

2024 ISIS FAP MEMBER VACANCIES – REQUIRED EXPERTISE

FAP	Required Expertise
FAP1a Crystallography	No vacancies
FAP1b Crystallography	<ul style="list-style-type: none"> ▪ Expert in strongly correlated electron systems, with experience in neutron diffraction (powder and single crystals) applied to magnetism, superconductivity and heavy fermions ▪ Expert in frustrated magnetism, with specific experience in interpreting/modelling magnetic diffuse scattering from both powder and single crystal samples
FAP2 Disordered Materials	Expertise in disordered materials science as applied to energy materials, in particular to batteries or other electrochemical devices
FAP4 Excitations	Frustrated magnetism
FAP5 Molecular Spectroscopy	Expertise in one or more of the areas of quasielastic neutron spectroscopy (QENS), deep inelastic (electron-volt) or vibrational spectroscopy. Prospective members should have a background in chemistry, materials science, biology or soft matter. Experts in polarised QENS and catalysis are encouraged to apply. For recent overviews of our science and instrumentation programmes, see the Proceedings of our MSSM series, epubs.stfc.ac.uk/work/40650049 and visit our webpage https://www.isis.stfc.ac.uk/Pages/Molecular-Spectroscopy.aspx
FAP6 Muons	No vacancies
FAP7 Engineering	No vacancies
FAP8 Small Angle Neutron Scattering	<ul style="list-style-type: none"> ▪ Surfactants ▪ Polymers ▪ Magnetism ▪ Bio SANS ▪ Steel expert
FAP9 Reflectometry	Active experience with bilayers, bio-membrane models and their interactions with proteins, polymers and peptides, organic monolayers and wider biology background. Desirable additional expertise in surfactant science and/or atmospheric chemistry
FAP10 Chip Irradiation	Knowledge of radiation effects testing (preferably neutron, but general would be okay). Knowledge of power devices' radiation effects testing with neutrons. Knowledge of detector testing with neutrons.
FAP11 Cultural Heritage	No vacancies