

HENRY ROYCE INSTITUTE: National leadership, International impact

28/09/2017

HENRY · · · ·
ROYCE · · · ·
INSTITUTE

OUR MISSION

“The Henry Royce Institute will be an international flagship for the accelerated discovery and development of materials systems.

“We will invest in the UK's world-leading materials science research capability to stimulate commercial collaborations, generate societal benefits, and deliver positive economic impact for the UK.”



AIMS & OBJECTIVES

Our research has the potential to have a significant impact on the world around us.

Royce will be a focal point, nationally and internationally, for people to come and learn about materials science and develop it into a major economic force.

Collaboration between world-leading researchers and world-leading companies will see real solutions, driven by research and making a fundamental difference to the UK economy.



THEMES



THEMATIC AREAS

Within these sectors, Royce will focus initially on **nine key areas of materials research**, critical areas to underpin the government's Industrial Strategy, boosting growth throughout the UK and powering international impact.

These nine key areas of research can be channeled through two main categories:

DISCOVERING NEW MATERIALS:

- From Atoms to Devices
- Exploiting 2D Materials
- Advanced Metals Processing
- Chemical Materials Design

MATERIALS FOR:

- Energy Storage
- Energy Efficient ICT Devices
- Demanding Environments
- Nuclear
- Biomedical materials



WHO WE ARE

The Royce brings together 900 world-leading academics from across the UK, and works closely with industry to ensure commercialisation of fundamental research.

The Institute will have its hub at The University of Manchester, with spokes at the founding partners, comprising the universities of Sheffield, Leeds, Liverpool, Cambridge, Oxford and Imperial College London, as well as UKAEA and NNL.



WORKING TOGETHER

Each founding partner is expected to:

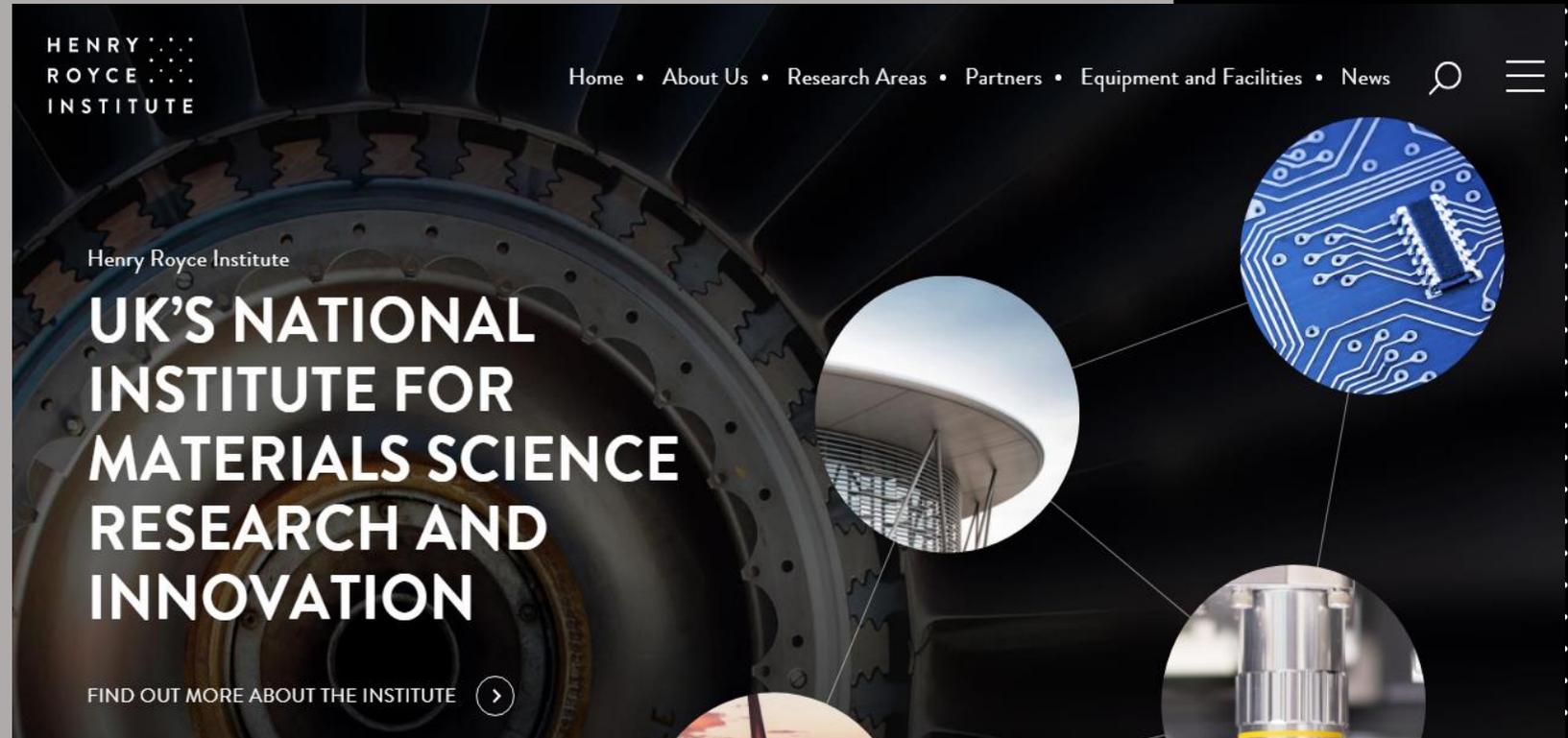
- act as champions in support of the wider academic community in their chosen subject area
- design and drive a strategic plan that is owned by this wider community
- make **equipment and facilities accessible to both industry and academia.**
- collectively promote the Royce brand as a national institute for advanced materials - with key objective of **fast-tracking discoveries to applications**



