

Move forwards in your  
**manufacturing  
engineering  
career**

with help from the IET



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# CONTENTS

<b>Your industry is changing</b>	<b>3</b>
<b>Move forwards in your career</b>	<b>5</b>
<b>Keep up with industry developments</b>	<b>6</b>
<b>Setting a new standard in engineering e-learning</b>	<b>8</b>
<b>IET guide to implementing industrial robots</b>	<b>9</b>
<b>Develop skills for the future</b>	<b>10</b>
<b>Guide to smart factories</b>	<b>12</b>
<b>Build your reputation</b>	<b>13</b>
<b>Passionate about technology, passionate about manufacturing</b>	<b>16</b>
<b>Applied Visualisation event</b>	<b>17</b>
<b>Three ways you can learn more and move forwards... today!</b>	<b>18</b>
<b>About the IET</b>	<b>19</b>



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).

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# YOUR INDUSTRY IS CHANGING

**Digital technologies are transforming manufacturing plants and production lines.**

Whether you're working in industry, research, or you're studying manufacturing engineering, you need to keep pace with change to move forwards in your career.

By joining a 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 the sector.





## 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.

Visit [www.eandtmagazine.com](http://www.eandtmagazine.com) to find out more

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Get in touch: **T:** 01438 767351 **E:** [lhall@theiet.org](mailto:lhall@theiet.org)

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



# MOVE FORWARDS IN YOUR CAREER

If you want to give yourself as many opportunities as possible to learn and progress, consider becoming an IET member. You'll be kept informed of our professional development activities and resources, many of which are free or discounted for members.

Member benefits include:

- A subscription to the award-winning E&T Magazine.
- A route to professional registration.
- Discounts on training and events.
- Access to our online career development tool (Career Manager), as well as our knowledge resources.

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



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# KEEP UP WITH INDUSTRY DEVELOPMENTS

Explore the IET's resources and you'll find various ways to keep up with what's happening – both in manufacturing and the wider engineering and technology industry.

## COMMUNITIES

Join a network which is local to where you live or work, or a community focused on a particular area of manufacturing engineering (see below). You'll also find a wide range of topical communities online, on our professional networking platform Engineering Communities.

## MANUFACTURING NETWORKS

- Manufacturing Technical and Professional Network (TPN)
- Control and Automation TPN
- Robotics and Mechatronics TPN
- Project Controls TPN

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



## E&T MAGAZINE

Read latest news, lively debate and authoritative coverage on manufacturing – and other engineering sectors – in E&T magazine. It's available in print, online and via mobile devices.

Find out more: [www.eandtmagazine.com](http://www.eandtmagazine.com)

## 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, lectures and more.

You can even catch our events live-streamed or on-demand via our video-sharing platform IET.tv.

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

Visit: [www.theiet.org/tv](http://www.theiet.org/tv)





# SETTING A NEW STANDARD IN ENGINEERING E-LEARNING

Whatever your career stage, the IET Academy provides expert e-learning courses across a broad range of technical and professional topics.

Whether you need to bring your skills up to date in a specific subject area, maintain your CPD requirements or are looking to find a training solution for your team or company, the IET Academy provides a rich learning experience proven to deliver results.

All courses are written by leading academic and industry organisations and are available as bite-size modules or full courses allowing you to fit your training around your working day.

Courses cover a range of sectors including built environment, communications, power and transport. We also offer courses on safety and security, wiring regulations and professional skills.

Find out more: [www.theiet.org/academy](http://www.theiet.org/academy)  
or email [academy@theiet.org](mailto:academy@theiet.org)





# IET GUIDE TO IMPLEMENTING INDUSTRIAL ROBOTS

**Essential reading for all those involved in automating manufacturing processes.**

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. It also sheds light on some of the key issues to consider when evaluating whether or not a business should automate and the processes involved when the decision to automate has been taken.

To download your free copy, please visit our website at:  
**[www.theiet.org/automation](http://www.theiet.org/automation)**



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# DEVELOP SKILLS FOR THE FUTURE

Want to build up the skills and knowledge that you need to remain relevant and progress?  
Take a closer look at what the IET can offer you.

## TRAINING COURSES

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: [www.theiet.org/prof-skills-courses](http://www.theiet.org/prof-skills-courses)

## BOOKS AND JOURNALS

Learn more about areas of manufacturing engineering – or broaden your knowledge of other sectors – by referring to our various journals and books.

**BRAND NEW** IET Collaborative Intelligent Manufacturing is a brand new journal which aims to attract papers on methodologies and techniques for the application of latest technologies within manufacturing.

