Brunel University London

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About us

• **Brunel University London** - A public research university located in London with a total income of circa £200M of which 25% came from grants and research contracts. Brunel’s Product Design Engineering degrees are some of the most renowned and respected in Europe and our students and graduates have won many national and international design awards.

• **ISO/TC261** provides standardization in the field of Additive Manufacturing (AM) concerning processes, terms, process chains (Hard and Software), test procedures, quality parameters, supply agreements and other fundamentals to support a consumer market and the global industry.

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### What can we offer?
- Specialised knowledge in Additive Manufacturing, including Applications and Design of Experiments
- Connect with multi-disciplinary, inter-departmental network with experts and technical staff
- Access to specific workshops and laboratories
- Knowledge of standards & guidelines through the BSI and ISO national bodies

### What or who we are seeking?
- Industrial companies working in 5G or logistics and wish to develop 5G-enabled Material Extrusion Additive Manufacturing systems to demonstrate potential 5G use cases

### What’s our idea?
- To develop a “Solution-based” additive manufacturing system with 5G connectivity to actively monitor and control the manufacturing process.
- To include automation in the pre- and post-production process in material supply and finishing, using robotic technologies to support autonomous operations.
- To incorporate sensors to connect with the entire manufacturing chain and capture real-time information.
- To translate manufacturing data into useful information for real-time decision making.

### What’s the market opportunity?
- Industrial internet solutions for manufacturing expect additional momentum going forward
- Digitising processes and value chains will ride on the wave of Industry 4.0 + 5G
- Digital solutions and connectivity will create greater customer benefits
- Potential to use the university as a test-bed and for greater publicity and marketing

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