

Research Group: Nanostructured Materials

The Nanostructured Materials Research Group is dedicated to investigating fundamental aspects and dynamic phenomena at the atomic scale employing advanced electron microscopic techniques.

Job Title:	Research Fellow (Postdoc) - TEM/STEM Investigations of Catalysts
PRR Agenda (s):	<i>Moving2Neutrality</i>
Project Title (s):	<i>Development of ALK electrolyzers</i>
Job Reference:	<i>RRP.11.29.09.7</i>
Contract duration:	<i>36 months</i>
Expected hiring date:	<i>January 2023</i>
Main Job Duties:	<ul style="list-style-type: none"> • TEM/STEM Characterization of catalyst materials • Crystal structure Modelling and Image Simulations. • Disseminate the work in international conferences. • Publish in high impact journals. • Prepare technical and progress reports.
Required Qualification:	PhD degree in Materials Science, Nanoscience and Nanotechnology, Electron Microscopy, Physics and Chemistry
Mandatory requirements:	<ul style="list-style-type: none"> • Experience with TEM/STEM techniques in combination with spectroscopy for the characterization of catalysts. • Have a strong background in crystallography and electron diffraction • Experience with TEM/STEM image processing, simulations and modelling. • Experience with writing project reports, publishing in high impact journals and adhering to strict deadlines.
Other preferred qualifications:	<ul style="list-style-type: none"> • Experience with Aberration Corrected TEM/STEM • In situ TEM/STEM
Supervisor:	Dr. Leonard Deepak Francis