

MPIUK

Materials Processing Institute Middlesbrough, United Kingdom



ABOUT

The Materials Processing Institute is a not-for-profit research and innovation centre, globally recognised for the development and commercialisation of technology. Research is focussed on developing new advanced materials and processes, achieving a zero carbon and hydrogen future, deploying new digital technologies and reducing waste through a circular economy.

The Institute supports clients to develop and commercialise innovations through integrated research programmes and collaborations. This support ranges from early-stage scientific development, through to the design, construction and operation of large-scale demonstration assets developed utilising laboratory desktop research through to large scale pilot facilities. Advanced technology management tools are used to support client technology portfolios and the Institute has been delivering complex multi-partner research and innovation programmes for over 75 years.

EXPERTISE

The Materials Processing Institute has a long and successful track record in research and innovation. The Institute supports innovation through the development and commercialisation of technology; this is delivered by scientists, engineers, and project teams with expertise in materials science, using state-of-the-art equipment, laboratories, workshops, demonstration, simulation, scale-up, pilot and production facilities.

Expertise extends to:

- Experimental and Computer Modelling
- Thermodynamics
- Instrumentation and Control
- Materials Microscopy
- High Temperature Materials
- Chemical Analysis
- Materials Testing

FACILITIES & EQUIPMENT

Materials and process research is focussed on steel, metals, ceramics, glass and natural materials. By drawing on core Institute expertise in metallurgy, thermo-fluid dynamics and engineering, new technologies are developed to increase yield and improve the quality of materials and processes.

Products and services provided aim to support materials and process enhancement.

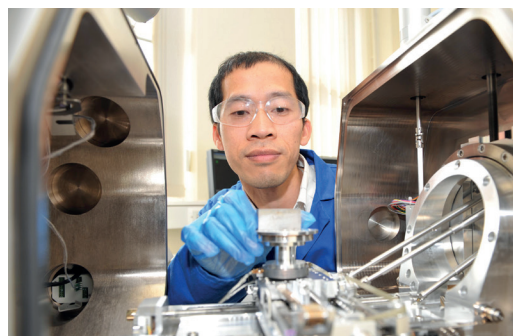
Research Services - Private and collaborative research programmes and specialist testing

Consultancy - Technical due diligence, market studies, mergers and acquisitions support and capex support

Training - In-depth courses based on the major technologies currently in global operation

Steel Industry Services - The Institute has an extensive track record of delivering product and process innovation and creating efficiencies through improved materials, processes and quality. Iron and steel services include research, consultancy, technical support, training, pilot and up-scaling.

Specialist Melting - The Normanton Plant provides steel alloys and revert melting services. Specialist steels are available for sectors such as nuclear, defence, offshore, aerospace, automotive and engineering. The commercial production of steel alloys draws on decades of experience in developing new and unconventional steels and the steel processing expertise of the Institute.



MORE INFORMATION

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