

Research Centre for Manufacturing and Materials (CMM) & Institute For Advanced Manufacturing and Engineering (AME)

"The UK's first faculty in the factory floor"

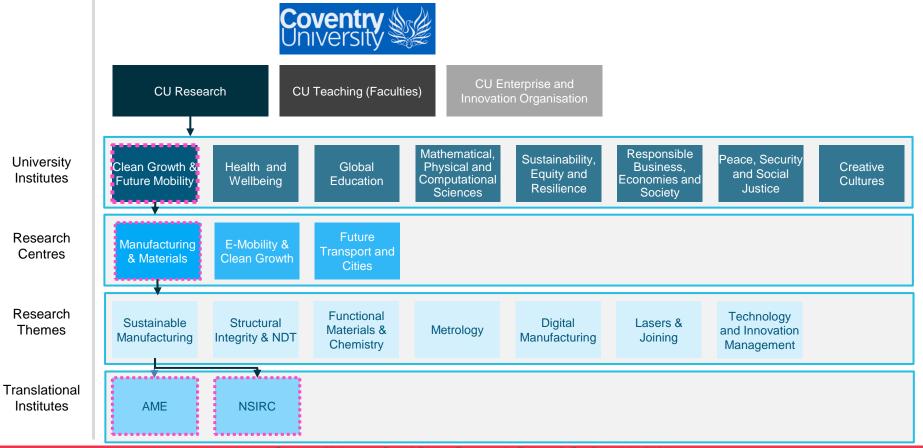
Research Centre Manufacturing and Materials



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Research Centre for Manufacturing and Materials and the AME as Part of Coventry University's Research Structure





Institute Clean Growth and Future Mobility

"Creating safe and sustainable transport solutions fit for the cities of the future"



The Institute for Advanced Manufacturing and Engineering Model













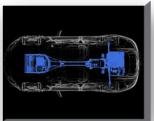
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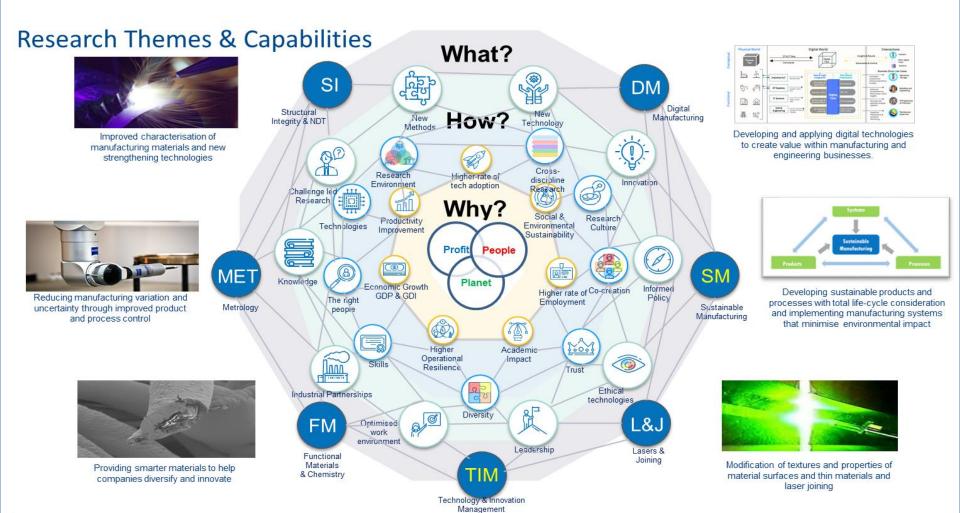


Business Growth









Areas of Expertise and Capability provide by Coventry University to support the Clean Futures Project



The AME was built and equipped by the two principal partners with additional financial support from the Higher Education Funding Council England and opened in 2014 offering 2000 m2 of purpose built manufacturing and teaching space. The AME's manufacturing hub, equipped with state-of-the-art facilities and laboratories including:

- Materials Laboratory;
- Metallurgy Laboratory;
- Sensors Laboratory;
- Metrology Laboratory;
- Robotic automation training area;
- Laser Manufacturing Systems;
- Rapid Prototyping Area;
- Functional Materials and Chemistry Laboratory;
- Laser Processing Laboratory; and
- State of the Art Digital Manufacturing and Engineering demonstrator.

Areas of Expertise and Capability provide by Coventry University to support the Clean Futures Project



1- Clean Technology Capabilities

- E-machine design and test capability (measurement systems development)
- Fuel cells / electrolysis capability and measurement systems development
- Battery module/pack manufacturing and testing
- Design/DFM / DFR&R
- Technology Know-how
- Wire EDM
- Metrology laboratories
- Lasers
- Design and testing Software / Simulation
- Digital twins
- Testing capability (Metallurgy, Mechanical...)

2. Sustainability Technologies and Approaches

- By-product utilisation
- Fuel switching
- End of life
- Material selection (LCA perspective)
- Additional engineering services (second stage engineering/sustainability engineering)
- Material and manufacturing efficiency

3. Technical Consulting

- Life-cycle analysis
- Carbon Accounting
- Technology and transformation roadmaps
- Digital engineering and manufacturing technologies and methods
- Sustainable manufacturing technologies
- Clean mobility technologies
- Socio-economic analysis methods

Thank you for your time!

Want to get involved? Contact us to find out more.....

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