TURNING QUANTUM DREAMS INTO TOMORROW’S MATERIALS

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WHAT? The building blocks of every new technology are materials with suitable properties. Chemistry is the science of making materials, and so is posed a grand challenge by the advent of quantum technology. To meet it, we are establishing the chemistry of quantum materials.

WHY? A cornerstone of quantum technology is entanglement – “spooky action at a distance”. We want to find the materials that allow that principle to be made practical.

HOW? Developing new chemistry to control properties through synthesis;
Pioneering world-leading structural characterisation methods, in partnership with the STFC ISIS Neutron and Muon Source;
Employing state-of-the-art cryogenic measurements to find stable QSL states;
And improving understanding of quantum materials, thus ushering in the Quantum Age.

WE ARE:

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