

Elite Centre for Manufacturing Skills

Dr Manpreet Singh – Mr Trevor Codner



Black Country LEP



Building Growth with





ECMS House Keeping















£11m grant from local growth fund (LEP) ending May 2025

Building Growth with

- Upskilling UK's high value manufacturing sector with any industry or sector, nationally.
- Address skills gap in the manufacturing sector
- ECMS staff are employed by FSE, largely by HEIF.



Key existing facilities

- EOS M270
- EOS M290
- Stereolithography
- Melt-pool Monitoring
- Powder characterization
- State of the art in composites autoclave
- Five axis high speed machining
- State of the art wind tunnel, subsonic and supersonic
- Microscopy
- SEM, EDS, XRD
- X-Ray nano-CT
- Material testing
- 3D Scan
- Thermal analysis

AMFM lab, Telford Innovation Campus, University of Wolverhampton TF29NT, UK

New UK Additive Manufacturing Centre of Excellence and spin out launched

23/04/2024

Advanced processes and materials, such as beam shaping and copper, will aid knowledge exchange and enable new design and manufacturing innovations across sectors.

The University of Wolverhampton and 3D printing global leaders EOS, and AMCM, have joined forces to launch a new UK Centre of Excellence for Additive Manufacturing (AM).

The partnership will provide access to cutting-edge technology from EOS and AMCM and specialise in the development of advanced materials and processes for demanding applications within industries such as space, automotive, aerospace, electronics, and quantum computing.

Partially funded by the UK's Regional Innovation Fund (RIF), The centre will be based in the Elite Centre for Manufacturing Skills (ECMS) at the University of Wolverhampton's Springfield Campus.



The centre will be a hub for knowledge exchange and research commercialisation activities, catering for local, regional, and global customers in a wide range of sectors.

Addressing industry hunger for AM innovation

The University of Wolverhampton's Additive Manufacturing Research Group and its spin off company, Additive Analytics, will lead material and process development activities. Industries ranging from automotive and electronics to quantum computing and aerospace are already expressing interest, highlighting the broad applicability of copper AM for thermal management and electrification, due to its exceptional thermal and electrical properties.

GEMM Phase 1: Implementation (Springfield ECMS) EOS Copper Lighthouse

EOS are the global leading metal additive manufacturing machine OEM.

They have identified a demand and skills gap in the UK and Northern Europe for copper 3D printing activities.

They have identified UoW as a strategic partner to set up a lighthouse company to serve their customer base.





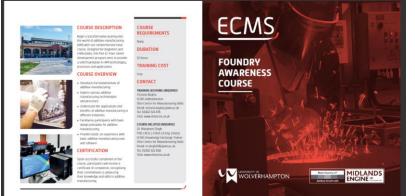
Lighthouse activities

- Commercial circa £100,000 p/a (year 5)
- IP licensing circa £50,000 p/a (year 3)
- Material sales circa £150,000 p/a (year 5)
- Consultancy circa £50,000 p/a (year 3)
- Total circa £350,000 p/a (year 5)



GEMM Phase 1: CPD





https://issuu.com/universityofwolverhampton/docs/ecms_cpd_course_flyers





Thanks