

## Software Engineer, University Graduate (United States)

Google's software engineers develop the next-generation technologies that change how millions of users connect, explore, and interact with information and one another. Our ambitions reach far beyond just Search. Our products need to handle information at the the scale of the web. We're looking for ideas from every area of computer science, including information retrieval, artificial intelligence, natural language processing, distributed computing, large-scale system design, networking, security, data compression, and user interface design; the list goes on and is growing every day. As a software engineer, you work on a small team and can switch teams and projects as our fast-paced business grows and evolves. We need our engineers to be versatile and passionate to tackle new problems as we continue to push technology forward.

As a key member of a small and versatile team, you design, test, deploy and maintain software solutions.

**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 and iOS), developer tools (IDEs, large-scale build systems, compilers).

**Engineering Productivity:** As a software engineer in the Engineering Productivity 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 engineers working in this group.

**Site Reliability:** Software engineers working in Site Reliability are involved in every facet of Google's production and work on the cutting edge of cloud-based computing. As a member of this elite team you are in the thick of everything involved with keeping Google running, from code-level troubleshooting of traffic anomalies to maintenance of our most cutting edge services; from monitoring and alerts to building new automation infrastructure. Software engineers on this team love to create robust and scalable software that scale to tens of millions of users. You will tackle challenging, novel situations every day, and work with just about every other engineering and operations team to provide services and applications that are quintessentially Google — fast, reliable and accessible to all.

### Responsibilities

- Perform specific responsibilities which vary by project area

### Minimum qualifications

- Bachelor's degree in Computer Science or related technical field.
- Programming experience in one or more of the following languages: C, C++, Java and/or Python.

## Preferred qualifications

- Master's degree in Computer Science or related technical field.
- 1 year relevant work experience, including experience with Unix/Linux or Windows environments, distributed systems, machine learning, information retrieval and TCP/IP.
- Experience in network programming and/or developing/designing large software systems.

## Area

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.

## Software Engineering



Develop the next-generation technologies that change how millions interact.

[Learn more about our Software Engineering roles](#)

## Job details

**Team or role:**

Software Engineering

**Job type:**

Full-time

**Last updated:**

Sep 21, 2016

**Job location(s):**

Cambridge, MA, USA; Madison, WI, USA; San Francisco, CA, USA; Irvine, CA, USA; Chicago, IL, USA; Pittsburgh, PA, USA; San Bruno, CA, USA; Boulder, CO, USA; Mountain View, CA, USA; Los Angeles, CA, USA