



Process Technical Services
14550 Torrey Chase Blvd, Ste 220
Houston, TX 77014
1 (800) 426-2317
www.ProcessTechnicalServices.com

Senior Process Engineer

The Senior Process Engineer is responsible for leading the design, optimization, and continuous improvement of industrial processes to enhance safety, reliability, efficiency, and operational performance. This role provides technical leadership for process engineering initiatives, supports capital projects, and collaborates with operations, maintenance, project teams, and clients to ensure processes meet production, quality, and regulatory requirements.

Responsibilities

- Lead process engineering activities for capital projects, plant modifications, and operational improvements.
- Analyze process performance and identify opportunities to improve safety, efficiency, reliability, and product quality.
- Develop and review process flow diagrams (PFDs), piping and instrumentation diagrams (P&IDs), heat and material balances, and process calculations.
- Provide technical support for plant operations, troubleshooting, commissioning, startups, and shutdowns.
- Evaluate process risks and recommend engineering solutions to optimize system performance.
- Collaborate with operations, maintenance, project management, and engineering teams to implement process improvements.
- Perform process simulations, equipment sizing, and engineering studies to support project development.
- Ensure compliance with applicable industry standards, environmental regulations, and company safety policies.
- Mentor junior engineers and provide technical guidance on process engineering best practices.
- Prepare engineering reports, technical documentation, design specifications, and client deliverables.

Qualifications

- Bachelor's degree in Chemical Engineering or a related engineering discipline required.
- 12+ years of experience in process engineering within industrial, petrochemical, refining, chemical manufacturing, or energy industries.
- Strong knowledge of process design, process optimization, process safety, and engineering principles.
- Experience with process simulation software, engineering calculations, and industry standards is preferred.



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- Professional Engineer (PE) license is a plus.
- Excellent analytical, leadership, communication, and project coordination skills.