### Webinar for Indonesian and Malaysian Researchers





## How to write a good proposal for the ISIS Neutron and Muon Source

Time - UK	Time - Jakarta	Time - Kuala Lumpur	Talk title
08.00	15.00	16.00	Introduction – Philip King
08.05	15.05	16.05	Funding for Malaysian and Indonesian researchers – Philip King
08.15	15.15	16.15	Short guide to getting access to ISIS – Emma Gozzard
08.25	15.25	16.25	How to write a good proposal for ISIS – Vicky Garcia-Sakai
09.00	16.00	17.00	Discussion on example proposals in breakout rooms
09.15	16.15	17.15	Feedback on example proposals
09.30	16.30	17.30	Q&A on proposal writing
09.50	16.50	17.50	Final comments and close





# Funding for Malaysian and Indonesian researchers

Philip King
Associate Director, Partnerships & Programmes
ISIS Neutron & Muon Source

Indonesia & Malaysia webinar 5 March 2025

ISIS Neutron and

**Muon Source** 









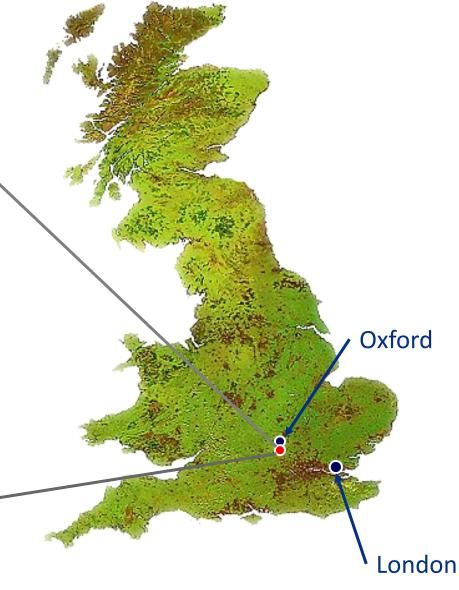




### Where is the ISIS Neutron and Muon Source?

Rutherford Appleton Laboratory, UK

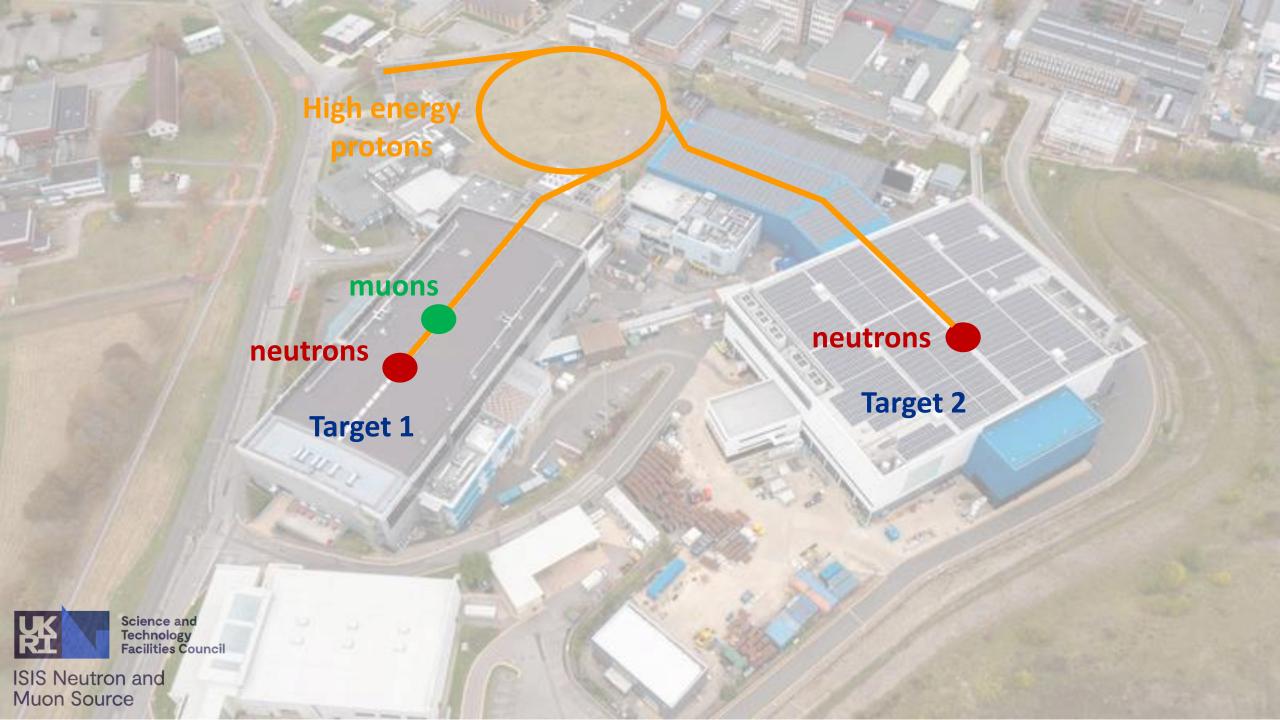












#### 2. The ISIS Neutron and Muon Source

#### ISIS instrument suite

#### 35 instruments:

Structure

Diffraction

Disordered materials

Small angle scattering

Reflectometry

#### **Dynamics**

Quasi-elastic scattering

Inelastic scattering (excitations)

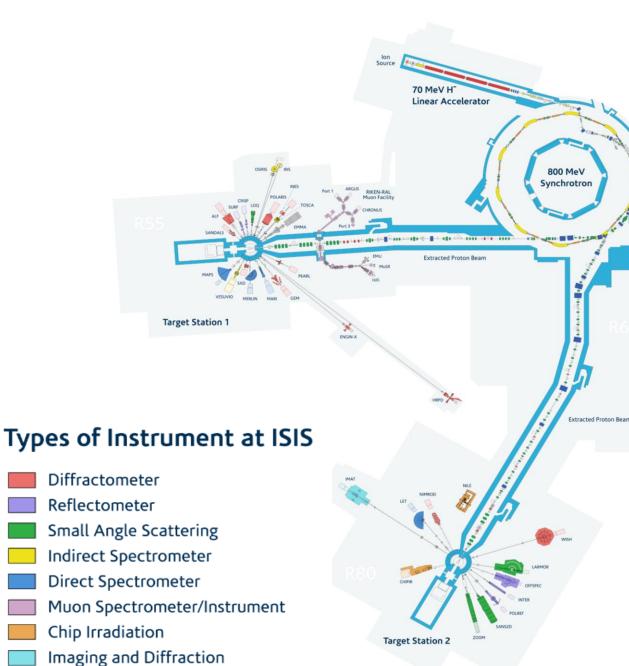
Vibrational spectroscopy

Neutron imaging

Chip irradiation

Muons



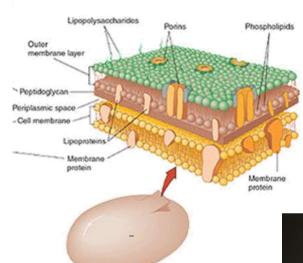




#### **Science at ISIS**

Exploring antimicrobial resistance

Gram Negative

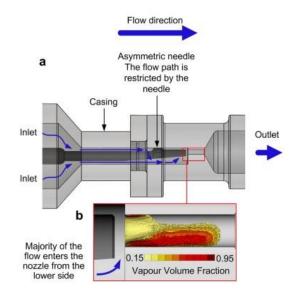


Formation of plastic solar cells

