



## CIRCULAR ECONOMY GROUP



### THE CIRCULAR ECONOMY

Minimising resource usage, waste, emissions and energy leakage through improved design, maintenance, repair, reuse, remanufacturing, refurbishing, and recycling.

- > Material Recovery
- > Life Cycle Assessment
- > Carbon Footprinting
- > Industrial Symbiosis
- > Material Valorisation

## INDUSTRIAL DECARBONISATION GROUP



### INDUSTRIAL DECARBONISATION

Lowering fuels bills and carbon emissions through efficiency, innovation, and fuel transitions.

- > Energy Efficiency and Heat Recovery
- > Decarbonisation Roadmapping and Reporting
- > Fuel Switch De-risking
- > CFD Furnace Modelling for Hydrogen or Electric Heating Transitions
- > Pilot Innovation Space

## DIGITAL TECHNOLOGIES GROUP



### DIGITAL TECHNOLOGIES

Utilising digital technologies to optimise industrial processes and develop advanced materials.

- > Process Audits
- > Data Collection
- > 3D Scanning
- > Sensor Development
- > Industrial Internet of Things
- > Digital Twins
- > Machine Learning Models
- > Augmented Reality

## ADVANCED MATERIALS GROUP



### ADVANCED MATERIALS

Developing advanced materials and researching how new and innovative materials can be used more efficiently and effectively.

- > Materials Development
- > Materials Characterisation
- > Non-Routine Analysis
- > Powder Metals and Additive Manufacturing
- > Geopolymers and Sustainable Cements
- > Fusion Materials and Testing







## PRISM is a Programme of Research and Innovation for the UK Steel and Metals Sector

Improving the competitiveness of the steel and metals sector by providing funding through the Materials Processing Institute for research and innovation services in the areas of:

- > Transition to a Low Carbon Economy
- > Digitalisation
- > Circular Economy in Metals

Contact the Materials Processing Institute to find out about accessing matched funding for collaborative or private projects