

<b>Job Title: FC Test Manager</b>	<b>Job Code:</b>
<b>Department: R&amp;D/Test Group</b>	<b>Job Grade:</b>
<b>Revision Date: 19 Oct 2021</b>	<b>Fair Labor Standards Act (FLSA):</b>

### Position Overview

The fuel cell test manager's primary responsibility is to guide and direct the fuel cell testing team of scientists and engineers as they navigate testing throughout the spectrum of research, development, and production quality control. Will be a key decision maker in determining R&D pathways and methodologies.

### Essential Job Functions

- Properly interpret data in real-time from 20+ fuel cell test stations operated by 4-5 engineers to determine next steps of R&D pathways as well as QC pass/fail of critical components
- Design and develop protocols and test methods for operation of single cells and short stacks, including overseeing of new employee training
- Design and develop appropriate maintenance programs for the fuel cell test equipment, including overseeing of new employee training
- Responsible for upkeep of a fleet of test stations, capable of 20-30 single cells tested per day. Knowledgeable regarding software, electronic, gas metering, fluid handling, and mechanical equipment related to fuel cell test equipment.
- Identify possible failure mechanisms in components that do not meet QC specifications and work with engineers to develop methodologies to prevent or mitigate such failures
- Collaborate with Advent's research and development partners, including design and scheduling of testing handled by fuel cell engineers.
- 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 customer technical assistance with respect to operation and testing of MEAs as well as experimental testing design
- Assist engineering group 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**

- M.S. or higher from a nationally accredited university in Electrochemistry, Chemistry, or Chemical Engineering with strong hands-on skill. Ph.D preferred in relevant field
- Experience with assembly and testing of single cell test equipment and hardware for polymer electrolyte fuel cells
- Experience with assembly of coated films and substrates into a finished stack, as well as lamination technologies
- Experience evaluating electrochemical data and determining next steps in R&D pathways
- Minimum of 3 years prior work experience

**Other Skills/Abilities**

- Ability to direct a team of 4-5 fuel cell engineers
- Excellent communication skills a must
- Ability to present data to all levels of the organization
- Ability to work with cross-functional teams from inside the company and outside the company
- Familiarity with statistical software packages such as Minitab, analytical processing tools such as Mathematica or MATLAB, and database programs such as Microsoft Access
- 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.