

# GE Global Research

## Chemical Engineer Niskayuna, NY

As a member of the Material Discovery and Process Development team, you will work with a team of chemists to develop a commercially viable process to produce chemicals of interest to various GE businesses. You will be responsible for process definition, planning pilot runs to support the ultimate design and to provide larger scale samples for testing. In addition, you will be responsible for process cost estimation including capital and variable cost estimates.

You will work with team members to define a process to manufacture chemicals of interest; define and execute pilot plan; rework process definition to resolve operability and cost issues; maintain an accurate cost model for capital and variable costs.

### RESPONSIBILITIES:

As a Chemical Engineer, you will:

- Lead tasks in process definition and development.
- Work closely with a team of chemists to define the process to manufacture chemicals of interest to GE businesses.
- Work closely with a team of chemists to redefine the process as issues of operability and cost arise.
- Conduct evaluations of process capital and variable costs to be used by GE businesses to determine product feasibility.
- Define pilot programs to develop the process and to provide larger scale samples for testing.
- Ensure that pilot programs address all necessary aspects of the process design, assuring the business of an accurate assessment of the product feasibility.
- Work with GE businesses to transfer the process design to their technical team.
- Identify and work with internal manufacturing or toll vendors to ensure an effective translation to commercialization.
- Work with GE business teams to help evaluate process safety and commercial risks.
- Assist in development of program plans and white papers for external funding. Investigate and identify external opportunities for funding and collaboration.
- Work closely with GE Global Research and GE Business leadership teams to develop technology in line with GE business strategies – Water, Energy, and Healthcare.
- Lead electronic data collection and reporting for highly effective data storage, documentation and transfer.
- Build relationships with people with a wide variety of technical expertise and business responsibilities.
- Support IP analysis, write disclosures and provide technical input in patent application process.
- Deliver effective presentations, reports, and publications to Global Research leadership, the GE businesses, government agencies, professional societies, and peer-reviewed journals.

### BASIC QUALIFICATIONS:

- Doctorate in Chemical Engineering, Polymer Science/Engineering or related discipline
- Demonstrated project execution.
- Must be willing to work out of an office located in Niskayuna, NY.
- Must be willing to take a drug test and submit to a background investigation as part of the selection process.
- Must be 18 years or older.

**You must submit your application for employment against job number 1429468 on the Careers page at [www.ge.com/research](http://www.ge.com/research) to be considered for this position.**

**This position will be accessible on the GE Careers website beginning Monday, September 12.  
Please be sure to clearly indicate your current University when submitting your resume for consideration.**



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