

STUDENT ACTIVATION



R&D Software Engineer

R&D software engineers are part of the research and development team of a company. They use their creativity and technology skills to develop software that becomes a new and innovative product for the market or allows an existing product to function to its best ability. They work cooperatively with a team to see their ideas come to life for a range of different organizations, including computer systems, medical devices, or products we need in our everyday life. The need for this career is on the rise, and the salary is higher than many careers. With a bachelor's degree and strong use of the scientific method, you can join a team of innovative R&D Software Engineers.

R&D SOFTWARE ENGINEER

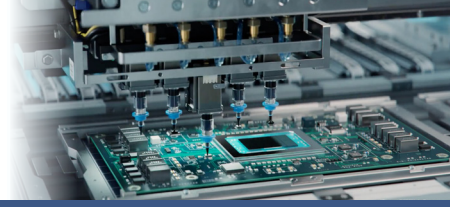
R&D software engineers design, develop, code, test, and debug existing software before using innovative thinking to improve it. They may need to develop tools to test existing software and contribute to a design as well as develop software that meets requirements. They use teamwork with their team and with other engineers cross-departmentally to fully understand new requirements and to provide solutions. R&D software engineers can understand customer needs, analyze the business impact, and look at trade-offs before producing technological solutions.

IS R&D SOFTWARE ENGINEER A GOOD CAREER FOR ME?

Me	R&D Software Engineer
I have a curious mind. I like to predict and solve big problems.	R&D software engineers are curious problem solvers.
I love innovation. I get excited about figuring out ways to make something work better.	R&D software engineers are technology innovators.
I get excited about technology. I love working with computers and coding.	R&D software engineers are proficient coders and have extensive experience with computers and programming.

R&D Software Engineer

STUDENT ACTIVATION (CONTINUED)



I am interested in school subjects like technology, math, and science.	Security engineers study computer science and computer engineering in college.
I enjoy explaining things. I like working with others.	Security engineers are strong communicators. They enjoy working in teams.

How does this career help me?	How does this career help the world?
In the past, we needed to go to the bank to check our balance, transfer money, and deposit checks. Now, because of R&D software engineers, we can open an app and do all of these tasks in the comfort of our home. This is just one example where R&D Software Engineers have stepped in with amazing ideas that save us time and money.	Organizations everywhere are relying less on gadgets and more on technology to make the world a safer and more convenient place. Voice recognition, face recognition, and even using AI to “weed out” inappropriate content makes technology easier, more secure, and safer for users of all ages. These ideas all stem from the out-of-the-box thinking of R&D software engineers!

What are some similar careers?
<p>Computer and information research scientists look at existing computer programs and think of new and innovative uses for them.</p> <p>Computer hardware engineers test, design, and develop computer systems and components.</p> <p>Computer systems analysts study the computer system of an organization and find ways to make it more effective or more efficient.</p>

Here are ways to practice the skills to be a successful **R&D software engineer**:

- Join the debate team! Using your brain to learn about a topic and your voice to fully explain your stance to an audience is the perfect practice to build your communication skills.
- Look at problems as opportunities! Choose a procedure at school that just doesn't seem to be working. Is there a better process to use? Does the number of people need to change? Can it be done digitally? Rethink the procedure and present it to your teacher. See if you can convince them to try out your new, innovative way.
- Join a team or committee. Being able to work together as a team is very important for this position. Plan a dance or school party with folks you don't normally spend time with. Think about how to communicate effectively with them and work together to help everyone feel heard.
- Work with your guidance counselor to take as many technology and computer science classes as possible.