



## Cristina Varela - 32

“ Every time you take medicine, a chemical engineer was involved in the process. In my role at a pharmaceutical company, I am involved in optimizing the process, troubleshooting issues, developing procedures, and ensuring everything is done in a safe, FDA-compliant manner. My role allows me to participate in lots of different areas of the manufacturing process. There is never a dull day! ”

### Occupation:

Pharmaceutical  
Scientist

### Salary:

\$96,440

### Education:

Bachelor's Degree

### Job Description:

**Chemical Engineers** design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, by applying principles and technology of chemistry, physics, and engineering.\*



\*Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Job Description:

SOC Code: 17-2041

## Top Job Skills:

- Manage multiple projects
- Provide technical support
- 3D modeling
- Regulatory compliance
- Risk assessments

## General Work Activities:

- Mental Processes
  - Develop safety standards, policies, or procedures
  - Develop technical methods or processes
  - Determine causes of operational problems or failures
  - Evaluate characteristics of equipment or systems
  - Design control systems for mechanical or other equipment
  - Determine operational methods
- Interacting With Others
  - Direct industrial production activities
- Information Input
  - Research engineering aspects of biological or chemical processes
  - Conduct validation tests of equipment or processes
  - Research industrial processes or operations
  - Estimate operational costs
  - Monitor the productivity/efficiency of industrial operations

Source: SC Works Online Services (SCWOS)

## LEARN MORE WITH SCWOS:

**SC Works Online Services (SCWOS)** is the state's largest job database and provides all of South Carolina's job postings from all major sites, including Monster and Career Builder, in one resource. SCWOS has thousands of positions listed by employers all over the state. To access SCWOS, visit [jobs.scworks.org](https://jobs.scworks.org).

Find in-depth breakdowns of occupational statistics such as necessary job certifications, job skills and abilities, current job openings, overview of general work activities, and more by visiting [O\\*NET.org](https://www.o*net.org).

DEW is an equal opportunity employer. Auxiliary aids and services are available upon request to individuals with disabilities. Access TTY/TDD equipment via the South Carolina Relay Service at 711. For program funding details in compliance with the Stevens Amendment, please visit [www.dew.sc.gov/funding](https://www.dew.sc.gov/funding). Information released as part of the Explore SC@Work campaign is gathered from employers, jobseekers, associations, the Bureau of Labor Statistics, DEW's Labor Market Information Division, and other sources. All data is factual, but names, images, and quotations have been adapted to protect the identity of employees and businesses.

## JOB STATISTICS:



### Typical Wage Range

\$89,260 - \$130,290



### Projected Growth

25/yr Job Openings



### Employed In-State

350



### Required Education

Bachelor's Degree



### Work Experience

Typically  
Requires None



### On-the-Job Training

Typically  
Requires None

\*Source: Occupational Employment and Wage Statistics (OEWS) and the U.S. Bureau of Labor Statistics.

## EXAMPLES OF WORKFORCE AREAS WITH JOB OPENINGS:

Source: SC Works Online Services. Ask an SC Works representative for more information about postings in your area.

- Greenville
- Upstate
- Lower Savannah
- Catawba
- Worklink
- Upper Savannah

## EXAMPLES OF EMPLOYERS WITH JOB OPENINGS:

Source: SC Works Online Services. Ask an SC Works representative for more information about postings in your area.

- Celanese Corporation
- Huntsman International, LLC
- Actalent
- GE Healthcare
- BASF
- Mitsubishi Chemical Group

## RELATED OCCUPATIONS\*:

- Chemists
- Manufacturing Engineers
- Materials Engineers
- Mechanical Engineers
- Nuclear Engineers
- Petroleum Engineers

NOTE: All data based on state averages. Information may vary depending on region, experience, and specific employment situation. Last Updated: 2024.