

# Innovation Placement Projects at the Manufacturing Technology Centre (MTC)

# Opportunities

- ▶ We have a project available with MTC Training services to analyse the skills required for ERA (Energy Research Accelerator) and tomorrows Energy Sector.
- ▶ This will give the student an opportunity to work within a Catapult RTO (Research and Technology Organisation), which comprises training experts, engineers, physicists and business experts at the cutting edge of innovative manufacturing solutions.
- ▶ In total UK industry is suffering a shortfall of 60,000 engineers and the energy sector alone is in need of 14,000 skilled employees. The government is funding STEPs (a £220M project) in the Fusion energy sector, but skilled workers are required if we are to achieve an energy positive fusion reactor by 2040. Identifying skills gap and then providing training to fill these gaps in the workforce is of vital importance to the success of the future energy and engineering sectors. Working in this environment you will gain invaluable customer engagement skills and analytical techniques.
- ▶ Location: The work will be based at the MTC hub in Coventry, but may require travel to MTC spokes and national innovation sites, such as Harwell/Culham and Daresbury.



# The Project

## Description

This project will involve, firstly mapping the skills and industries common to ERA and the MTC. The skills gaps will then be analysed. Next, a study of the skills required for the future energy sector will be undertaken. This will involve customer/stakeholder engagement to identify skills gaps and needs, an internet/literally research to identify any current local or national training solutions. Lastly, your findings will be summarised in a report.

You will be supervised by Senior Curriculum Designer, Dr. Catherine Scholey who has a background in Nuclear Physics R&D, in addition to training.

## Learning and Skills Development:

Customer Engagement, Communication skills, Market research, Analytical Techniques, Commercial Report Writing.

The project has a duration of 3 months (max).

# The MTC & HVM Catapult

The High Value Manufacturing Catapult was formed in 2010 and consists of 7 centres across the UK covering all areas of manufacturing and the energy sector. The aim of the Catapult is to bridge the gap between academia and industry, in order to grow and then drive innovative ideas out of academia and into industry. Supporting the ideas are people and the MTC develops training around emerging and new technologies to seed industry with a pipeline of future talent.

The MTC started with 10 employees grossing £160k in its first year (2010). Since then, it has expanded to over 800 staff and grossed £72M in 2018. The expansion has been across engineering, business development and training in the sectors of Aerospace, Automotive, Construction and Infrastructure, Electronics and Computing, Energy, Food and Drink, Medical Devices, Military and Defence, Oil & Gas and Pharmaceutical/Biotechnology. The MTC is the centre of excellence for additive manufacturing and the NDT (non-destructive testing) experts support the advancements of this technology into industry whilst the training department develops future talent to work with the technology in industry.

