

We are looking for a new senior engineer to help us develop our nanocomposite proton exchange membranes for fuel cells. We are looking for someone courageous, creative, detail oriented, unafraid of risk and willing to learn. This will be an immersive startup experience after all, one where you will be working with the founding team to make better fuel cells to accelerate the decarbonization of heavy-duty trucking with hydrogen and directly address climate change.

### **Responsibilities**

As a senior engineer at Celadyne, you will be working with your hands, brain, and through mentorship. You will conduct many tests and experiments yourself but with support from the team. You will also mentor others and come up with new product lines for the company. A standard week will involve time in lab and time for you to think or analyze your data. You will be working with nanomaterial and polymer colloids along with membrane and catalyst deposition processes like blade coating and spray coating. You will also test the materials for performance. In short, this is an end-to-end development experience from fabrication to testing.

### **How to Thrive**

Direct honest communication is key at Celadyne. We have a very open culture and we prize ideas and execution over talk. Say what you do, why, and make sure you do what you say. We also seek clear thinking and risk tolerance to try things against the odds. We act to lead and mentor each other through leading by example and providing constructive criticism during appropriate meetings. Success at Celadyne would entail advancement in the company upwards. Without ceilings. You may even catch the bug here and start your very own startup. We encourage that.

### **Who we are**

Celadyne is an advanced materials company focused on developing better membranes and catalyst for hydrogen devices. These materials are the heart of fuel cells, electrolyzers, and electrochemical compressors - critical devices for the usage, production, and compression of hydrogen. We are currently a team of five, and are funded by the U.S Air Force, Department of Energy, National Science Foundation, and Advanced Research Projects Agency-Energy. Our private funders include Shell and Breakthrough Energy, a coalition founded by Bill Gates.

We hope you'll choose to apply if this is the right fit, and we look forward to speaking with you.

**Required qualifications:**

- PhD in Chemical Engineering, Materials Science, Chemistry, or a related discipline
- Either/or
  - 1) Experience synthesizing novel monomer, polymers, or functional groups for battery, fuel cell, electrolyzer, gas separators, or water purification membrane applications
  - 2) Experience integrating membranes into full devices
- Experience with membrane fabrication and characterization for any application ranging from electrochemical devices to gas separations or water filtration
- Demonstrated ability and willingness to both work in and lead a collaborative team
- Strong motivation for materials and technology innovation
- Demonstrated ability to function as subject matter expert
- At least two years of relevant R&D experience

**Preferred qualifications:**

- Experience with polymer selection or design for membrane performance
- Experience with electrochemical membrane fabrication and testing to potentially include ion conductivity, mechanical properties, and gas permeability
- Experience with materials synthesis, e.g., polymers for membranes or inorganic nanomaterials
- Four or more years industrial R&D experience in a relevant technology space

Interested applicants should contact:

Dr. Corey Staller (apply through Indeed)

Celadyne provides equal employment opportunities to all employees and applicants for employment and prohibits discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state or local laws.

Job Type: Full-time

Salary: \$90,000.00 to \$130,000.00 /year

COVID-19 considerations:

All employees must be vaccinated against COVID-19. Social distancing maintained when reasonable.