Find out more: <http://digital-library.theiet.org>

## 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: [www.theiet.org/cpd](http://www.theiet.org/cpd)

## IET STANDARDS

Ensure you're sticking to best practice by referring to our Standards publications. Our range includes good practice guides, codes of practice and guidance on emerging and established technologies.

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

## WIRING REGS

If you're an electrician working in the UK (or in many other countries), you'll need to be sticking to BS 7671.

To get up to speed with the latest standards for electrician installation, order your copy of the 18th Edition IET Wiring Regulations. Familiarise yourself with it using our wealth of resources, including events, training and our free online magazine.

You'll find everything you need at: [www.theiet.org/wiringregs](http://www.theiet.org/wiringregs)

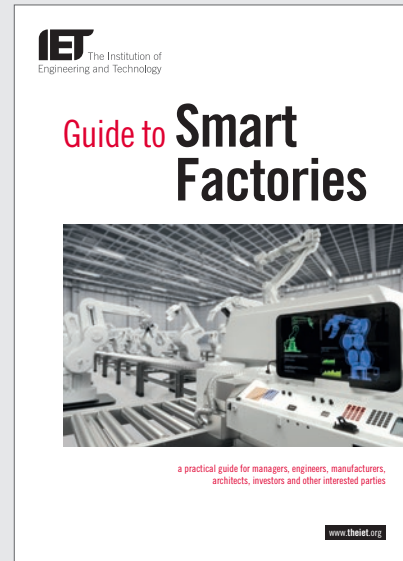


# GUIDE TO SMART FACTORIES

We're planning a publication on smart factories and looking for suitable experts to join us. The new publication will be a practical guide for managers, engineers, manufacturers, architects, investors and other interested parties. It will set out the benefits and opportunities available with emphasis on retrofitting existing manufacturing plants and production lines.

We're looking to bring together a panel of experts to help develop content for the guide. We're also looking for sponsors for the publication too!

Find out more or enquire at: [ietstandardsenquiries@theiet.org](mailto:ietstandardsenquiries@theiet.org)



# BUILD YOUR REPUTATION

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

## THOUGHT LEADERSHIP

Help shape manufacturing policy and practice, by joining one of our thought leadership panels:

- The IET Manufacturing Policy Panel provides advice and evidence to UK Government on manufacturing issues. Current themes include Industrial Strategy, productivity and industry 4.0 / digital transformation of the manufacturing sector.
- The IET Design and Production Sector Executive Committee works with industry and academia to promote manufacturing campaigns, technology adoption and innovation. Current topics include design, sustainable manufacturing and Horizontal Innovation™

Find out more: [www.theiet.org/design-production](http://www.theiet.org/design-production)



## 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! Things you can do:

- Become an assessor, a mentor or Schools' Liaison Officer.
- Meet others who live and work in your area or who share your manufacturing interests.
- Represent the IET on external bodies and organisations.

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



## PROFESSIONAL REGISTRATION

A professional status 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 & Communications Technology Technician (ICT*Tech*).

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

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

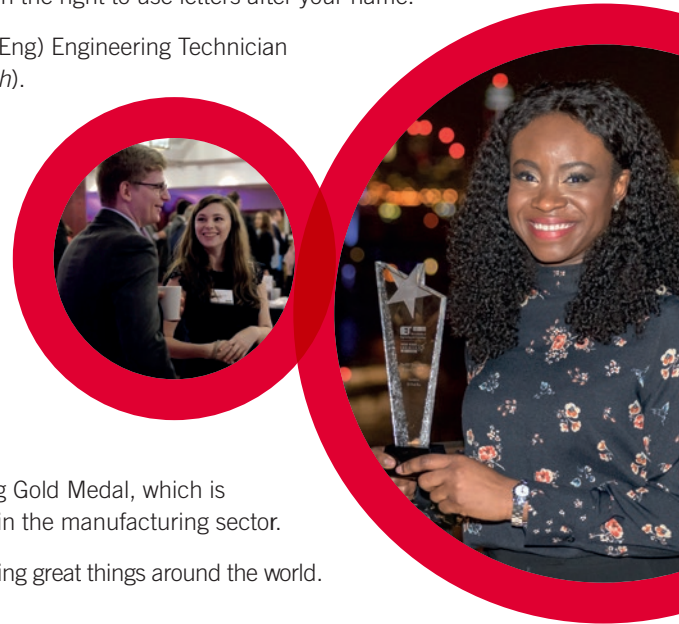
## AWARDS & PRIZES

Whether you're leading a team or you're part of it, gain a reputation for supporting others' development and celebrating their successes.

