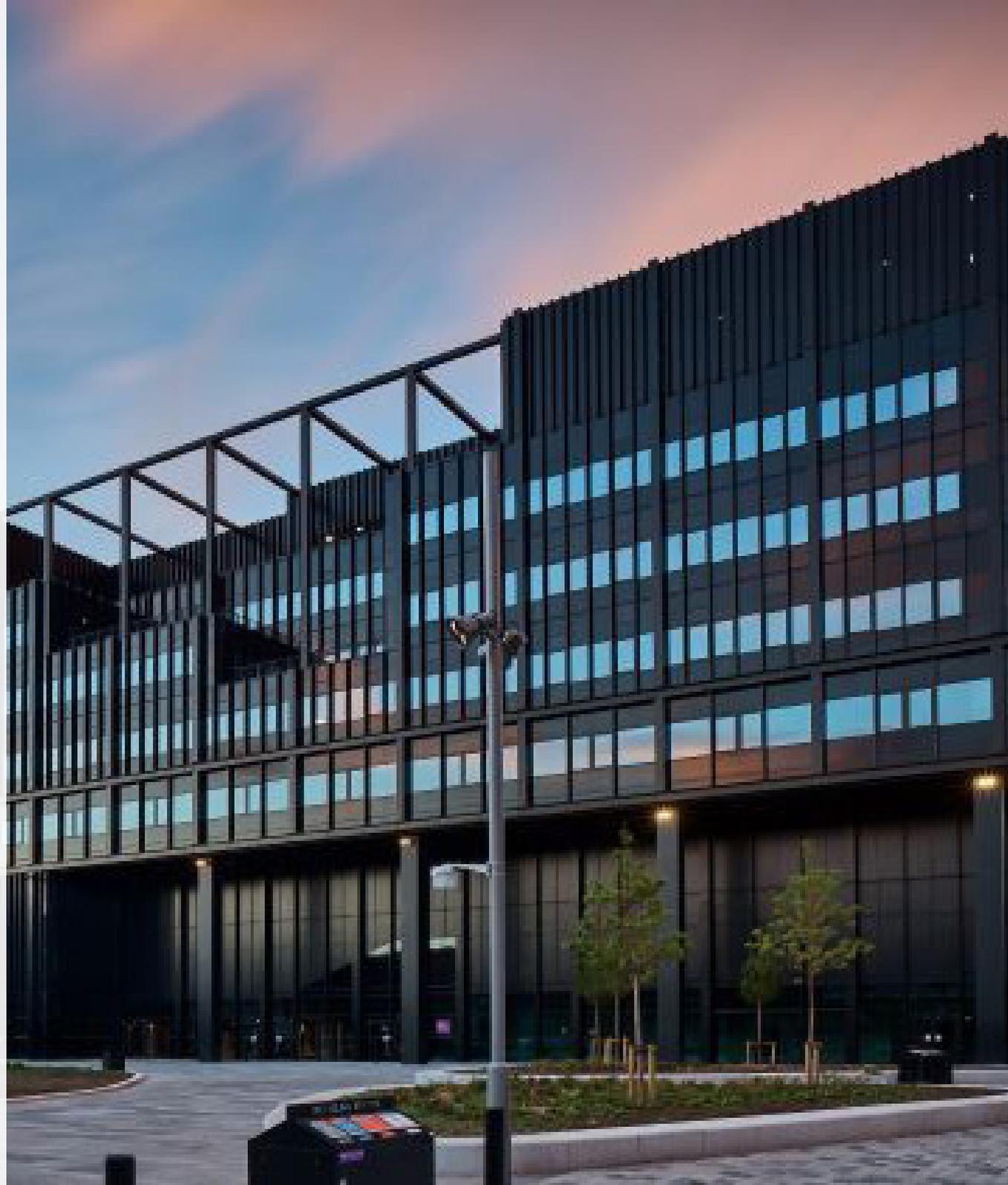


Enabling sustainable research

The £420m Manchester Engineering Campus Development is the UK's largest educational construction project. The BMS system and environmental services integrated by OCS help control energy use and reduce greenhouse gas emissions.



