



# STEM Careers

## Research and Development Engineer

**Job Description:** Assist companies in creating or redesigning products through research and development duties like using research theories, models, and experiments.

### What does a Research and Development Engineer do?

- Create mockups, sketches, or dimensions of proposed products
- Build prototypes and perform experiments to test qualities of the product such as durability, functionality, and sustainability
- Lead and manage project teams to oversee the development of a product
- Perform research on market trends to analyze consumer spending habits and determine possible future products
- Evaluate the performance of an existing product and research ways to innovate it
- Research sustainable methods for creating a new product
- Meet with management, marketing, or other teams to collaborate and discuss ideas
- Work with marketing to create a sales plan for a product

### Your Interests:

- Do you like designing and creating new products?
- Do you have good analytical and math skills?
- Are you interested in working with others to complete tasks?

### Outlook:

Average Salary - \$43.35 hourly, \$90,160 annual  
Projected Job Openings - 19,200 over the next 10 years.

### Education/Program of Study:

- Most positions will require a bachelor's degree in engineering or a related field
  - Possible fields of study can include mechanical engineering, biosciences, biotechnology, and more

Sources:

<https://www.indeed.com/career-advice/finding-a-job/r-and-d-engineers>

<https://www.onetonline.org/link/summary/17-2141.00#Education>