Consider nominating someone you know for the IET's Mensforth Manufacturing Gold Medal, which is awarded to candidates who have made major and distinguished contributions in the manufacturing sector.

We also offer a variety of other medals and prizes to celebrate professionals achieving great things around the world.

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



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# PASSIONATE ABOUT TECHNOLOGY, PASSIONATE ABOUT MANUFACTURING



Why come to the IET for your knowledge, training and networking needs? We've got a history of engineering excellence and a keen interest in all things IT and communications – so we're working closely with manufacturing engineers to support changes in the industry.

## AUGMENTED & VIRTUAL REALITY

Our work on Applied Visualisation explores the opportunities for embedding AR, VR and advanced visualisation technologies within manufacturing plants and processes.

Find out more: [www.theiet.org/av-event](http://www.theiet.org/av-event)



# APPLIED VISUALISATION EVENT

30 January 2019 | British Motor Museum, Banbury Rd, Gaydon, Warwick CV35 0BJ



The IET in partnership with the High Value Manufacturing Catapult and Immerse UK are organising a one-day conference, workshop and exhibition (now in its third year!).

This is a great opportunity for engineers, manufacturers and industry managers to find out how AR and VR tech are being applied to great effect across industry.

To register your interest in attending, please email your details to: [sep@theiet.org](mailto:sep@theiet.org) adding 'AVF2019' as the subject line.

## SUSTAINABLE MANUFACTURING

We've produced an action plan for *Sustainable Manufacturing – the next steps*, which sets out 37 actions, 13 'must-do' imperatives and five 'core' themes for government, industry and membership organisations.



Focused on saving manufacturers time and money whilst improving resource efficiency and with it, productivity, this practical action plan is currently the subject of industry trials.

If you or your business share an interest in sustainable manufacturing and you'd like to find out more, email: [design-production@theiet.org](mailto:design-production@theiet.org)

# THREE WAYS YOU CAN LEARN MORE AND MOVE FORWARDS... TODAY!



1. Join an **IET community** which will connect you to relevant news, events and people.  
**[www.theiet.org/communities](http://www.theiet.org/communities)**
2. Explore the **IET's volunteering opportunities** to start making an impact on manufacturing engineering - outside of your day job.  
**[www.theiet.org/volunteers](http://www.theiet.org/volunteers)**
3. Become an **IET member** which will give you plenty of opportunities (many free and discounted) to learn and progress.  
**[www.theiet.org/membership](http://www.theiet.org/membership)**

# 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 169,000 engineer and technician members in over 150 countries, 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 to IT and communications, transport and the built environment.



## IET Offices

### London

Savoy Place  
2 Savoy Place  
London  
WC2R 0BL  
United Kingdom  
[www.theiet.org](http://www.theiet.org)

### Stevenage

Michael Faraday House  
Six Hills Way  
Stevenage Herts  
SG1 2AY  
United Kingdom  
**T:** +44 (0)1438 313311  
**F:** +44 (0)1438 765526  
**E:** [postmaster@theiet.org](mailto:postmaster@theiet.org)  
[www.theiet.org](http://www.theiet.org)

### Beijing

Suite 2220  
Beijing Sunflower Tower  
No. 37, Maizidian Street  
Chaoyang District  
Beijing  
China  
**T:** +86 10 6566 4687  
**F:** +86 10 6566 4647  
**E:** [china@theiet.org](mailto:china@theiet.org)  
[www.theiet.org.cn](http://www.theiet.org.cn)

### Hong Kong

4405-06 Cosco Tower  
183 Queen's Road  
Central  
Hong Kong  
**T:** +852 2521 2140  
**F:** +852 2778 1711

### Bangalore

Unit No 405 & 406  
4th Floor, West Wing  
Raheja Towers  
M. G. Road  
Bangalore 560001  
India  
**T:** +91 80 4089 2222  
**E:** [india@theiet.in](mailto:india@theiet.in)  
[www.theiet.in](http://www.theiet.in)

### New Jersey

379 Thornall Street  
Edison NJ 08837  
USA  
**T:** +1 (732) 321 5575  
**F:** +1 (732) 321 5702

## IET Venues

### IET London: Savoy Place

London  
**T:** +44 (0)20 7344 5479  
[www.ietvenues.co.uk/savoyplace](http://www.ietvenues.co.uk/savoyplace)

### IET Birmingham: Austin Court

Birmingham  
**T:** +44 (0)121 600 7500  
[www.ietvenues.co.uk/austincourt](http://www.ietvenues.co.uk/austincourt)

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