by Honeywell



Background

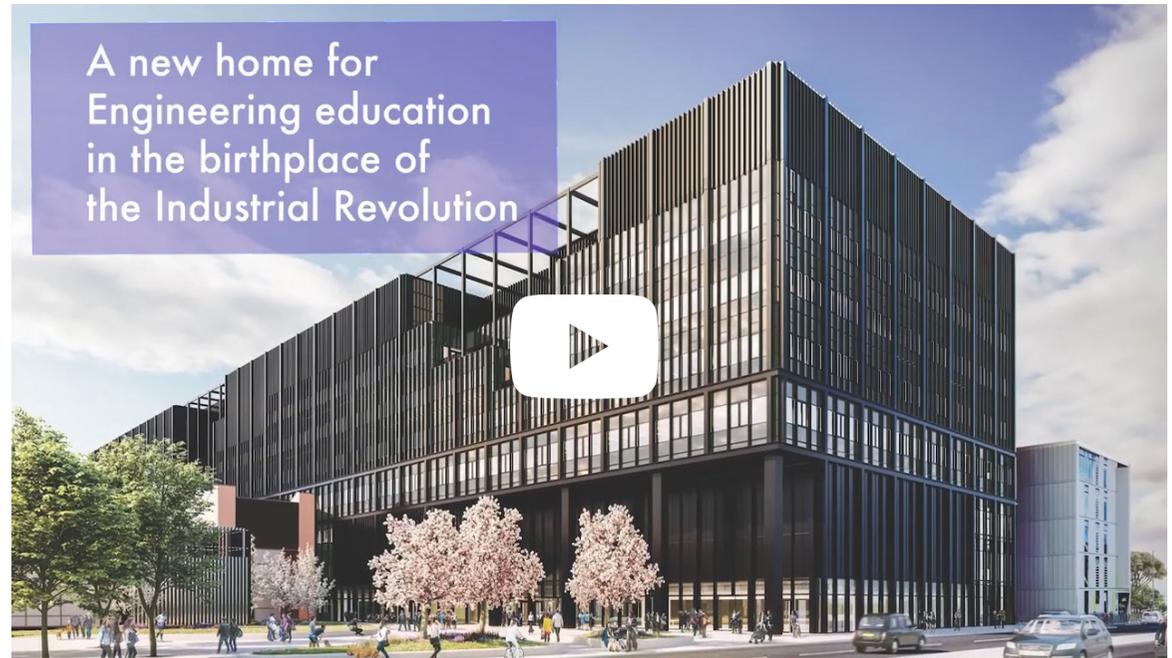
Manchester Engineering Campus Development (MECD) is the single largest construction project ever undertaken by a higher education institution in the UK. The world-leading development brings together all of the University of Manchester's engineering schools into one place.

The impressive eight-storey main building has a total floorspace of around 11 football pitches, filled with a mixture of high-tech laboratories and clean rooms, lecture theatres, teaching and learning rooms, and office spaces. Once complete, it will house 8,000 students and staff.

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“MECD is inherently energy efficient and zero carbon ready. ‘Ready’ means ready to be transitioned towards using renewable technologies when technology becomes more mature in the coming years.”

Dr Mei Ren, Environmental Sustainability Advisor to MECD, Buro Happold Engineering



Discover The University of Manchester's new engineering campus.