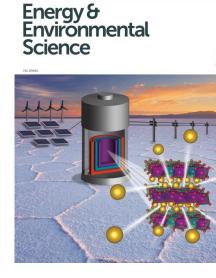
# Improving thermoelectric materials



Engine fuel delivery efficiency







Structural studies on Na-ion batteries





Neutrons and muons to advance knowledge and improve lives.

# Opportunity for Indonesian and Malaysia researchers to use ISIS

UK International Science Partnerships Fund (ISPF) award, 2023 – 2027

#### Support for:

- Experiments at ISIS: beam costs
   Experiments at ISIS: travel and living costs
- Workshops, training
- Visits to the facility
- Dissemination of research results from ISIS experiments





#### We can support:

- Up to two researchers per experiment
- Flight costs
- Other travel costs
- Food and accommodation whilst at RAL









#### Case study: ISIS and Indonesia for a climate friendly future

Dr Indri Adilina has worked with ISIS since 2018 to establish a viable method of using palm oil biomass waste to generate biofuel to reduce Indonesia's reliance on fossil fuels.

With the support of dedicated scientific and technical teams at ISIS, Dr Adilina has used advanced techniques, such as INS (inelastic neutron scattering) and QENS (quasi-elastic neutron scattering) to harness the unique properties of neutrons. These studies have provided insight into the catalytic process involved in biofuel production and important information for catalyst design and optimisation.





"Using neutron science we are trying to master the technology of biomass catalysis and establish whether bentonite clay, a renewable and abundant resource in Indonesia, could provide as a suitable catalyst support for the conversion of palm oil wastes into biofuel."

