
- Electrician Technician (EngTech)
- Information and Communications Technology Technician (ICTTech).

Find out more
theiet.org/profreg
Get involved in an IET community

Our 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 engineering, then why not get involved? There are many opportunities available, from attending committee meetings to bringing new ideas to the table, through to the organising, running and promoting of 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

Manufacturing networks
You can join any technical or geographical network which you feel is relevant to your career and interests. There are four IET technical communities which cover manufacturing.

These are:
- Manufacturing
- Control and Automation
- Robotics and Mechatronics
- Project Controls
Your expertise can find many outlets

Taking manufacturing to the heart of government and industry, we have two expert panels which meet to develop manufacturing policy and deliver industry campaigns.

Our Manufacturing Policy Panel, brings together manufacturing leaders from industry and academia to respond to government reviews and select committee inquiries on behalf of the IET.

In recent times, the Policy Panel has responded to consultations on industrial energy, regional investment and the adoption of digital technologies within manufacturing.

Our Design and Production Sector brings together engineers and researchers to create white papers, videos and events on technology adoption and innovation. Sustainable manufacturing, applied visualisation (AR & VR) and Horizontal Innovation™ are just three of the topics which the Sector has been developing in recent times.

Find out more
theiet.org/design-manufacturing
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 MIET
and Member of the IET’s Manufacturing Policy Panel.
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!

You can:

– become an assessor, mentor or Schools' Liaison Officer
– 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
Three easy ways you can learn more and progress... today!

1. Join an IET community which will connect you to relevant news, events and people.

2. Explore design and manufacturing volunteer roles. Share your knowledge.

3. Become an IET member which will give you plenty of opportunities (many free and discounted) to learn and progress.

theiet.org/membership

theiet.org/sectors

theiet.org/communities

We need volunteers! – Three easy ways you can learn more and progress... today!