Achieving Net Zero

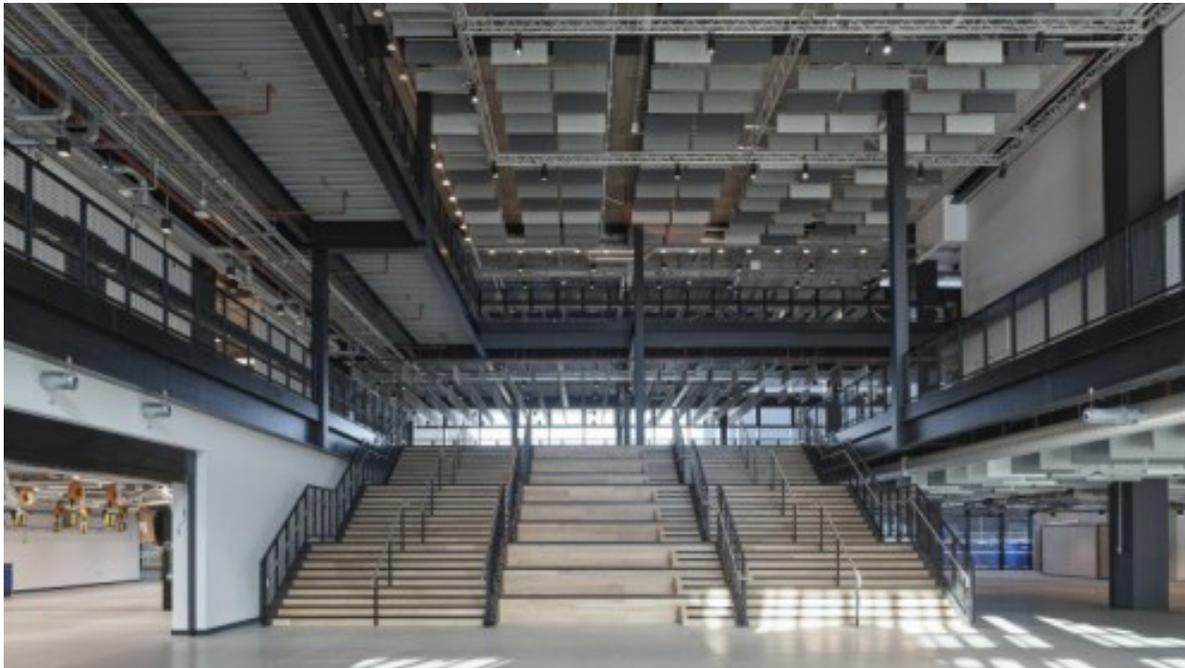
The University of Manchester is developing a zero carbon pathway to transition its entire campus to net zero by 2038. MECD includes numerous energy-saving measures and even has a specially appointed Environmental Sustainability Advisor to set performance targets that are reviewed and monitored throughout its lifecycle.

Our role

OCS were the lead System Integrator & Controls Specialists responsible for the Building Energy Management System (BEMS) and process extract systems at MECD. As experts in integration and connectivity, OCS set up and collated information of over 15,000 points from 3rd party systems such as the Room and Lighting Controls, Coherent Metering System, Strobic Extract, Chillers and the Combined Heat and Power (CHP) System and configured them in the common graphical user interface ARENA NX.

The multi million pound project integrates 11,000 main plant points, 16,000 field points, 18 plantrooms and 46 air handling units connected with Honeywell HAWK controllers utilising the powerful Niagara platform.

This allows the University to control and manage all of its environmental systems from one common point. Email alarms are in place across all systems to allow immediate response if any problems occur.



MECD will house the largest concentration of interdisciplinary engineering expertise in any UK university.

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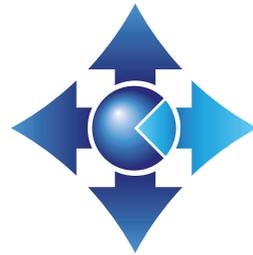
“MECD is an extremely complex development, with lots of different environments used by thousands of people that all need to be managed as efficiently as possible. It is the biggest project OCS have ever been involved in and we are proud to be playing a role in helping the University of Manchester to make progress towards its zero carbon goal.”

Paul Goucher, Managing Director, OCS

Next steps

OCS continues to work with the University of Manchester to ensure that their working and learning environments are optimised and working efficiently. The team remain committed to supporting COVID-safe facilities by means of efficient space utilisation.

For more information on this project, please contact:



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