#### Dr Indri Adilina

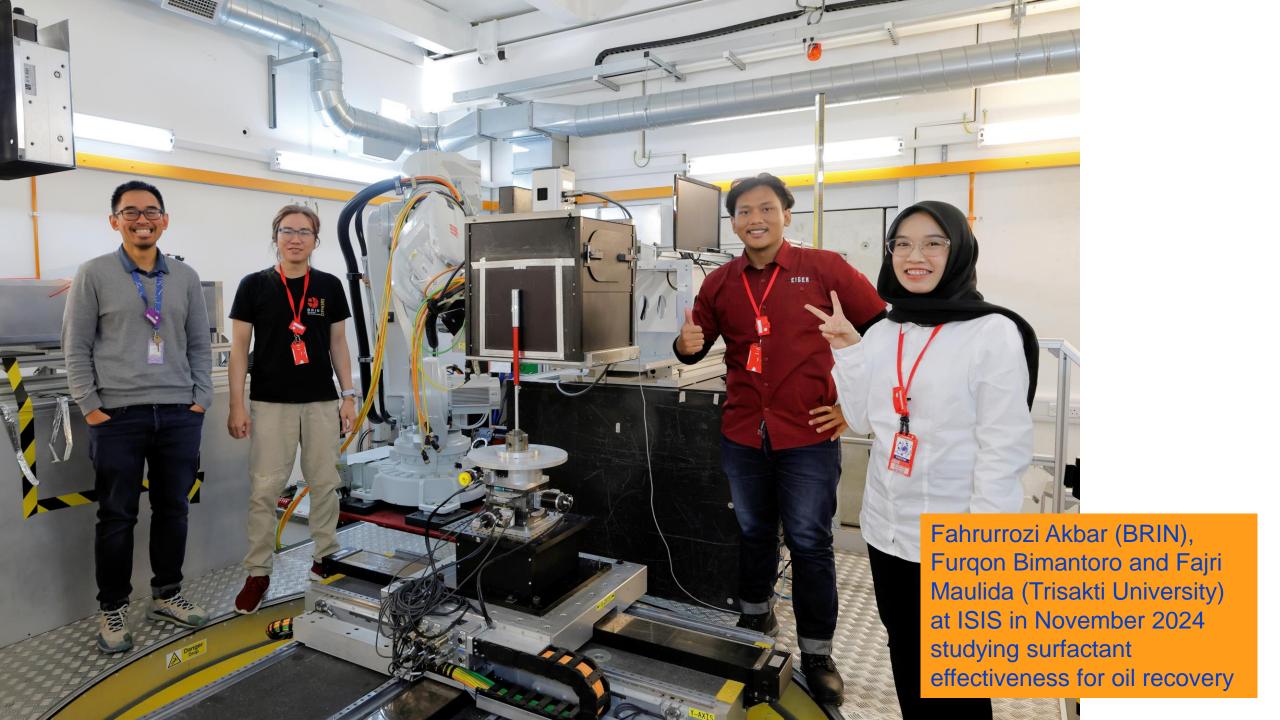
Researcher for The National Research and Innovation Agency (BRIN) of the Republic of Indonesia

