



Science and
Technology
Facilities Council

ISIS Neutron and
Muon Source

Introduction

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ISIS Neutron and Muon Source

About ISIS

The ISIS Neutron and Muon Source is a world leading centre for research at the STFC Rutherford Appleton Laboratory near Oxford.

Our suite of neutron and muon instruments gives unique insights into the properties of materials on the atomic scale, using techniques such as scattering, diffraction and spectrometry.

We are part of the global research infrastructure, providing tools for almost 1700 scientists a year to use our suite of 34 instruments.

ISIS neutron and muon instruments are free at the point of access for both academic and industrial researchers, provided the results from experiments are published in the public domain.



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About Me

I work as an Electrical Engineer within the Magnet Power Supply Group at ISIS. We are responsible for development and operation of the power converters used to supply the magnets on the synchrotron. This includes DC, AC and pulse power depending on the function the magnet performs.

I graduated with a MEng in electrical and electronic engineering in 2020 from the university of Manchester, after which I joined ISIS Neutron and Muon Source. I work on the development of pulse power systems for use in my group and throughout ISIS.

I am also studying for a PhD researching replacement semiconductor devices for our thyatron extract kicker power supply. This is based at the University of Warwick, supervised by Richard McMahon and Li Ran, with Jonny Ranner as my industrial supervisor.

