

# About the Manufacturing Institute

**The Manufacturing Institute is an independent charity founded by manufacturers for manufacturers. Our aim is to educate, inspire and improve the people and companies who are part of our world-renowned manufacturing industry.**

During the last decade we have helped over 9,000 small manufacturers to improve their productivity and delivered improvements in performance in excess of £1.1bn. We work with many of the UK's largest manufacturers to build operational excellence in some of the world's most effective factories and their supply chains.

The Institute is also the only organisation responsible for introducing the renowned international Shingo Prize Model to manufacturing companies in the UK and Ireland, providing a blueprint for global competitiveness.

All profit created by the organisation's trading subsidiary is returned to the charity and reapplied to projects which improve the image and the understanding of manufacturing, attracting new talent into the sector.

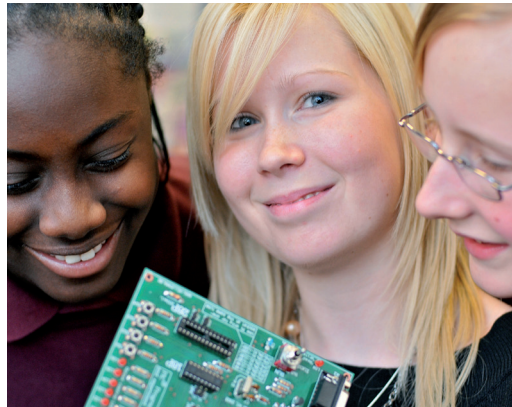
## EDUCATING and Training UK manufacturers

Few organisations can offer such an extensive programme of education and training tailored specifically for manufacturers. Our training provision ranges from NVQs through to MScs with accreditations from prestigious institutions including the Universities of Lancaster, Manchester, Warwick and Cranfield. Our charitable status enables us to offer scholarship grants to learners from SMEs to encourage the introduction of new skills and techniques and to candidates who are funding their own career development.

**50,000**  
People in  
Manufacturing  
Educated

## INSPIRING young talent into manufacturing

The charitable Make It Campaign shows first hand that modern manufacturing is a global enterprise, competing on innovation, creativity and smart thinking. It connects young people to local manufacturers through a series of hands on practical events and enterprise challenges, teacher placements, an extensive and interactive web site for young people and teacher resources for classroom exercises.



Since its launch in 2006 over 30,000 pupils and teachers have taken part in Make It, working with companies including BAE Systems, Siemens, Sellafeld and Jaguar Land Rover Group, as well as a host of smaller companies.

Evaluation shows that young people are twice as likely to consider a career in manufacturing following participation in the programme and many have experienced setting up their own mini-manufacturing businesses as part of Make It Enterprising Challenge days.

[www.makeit.org.uk](http://www.makeit.org.uk)

**MAKE IT**  
IN MANUFACTURING

Since 2006 over  
**30,000**  
young people  
have taken part  
in the Make It  
Campaign

## INSPIRING young talent into manufacturing

### Richard Finch, Make It participant in 2008 and now Modern Apprentice at C-TEC, Wigan

"The Make It event was really influential for me. It sparked my interest in manufacturing and led me to work experience at a local manufacturing company and eventually to my current position as a Modern Apprentice."



### BAE SYSTEMS

"Make It is a great way of getting across the range of positions within a manufacturing company and attracting young people to the industry."



### Rolls-Royce®

"Make It provides a great interaction for young people and our company. The ideas from the students involved are amazing."

### SIEMENS

"Make It is a very effective way to engage and enthuse young people in careers in manufacturing and encourage them to make informed decisions on the subjects they choose to study."



## IMPROVING Creativity and innovation

Working closely with the Massachusetts Institute of Technology we are developing a network of Fab Labs across the UK. The UK's first Fab Lab is based in Manchester and offers businesses of all sizes the opportunity to develop and make prototypes for new product ideas.

Alongside the equipment, the Fab Lab staff will help by adding their expertise in a variety of disciplines. From 3D designs, precision laser cutters and 3D digital printers to accurate moulding and milling equipment, the Fab Lab contains everything required to produce accurate 3D models and prototypes of all descriptions. The facility is used by small businesses, inventors, community groups, schools and even local artists.

Products conceived with the help of Fab Lab Manchester include;

**Matt King - Crackit Bat** Warrington Wolves Rugby League player and Australian International Matt King hit upon the idea for his 'Crackit Bat' - a cross between a tennis racket and cricket bat - while playing beach cricket in his native Australia. Fab Lab developed the idea and prototype which is now in production.

**The Toric Marker** An NHS clinical innovation proposed by an ophthalmic surgeon in connection with corneal astigmatism, taken to prototype by Fab Lab, produced by TrustTech, the NHS innovators, and now being sold commercially.

**Tayyeb Sheikh aged 11, Manchester** has invented a toothbrush with an inbuilt MP3 player. He is also looking at an alternative version with pressure sensitive bristles - aimed at the travel market and small children market to encourage them to clean their teeth more thoroughly.

**"I can only thank Fab Lab for helping me out and finding such a simple, yet creative solution to the problem."**

Mike Smith,  
Managing Director "It's Unique"



Since opening in  
March 2010

**3,000**

people have used  
the Manchester  
Fab Lab including

**511** Schoolchildren

**62** community group  
members

**142** manufacturers

Over **30** commercial projects  
have also been  
supported

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

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[www.manufacturinginstitute.co.uk](http://www.manufacturinginstitute.co.uk)

EDUCATE

INSPIRE

IMPROVE