

Chemical Engineers

Chemical Engineers apply principles of chemistry, physics, biology, and mathematics to design, develop, and optimize processes for producing chemicals, fuels, pharmaceuticals, and other products. They ensure that industrial processes are safe, efficient, and environmentally sustainable. Their work bridges laboratory research and large-scale manufacturing.

Duties and Responsibilities (Points):

- Design and develop chemical processes for manufacturing products
- Optimize production methods to improve efficiency and reduce costs
- Conduct experiments and pilot tests to evaluate new processes
- Ensure compliance with safety, environmental, and quality regulations
- Analyze raw materials, chemicals, and final products
- Troubleshoot production issues and implement solutions
- Collaborate with engineers, scientists, and production teams
- Develop plans for waste management and pollution control
- Prepare technical reports, process documentation, and safety manuals
- Research and implement innovative technologies in chemical production