INSPIRING

Great British Manufacturing
WHO WE ARE

WHAT WE DO
BACKGROUND

- Opened in 2011
- Independent RTO
- To bridge the valley of death
- Prove innovative manufacturing ideas
- Manufacturing system solutions
- Training
BRIDGING THE VALLEY OF DEATH

MTC FOCUS

Experimental research  Applied research  Technology implementation

RESEARCH AND DEVELOPMENT

TRL 1  TRL 2  TRL 3  TRL 4  TRL 5  TRL 6  TRL 7  TRL 8  TRL 9

UNIVERSITIES  VALLEY OF DEATH  INDUSTRY
OUR MARKETS

Aerospace

Automotive

Construction and Infrastructure

Electronics and Computing

Energy

Food and Drink

Military and Defence

Oil and Gas
THE MTC APPROACH

ONE to ONE
Single client project

Government backed collaborative R&D projects

MEMBERSHIP
Collaborative R&D project funded by members
TIER 1

- Five year commitment
- Access to research outputs across all themes
- Programme board seat (with voting rights)
- TAB board seat (with voting rights)
TIER 2

- Three year commitment
- Access to research outputs within two themes
- Programme board seat (with no voting rights)
- TAB board seat (with voting rights)
TIER 3

- One year commitment
- Opportunity to get engaged in collaborative projects
- Opportunity to engage with major OEMs and other members
WHO WE ARE

WHAT WE DO
WE WILL CONTINUALLY WORK TO:

1. Accelerate the UK’s industrial growth
2. Deliver innovation
3. Change the way businesses compete
4. Create and embed future skills
5. Maximise synergies within supply chains
STRENGTHEN THE UK’S GLOBAL POSITION AND EXPORT POTENTIAL

- Improve productivity
- Invest more in R&D
- Address the skills gap
- Develop new market opportunities
- Implement new technologies
INDUSTRY CHALLENGES

- **You want to make something**
  - at a lower cost
  - better quality
  - quicker
  - in higher volume
  - you’ve never made before

- **You want to assemble something to**
  - minimise reject rate
  - improve reliability
  - improve consistency
  - reduce waste
  - reduce errors

- **You want to use data more effectively for**
  - improved design
  - better quality
  - efficient logistics
  - new business models
MANUFACTURING INNOVATION

Component Manufacturing
- Additive Manufacturing
- Electronics Manufacturing
- High Integrity Fabrication

Assembly Systems
- Advanced Tooling and Fixturing
- Non-Conventional Machining
- Robotics and Autonomous Systems

Data Systems
- Design and Simulation
- Manufacturing Informatics
- Metrology and NDT
MANUFACTURING OPERATIONAL EFFICIENCY

- Improving operational efficiency
- Launching new businesses
- SME REACH programme
TRAINING AND DEVELOPMENT

Advanced engineering apprenticeship

Seeding UK employers

Engineer upskilling
SEEDING UK EMPLOYERS

- Unique programme, reducing risk of:
  - Recruiting
  - Training
  - Employing
- Committed to developing engineering careers
- Business-ready apprentices, skills to make immediate impact
- Supporting future business aspirations