



Software Engineering Intern, Summer 2021 - Bangalore or Hyderabad

The area: Engineering & Operations

Google is and always will be an engineering company. We hire people with a broad set of technical skills who are ready to tackle some of technology's greatest challenges and make an impact on millions, if not billions, of users. At Google, engineers not only revolutionize search, they routinely work on massive scalability and storage solutions, large-scale applications and entirely new platforms for developers around the world. From AdWords to Chrome, Android to YouTube, Social to Local, Google engineers are changing the world one technological achievement after another.

Role Description

Software Engineers at Google are researchers and developers who yearn to create and implement complex computer science solutions. Our engineers develop massively scalable, distributed software systems and also collaborate on multitudes of smaller projects that have universal appeal - which requires research, awareness, interactivity, and asking questions. You build strong competencies in data structures and algorithms, along with a technical fascination for how stuff fits together. You need to have a solid foundation in computer science in order to consistently come up with new ideas as well as strive for a deep understanding of our products and services in order to continually improve upon them. We focus on being a collaborative, global organization consisting of engineers with the highest levels of technical depth, programming skills and a keen eye for quality.

As a Software Engineer, you will work on our core products and services as well as those who support critical functions of our engineering operations. Depending on your background and experience, you will be working in one of the following areas:

Product and Systems Development

Whether it's finding new and innovative ways to advance search quality, building computing



platform and networking technologies, automating the indexing of videos, or continuing to refine and scale complex auction systems (just to name a few), you will be developing solutions to some of the most challenging technical problems out there. You will research, conceive and develop software applications to extend and improve on Google's product offerings and collaborate on scalability issues involving access to massive amounts of data and information. Examples of specialist domains: UI development with AJAX and similar technologies, security, embedded systems and mobile apps (Android), developer tools (IDEs, large-scale build systems, compilers).

Engineering Productivity

In this organization, you'll use your software design, analysis and programming skills to create innovative automated test systems. This isn't a job in which you'll simply debug and run test cases, in fact that only scratches the surface. The test team undertakes a broad range of challenges on a daily basis, designing and building intelligent systems that can explore various use cases and scenarios for distributed computing infrastructure. Just imagine trying to design and build an automated testing system for something that's never been done before. There are no textbooks that can help you learn this, which is why we have some of the best and brightest engineers working in this group.

Responsibilities

Specific responsibilities vary by project area.

Minimum qualifications

Currently pursuing a BTech/Dual course in computer science or a related technical field & in their penultimate year of study, with an anticipated graduation date in 2022 (BTech) and 2022/2023 (Dual).

Preferred qualifications

Must be currently enrolled in a full time degree program and returning to the program after the completion of the internship



Experience in systems software or algorithms.

Excellent implementation skills (C++, Java, Python).

Knowledge of Unix/Linux or Windows environments and APIs.

Familiarity with TCP/IP and network programming.