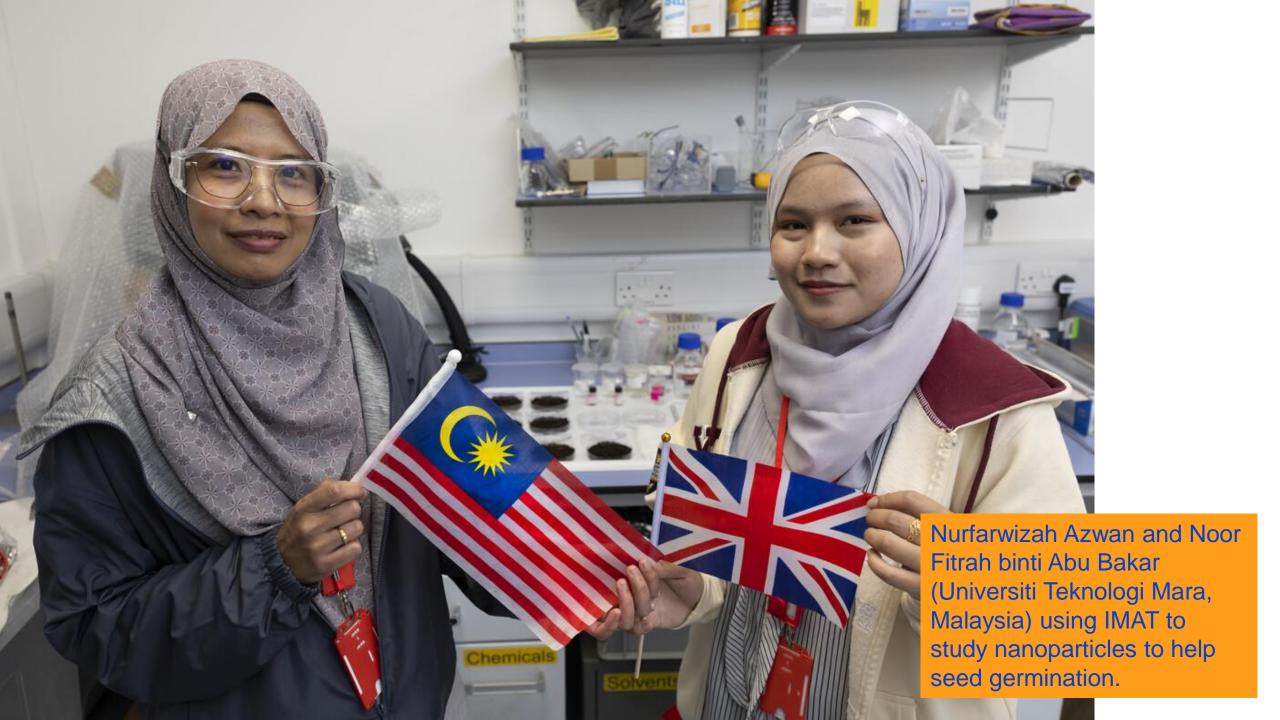




Muon Source

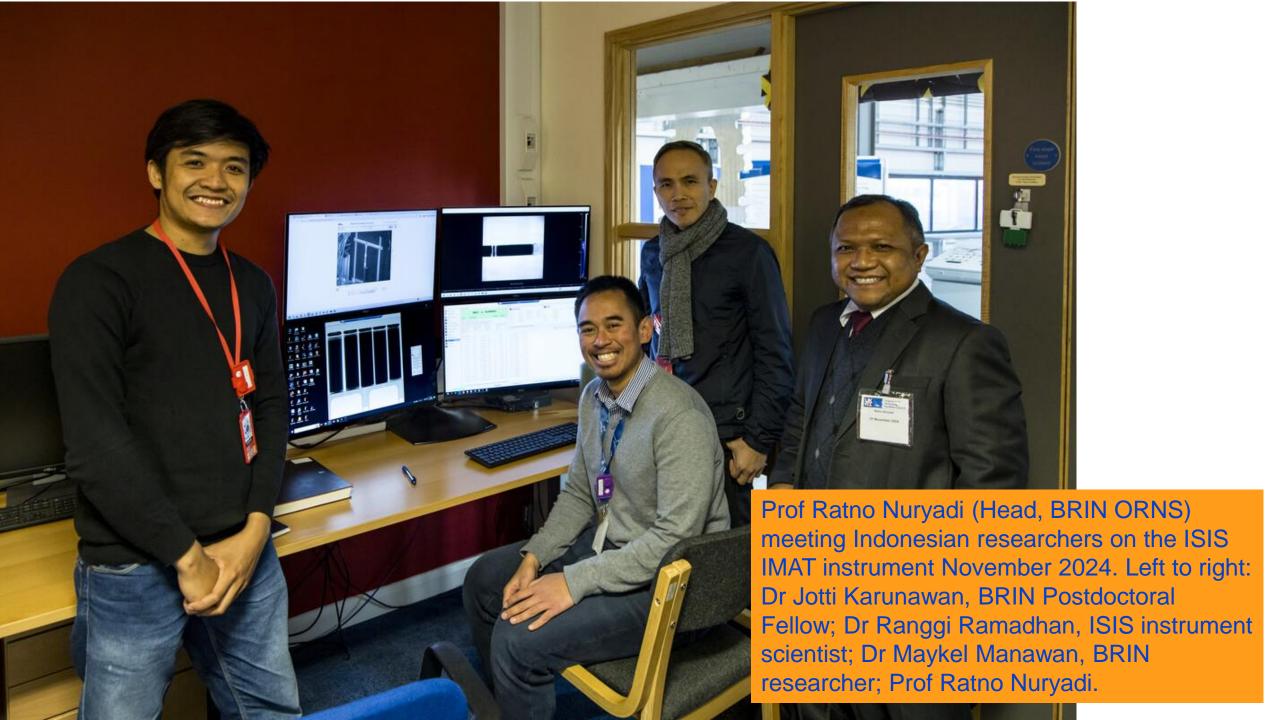




















ISIS Neutron and Muon Source



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