

## 2025 ISIS FAP MEMBER VACANCIES – REQUIRED EXPERTISE

FAP	Required Expertise
FAP1a Crystallography	No vacancies
FAP1b Crystallography	We are looking for an expert in strongly correlated electron systems, with experience in single crystal neutron diffraction applied to magnetism and superconductivity. Additional experience with complex sample environment and neutron diffraction would be an advantage.
FAP2 Disordered Materials	The ISIS Facility Access Panel for Disordered Materials is seeking a new panel member with expertise in neutron/x-ray total scattering and pair distribution function determination. Specialist knowledge in the physics of fluids and/or the structure of glasses and inorganic disordered materials would be advantageous, whilst knowledge of multi-length scale (atomic to nanoscopic) scattering, confined fluids or porous materials is also desirable.
FAP4 Excitations	<ul style="list-style-type: none"> <li>• Superconductivity</li> <li>• Lattice Dynamics</li> <li>• Theory of Condensed Matter Physics</li> </ul>
FAP5 Molecular Spectroscopy	Expertise in one or more of the areas of quasielastic neutron spectroscopy (QENS), vibrational or deep inelastic (electron-volt) spectroscopy. Prospective members should have a background in chemistry, materials science, biology or soft matter. Experts in polarised QENS, catalysis and functional materials are encouraged to apply. For recent overviews of our science and instrumentation programmes visit our webpage <a href="https://www.isis.stfc.ac.uk/Pages/Molecular-Spectroscopy.aspx">https://www.isis.stfc.ac.uk/Pages/Molecular-Spectroscopy.aspx</a>
FAP6 Muons	<ul style="list-style-type: none"> <li>• Expertise in muon elemental analysis and <math>\mu</math>-SR.</li> <li>• Expertise in energy materials. Desirable to have research experience using muons.</li> <li>• Expertise in condensed matter physics, particularly in the area of superconductivity. Desirable to have research experience using muons.</li> </ul>
FAP7 Engineering	No vacancies
FAP8 Small Angle Neutron Scattering	<ul style="list-style-type: none"> <li>• Hard condensed matter</li> <li>• Quantum matter</li> <li>• Magnetic materials</li> <li>• Engineering materials.</li> <li>• Polymers and macromolecules</li> </ul>
FAP9 Reflectometry	<ul style="list-style-type: none"> <li>• Thin film magnetism experts</li> <li>• Biology and soft matter experts</li> </ul>
FAP10 Chip Irradiation	<ul style="list-style-type: none"> <li>• Fast neutron irradiation of electronics/detectors/materials.</li> <li>• Radiation testing at facilities, with neutrons/protons/heavy ions.</li> <li>• Single Event Effects on electronics/microelectronics/electronic systems or relevant field.</li> </ul>
FAP11 Cultural Heritage	No vacancies