

<b>Job Title: Chemical Technician</b>	<b>Job Code:</b>
<b>Department: R&amp;D</b>	<b>Job Grade:</b>
<b>Revision Date: 22 Aug 2022</b>	<b>Fair Labor Standards Act (FLSA):</b>

### Position Overview

The chemical technician's primary responsibility is to assist across numerous research & development fields. This includes operation of analytical and quality control instrumentation as well as assisting with electrode and membrane coating and processing as needed. This work will be carried out at Advent's brand new R&D facility in Charlestown, MA (opening late 2022).

### Essential Job Functions

- Produce consistent and high-quality test results using a variety of analytical instrumentation, including but not limited to Scanning Electron Microscope (SEM/EDS), Rheometer, Capillary Flow Porosimeter, Optical Microscope, Thermogravimetric Analyzer (TGA)
- Assist in the coating and casting of electrodes and membranes, as well as the necessary precursor preparation (catalyst ink preparation, polymer solution preparation) and post-processing (membrane acid imbibement, electrode X-Ray Fluorescence measurements, etc)
- Provide regular updates to appropriate team leaders, primarily the Coating Manager
- Apply exceptional troubleshooting skill as primary operator for solving software, electronic, gas metering, fluid handling, and mechanical equipment problems on analytical equipment, while also communicating to necessary technical services when needed.
- Accomplish job functions within Advent's safety protocols and procedures
- Conduct all work with exceptional attention to detail and unwavering integrity

### Non-Essential Job Functions

- Assist in maintaining the appropriate quality systems related to the analytical equipment.
- Assist in executing development trials and experiments
- Assist on other various projects such as development of new processes and processing equipment, modification of existing processing equipment, and development of new SOPs for modified equipment or newly developed processes

**Requirements**

- Bachelor of Science in Chemistry or related field
- Experience with analytical instrumentation

**Other Skills/Abilities**

- Excellent communication skills a must
- Ability to present data to different team leaders as needed
- Ability to reliably repeat analytical tests with negligible test-to-test variation
- Ability to work with cross-functional teams from inside the company and outside the company
- Proficiency with Windows-based PC's and MS office programs including Outlook, Word, Excel, and PowerPoint

NOTE: This job description is not intended to be all-inclusive. Employee may perform other related duties as assigned to meet the ongoing needs of the organization. This position may be at times physically demanding and requires considerable manual dexterity, the ability to maneuver within confined spaces, and the strength to use a variety of manual and electric tools.