

Chemical/Materials Engineer – Production & R&D

Tetramer Technologies | Pendleton, SC | Full-Time

About the Role

Tetramer Technologies is seeking a motivated early-career Chemical or Materials Engineer to join our team in a hybrid production and research role. This position is designed for a high-performing early-career who wants hands-on experience across the full materials development lifecycle — from lab-scale synthesis to pilot-scale production. In the near term, this role will focus on supporting manufacturing operations and ensuring production quality; over time, it will evolve into a dedicated R&D or engineering function as the individual develops familiarity with Tetramer's programs and processes.

Responsibilities

Production Operations

- Operate and monitor laboratory and pilot-scale equipment including reactors, pumps, filtration systems, and related instrumentation
- Prepare, measure, and mix chemical formulations according to precise specifications and safety protocols
- Monitor process parameters, respond to deviations, and maintain adherence to operating standards
- Perform routine equipment maintenance, troubleshooting, and minor repairs
- Collect, record, and analyze process samples; adjust parameters as needed to meet production goals
- Maintain accurate and detailed records of processes, equipment performance, and experimental results
- Support process scale-up activities and assist in developing or refining standard operating procedures

Quality & Safety

- Participate in and contribute to Tetramer's safety program and quality management systems
- Ensure compliance with all applicable OSHA, EPA, and company safety requirements
- Wear and properly use required personal protective equipment (PPE) in all laboratory and production areas

Research & Development (Near-Term and Growing)

- Assist in the design and execution of experiments to develop and characterize advanced materials
 - Analyze and interpret data to draw conclusions and recommend process or formulation improvements
 - Collaborate with multidisciplinary R&D and engineering teams on active programs
 - Contribute to technical documentation, reports, and internal presentations
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Qualifications

Required

- Bachelor's degree in Chemical Engineering, Chemistry, Materials Science, or a closely related field
- Strong foundation in chemical process fundamentals, thermodynamics, mass/energy balances, or materials characterization
- Ability to work hands-on in a lab and production environment, including standing for extended periods and lifting up to 60 lbs
- Proficiency in Microsoft Office Suite (Word, Excel, PowerPoint)

Preferred

- Internship, co-op, or research experience in a laboratory or manufacturing setting
 - Familiarity with batch processing, scale-up principles, or materials characterization techniques
 - Experience or coursework in advanced materials, coatings, polymers, composites, or related areas
 - Exposure to ISO quality management systems or regulated production environments
 - Experience with safety and regulatory compliance, such as hazardous waste management, OSHA standards, EPA regulations, or similar frameworks; relevant certifications (e.g., HAZWOPER, OSHA 10/30) are a plus
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Competencies

- **Safety Mindset:** Demonstrates a personal commitment to safe practices and a proactive approach to hazard identification
 - **Technical Aptitude:** Applies engineering and chemistry fundamentals to solve practical problems; learns new processes quickly
 - **Attention to Detail:** Maintains accurate records and follows procedures with precision
 - **Collaboration:** Works effectively with cross-functional teams; communicates clearly and constructively
 - **Growth Orientation:** Eager to expand technical responsibilities and take on increasing ownership over time
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Physical Demands & Work Environment

This position involves working in laboratory and pilot-scale production environments. In this role, employees will have occasional exposure to industrial noise, chemical fumes, airborne particles, and caustic or toxic materials. Proper PPE — including lab coat, safety glasses, gloves, and, when required, face shield or respirator — is mandatory in production areas. The role requires the ability to work 8-hour shifts, stand for extended periods, and occasionally work outside of standard scheduled hours to meet operational needs.

Compensation & Benefits

This is a full-time position with competitive salary and a comprehensive benefits package. In compliance with ITAR government regulations, **proof of U.S. Citizenship or active green card status is required.**

About Tetramer Technologies

At Tetramer, we foster a culture of innovation, collaboration, and excellence. Our team of 20 is comprised of diverse individuals passionate about pushing the boundaries of advanced 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 and individuals are empowered to make a difference.

[Learn more about Tetramer culture](#) | **Apply at tetramer.com/careers**