



## Joel Grant Jr. - 43

“In high school, I participated in several robotics competitions, so I've known pretty much since then that I wanted to be an engineer. I was able to use a lot of the knowledge I gained in those competitions in my college classes and even into my first jobs. A lot of things are being automated that used to take dozens of people to do, and it is exciting to be a part of the team that helps design and test those new functions.”

### Occupation:

Mechanical  
Engineer

### Salary:

\$89,900

### Education:

Bachelor's Degree

### Job Description:

**Mechanical Engineers** perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment such as centralized heat, gas, water, and steam systems.\*



\*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: 17-2141

## Top Job Skills:

- Root cause analysis
- Project planning
- Provide technical support
- 3D modeling
- System design

## General Work Activities:

- Mental Processes
  - Design industrial processing systems
  - Design industrial equipment
  - Evaluate characteristics of equipment or systems
  - Create models of engineering designs or methods
  - Implement design or process improvements
- Interacting With Others
  - Confer with other personnel to resolve design or operational problems
  - Confer with technical personnel to prepare designs or operational plans
  - Direct industrial production activities
  - Recommend technical design or process changes to improve efficiency, quality, or performance
  - Advise others regarding green practices or environmental concerns
  - Direct equipment maintenance or repair activities
  - Direct installation activities

**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).

## JOB STATISTICS:



**Typical Wage Range**  
\$75,380 - \$113,740



**Projected Growth**  
389/yr Job Openings



**Employed In-State**  
4,530



**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
- Trident
- Catawba
- Midlands
- Lower Savannah
- Upstate

## EXAMPLES OF EMPLOYERS WITH JOB OPENINGS:

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

- Westinghouse Electric Company, LLC
- Clemson University
- Sealed Air
- Scientific Research Corporation
- Garver, LLC
- John Wood Group PLC

## RELATED OCCUPATIONS:

- Calibration Technologists and Technicians
- Electrical Engineers
- Automotive Engineers
- Mechatronics Engineers
- Electrical and Electronic Engineering Technologists and Technicians

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