

Chemical Process Technician – Adsorbent Materials Development for Chemical and Biological Defense Applications

Tetramer Technologies seeks a Chemical Operator to support the development of adsorbent materials for protective garments under a Department of Defense-funded program. The program focuses on advancing Metal-Organic Framework (MOF) technology to protect soldiers from chemical and biological threats.

The Chemical Operator will play a key role in executing experimental processes, monitoring equipment, and ensuring safety and quality standards. This role involves handling chemical processes in MOF technology development, operating laboratory and pilot-scale equipment, and supporting process scale-up.

Responsibilities:

- Operate and monitor equipment, such as reactors, pumps, and filtration systems, to carry out chemical processes related to MOF-based adsorbent material development.
- Prepare and mix chemical ingredients, adhering to precise formulations and safety protocols.
- Monitor process parameters and respond to alarms or deviations, ensuring adherence to operating standards.
- Perform routine maintenance, troubleshooting, and repairs on lab and production equipment.
- Collect and analyze process samples, adjusting parameters as needed to meet project goals.
- Record detailed data on processes, equipment performance, and chemical reactions in compliance with project requirements.
- Participates in company safety program and company quality management process.

Qualifications:

- High school diploma required; additional training or certifications in chemical processes or related fields preferred.
- At least one of the following:
 - 1+ year experience in a chemical process environment.
 - 5+ years of experience in manufacturing.
 - Associate's degree in a manufacturing-related program.
 - Bachelor's degree in chemistry, materials science, or a related field.
- Familiarity with chemical process fundamentals, batch processing, and lab safety practices.
- Experience with adsorbent materials, MOFs, or chemical warfare defense applications is highly desirable.
- Ability to operate and troubleshoot mechanical equipment.
- Proficiency in Microsoft Office Suite (Word, Excel, PowerPoint).

TETRAMER PROPRIETARY INFORMATION

657 S. Mechanic St. | Pendleton, SC 29670 | (864) 646-6282 | Tetramer.com



Competencies:

- **Safety and Compliance:** Demonstrates a commitment to maintaining safety protocols and adhering to regulatory requirements.
- **Technical Aptitude:** Understands and applies chemical process knowledge; troubleshoots effectively.
- **Teamwork and Communication:** Works collaboratively with multidisciplinary teams, providing clear and concise feedback.
- **Organization and Detail Orientation:** Maintains accurate records and prioritizes tasks effectively.

Physical Demands:

- Capable of lifting and moving up to 60 pounds
- This position requires working 8 hour shifts while standing for long periods of time. Employees must be able to work scheduled (planned) days as well as unscheduled (unplanned/short notice) hours on off days as needed to meet business needs.

Work Environment: The Chemical Operator will work in a laboratory and pilot-scale environment with occasional exposure to industrial noise levels. While performing the duties of this job, the employee will interact with materials that may generate fumes or airborne particles and toxic or caustic chemicals. It is expected that the employee will follow all company, OSHA, and SCDES required safety procedures and wear all required Personal Protective equipment (Lab coat, safety glasses, gloves and possibly a face shield or respirator while in production areas).

Compensation and Benefits: This is a full-time role with competitive pay and benefits. In compliance with ITAR government regulations, **proof of U.S. Citizenship or active green card status is required.**

Team Culture

At Tetramer, we foster a culture of innovation, collaboration, and excellence. Our team of 20 is comprised of diverse individuals who are passionate about pushing the boundaries of materials science and driving real-world impact. We value creativity, curiosity, and a willingness to tackle complex challenges head-on. With a focus on teamwork and mutual respect, we cultivate an environment where every voice is heard, ideas are encouraged, and individuals are empowered to make a difference. If you're driven by a desire to make meaningful contributions and flourish in a dynamic, fast-paced environment, you'll find Tetramer Technologies to be a great fit. [Learn more about Tetramer culture on the About Page.](#)

Apply Now: Visit tetramer.com/careers/ to submit your resume and become part of Tetramer's mission to protect soldiers and innovate materials for the future.