SINGLE POINT OF CONTACT

Dedicated Royce website acts as one-stop shop for Royce's customers

Showcase for brand identity and platform for Royce's national voice



www.royce.ac.uk

SHARED RESOURCES

Already 70+ pages dedicated to profiling Royce equipment and facilities.

Partners have 2 or 3 year plans to procure specialist kit or create flagship facilities to support world-leading research.

Shared resource for both business (corporate and SMEs) and UK's academic community.

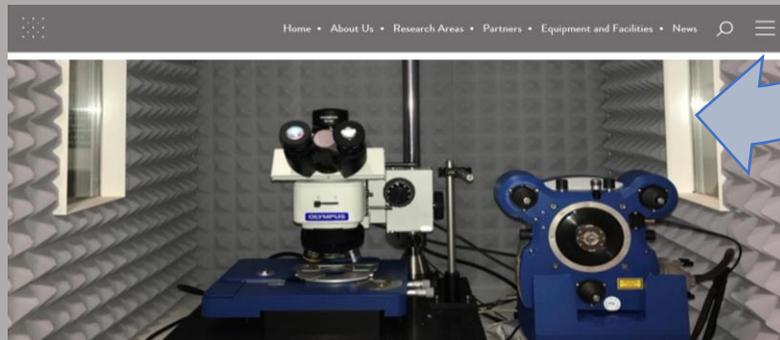
Home • About Us • Research Areas • Partners • Equipment and Facilities • News

Introduction | Partner | **Equipment & Facilities** | Case Study

ATOMIC FORCE MICROSCOPE (AFM) WITH IN-SITU ANALYSIS
—
University of Manchester

SCANNING ELECTRO-CHEMICAL MICROSCOPE (SECM) WITH IN-SITU ANALYSIS
—
University of Manchester

THIN FILM X-RAY DIFFRACTION (XRD)
—
University of Manchester



PEOPLE



PEOPLE

Royce has some of the UK's foremost academics leading world-class materials research, led by Chief Scientist **Professor Philip Withers** – one of the UK's leading materials scientists.

Overseeing the project as independent Chair is **Baroness Brown**, the former Vice-Chancellor of Aston University and a leading expert on education and technology in engineering. The CEO is **Dr Andrew Hosty**, who has more than 25 years' experience of the commercial sector in materials.



ROYCE @ MANCHESTER

£105m building is at the heart of Manchester's engineering campus – including the National Graphene Institute.

It will house world-class research and commercialisation of advanced materials.

Set to open in 2020, the 16,000 square-metre building will house world-leading materials scientists, state-of-the-art equipment and collaborative space for industrial and academic engagement.

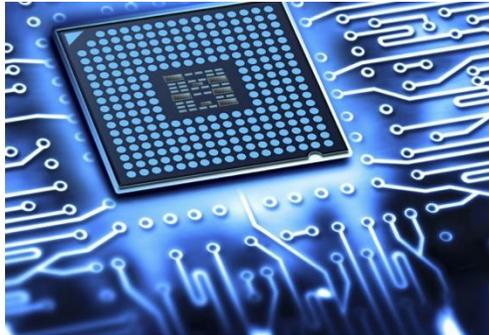


ENGAGEMENT

For enquiries, please contact:

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THANK YOU

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