

**Facility: Advanced Electron Microscopy, Imaging and Spectroscopy Facility**

The Advanced Electron Microscopy, Imaging and Spectroscopy Facility is a core multi-user facility that features cutting-edge instrumentation, techniques and expertise required for the characterization of samples in the physical and life sciences. The facility focuses on materials and biological research, development of novel techniques and instrumentation, as well as providing training, technical support and consultation in the areas of electron microscopy and spectroscopy.

<b>Job Title:</b>	<b>Research Engineer – Electron Microscopy and Spectroscopy</b>
<b>PRR Agenda (s):</b>	<i>R2U Technologies</i>
<b>Project Title (s):</b>	<i>Structural Steel</i>
<b>Job Reference:</b>	<i>RRP.14.47.05.2</i>
<b>Contract duration:</b>	<i>36 months</i>
<b>Expected hiring date:</b>	<i>January 2023</i>
<b>Main Job Duties:</b>	<ul style="list-style-type: none"> <li>• Maintenance, operation and troubleshooting in Transmission and Scanning Electron Microscopes: TEM and SEM.</li> <li>• Training of new users in TEM and SEM as well as in the sample preparation tools.</li> <li>• Characterization/Analysis of samples for internal and external customers, including data acquisition and data treatment.</li> <li>• Preparation of reports of results.</li> </ul>
<b>Required Qualification:</b>	BSc degree in Science or Engineering.
<b>Mandatory requirements:</b>	<ul style="list-style-type: none"> <li>• Electron Microscopy Characterization: Scanning (SEM) and/or Transmission Electron Microscopy (TEM).</li> <li>• Sample preparation for electron microscopy.</li> <li>• Characterization service oriented.</li> <li>• Customer oriented and proactivity.</li> </ul>
<b>Other preferred qualifications:</b>	<ul style="list-style-type: none"> <li>• MSc degree in Science or Engineering.</li> <li>• Electron diffraction.</li> <li>• Energy-Dispersive X-Ray Spectroscopy (EDXS).</li> <li>• Electron Energy Loss Spectroscopy (EELS).</li> <li>• Aberration-corrected (S)TEM.</li> <li>• X-Ray Photoelectron Spectroscopy (XPS).</li> <li>• Maintenance of large research infrastructures.</li> </ul>
<b>Supervisor:</b>	Dr. Enrique Carbo-Argibay