

ESRC Placement Project at the Manufacturing Technology Centre (MTC)

Organisation's Name: Manufacturing Technology Centre (MTC)

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The Manufacturing Technology Centre (MTC) develops and proves innovative manufacturing processes and technologies in an agile, low risk environment, in partnership with industry, academia and other institutions. The MTC focuses on delivering bespoke manufacturing system solutions to their customers. The training services department of the MTC concentrates on foresighting future skills requirements and developing training for emerging technologies.



Project: An investigation of data analysis methodologies applicable to the skills mapping process

Main tasks/duties:

- Working as part of a small team (the 'Future Skills' team) to assist in the development of data analysis tools and processes.
- Assisting on current projects by researching relevant topics, undertaking literature reviews, attending project meetings and contributing ideas to help develop and refine the data analysis **capability of the Future Skills team.**

Learning and Skills Development:

The researcher will be encouraged to explore how they can apply their existing qualitative analysis skills and experience to the skills mapping process within the MTC training department Future Skills team.

Essential requirements:

Experience of analysing qualitative data and summarising findings in a manner appropriate to both technical and non-technical audiences.

Location: Due to current Covid restrictions, it is envisaged that this 3month placement will be mainly home-based.

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.

