

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 Energy Related Materials
PRR Agenda (s):	New Generation Storage (NGS)
Project Title (s):	<i>Production of Flexible Cells And Cellulose-Based Components</i>
Job Reference:	<i>RRP.12.41.09.2</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 energy related materials by advanced electron microscopic techniques. • Characterization with FIB/SEM Techniques. • Engage in research and collaborative activities with internal and external groups. • Disseminate the work in international conferences. • Publish in high impact journals. • Prepare technical and progress reports.
Required Qualification:	PhD in Materials Science, Nanoscience and Nanotechnology, Electron Microscopy, Physics and Chemistry
Mandatory requirements:	<ul style="list-style-type: none"> • Experience with TEM/STEM and spectroscopic techniques. • Experience with the electron microscopic characterization of energy related materials (ex: battery materials including cathode, separators, electrolytes and their interfaces, etc.). • Experience with FIB-SEM techniques including cross-sectional sample preparation and analysis and TEM lamella preparation. • 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 TEM/STEM image processing, simulations and modelling. • Experience with 3D structural imaging and analysis.
Supervisor:	Dr. Leonard Deepak Francis