NOTE: the internships listed below are *not* eligible for the U of C CPSC Internship program, due to their short duration.

Internships:

Associate Product Manager Intern, Summer - Mountain View

Please apply directly to the job with your unofficial transcripts:
http://www.google.com/intl/en/jobs/students/us/internships/eng/associate-product-manager-intern-summer-mountain-view/index.html

This position is based in Mountain View, CA.

The area: Product Management
One of the many reasons Google consistently brings innovative, world-changing products to market is because of the collaborative work we do in Product Management. With eyes focused squarely on the future, our team works closely with creative and prolific engineers to help design and develop technologies that improve access to the world's information. We're responsible for guiding products throughout the execution cycle, focusing specifically on analyzing, positioning, packaging, promoting and tailoring our solutions to all the markets where Google does business.

The role: Associate Product Manager Intern, Summer
As an Associate Product Manager Intern, you'll work with engineers to define new features and grow our products based on your understanding of user needs. You'll also conduct research on markets and our competitors, focus on strategies that impact the direction of future products and develop leadership experience in a variety of Google's product areas. Technical, analytical and strategic planning skills are vital to performing successfully in this position.
Responsibilities:

- Understand and analyze user needs.
- Help to define a product vision and strategy
- Work with world-class engineers to build and launch new features.

Requirements:

- Currently pursuing a BA/BS or MA/MS in Computer Science and graduating in 2013.
- Excellent written and oral communications skills.
- Strong organizational and analytical skills.
- Strong technical abilities.

- Demonstrated capacity for developing and understanding strategy.
- Deep interest in creating and analyzing products.

Software Developer Intern, PhD, Summer – Montreal

Please apply directly to the job with your unofficial transcripts:
http://www.google.com/intl/en/jobs/students/tech/phd/software-developer-intern-phd-summer-montreal-1/index.html

This position is based in Montreal, Quebec.

The area: Engineering, Software Engineering

Google's Software Engineers develop the next-generation technologies for which we've become world-renowned. In addition to revolutionizing search technology, we use our world-class programming skills to innovate in a number of other areas as well. Our projects include working on advanced information-retrieval algorithms, massive scalability and storage solutions, and large-scale applications that enrich the user experience. We also work extensively on networking systems, advertising systems and complex transaction systems in consumer applications.

The role: Software Developer Intern, PhD, Summer

Summer Internships typically start in May-June and end in August-September.

You are a Software Engineer who's interested in solving interesting problems. Google is much more than search, and our mission has much greater scope. You will handle information at the scale of the web and have ideas from just about every area of computer science, including information retrieval, artificial intelligence, natural language processing, distributed computing, large-scale system design, networking, security, data compression, user interface design; the list goes on.

Responsibilities:

- Perform specific responsibilities which vary by project area.

Requirements:

- Currently pursuing a PhD in Computer Science or related technical discipline.
- A solid foundation in computer science, with strong competencies in data structures, algorithms, and software design.
- Extensive programming experience in one or more of the following: C/C++, Java, Python (strong OO skills preferred).
- Large scale systems design experience with knowledge of Unix/Linux.
- Coding skills in Python or JavaScript/AJAX, database design and SQL, and/or knowledge of TCP/IP and network programming are a plus.

- Research experience in Algorithms, Architecture, Artificial Intelligence, Compilers, Database, Data Mining, Distributed Systems, Machine Learning, Networking, or Systems preferred.
- Must be currently enrolled in a full time degree program and returning to the program after the completion of the internship

Software Developer Intern, Summer – Montreal

Please apply directly to the job with your unofficial transcripts:
http://www.google.com/intl/en/jobs/students/tech/internships/uscanada/software-developer-intern-summer-montreal-1/index.html

This position is based in Montreal, Quebec.

The area: Engineering, Software Engineering

Google's Software Engineers develop the next-generation technologies for which we've become world-renowned. In addition to revolutionizing search technology, we use our world-class programming skills to innovate in a number of other areas as well. Our projects include working on advanced information-retrieval algorithms, massive scalability and storage solutions, and large-scale applications that enrich the user experience. We also work extensively on networking systems, advertising systems and complex transaction systems in consumer applications.

The role: Software Developer Intern, Summer

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 passion for quality.

As a Software Engineering intern, you could end up working on our core products and services or those that support critical functions of our engineering operations. Depending on your background and experience, you will be working on a project 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.

Test Engineering - As an intern in the Test Organization, you'll use your software design, analysis and programming skills to create innovative automated test systems. This isn't an internship 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 text books that can help you learn this, which is why we have some of the best and brightest engineers working in this group.

Site Reliability - Interns working in Site Reliability are involved in every facet of Google's production site. 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. You are a genius at jockeying networks and administering UNIX clusters. You will tackle challenging, novel situations every day, and work with just about every other engineering and operations team in the process.

Responsibilities:

- Perform specific responsibilities which vary by project area.

Requirements:

- Currently pursuing a BS or MS in computer science or a related technical field.
- 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 a plus.

Software Engineering Intern, PhD, Summer - North America Locations

Please apply directly to the job with your unofficial transcripts:
http://www.google.com/intl/en/jobs/students/us/internships/eng/software-engineering-intern-phd-summer-north-america-locations/index.html

This position is based in Atlanta, GA; Boulder, CO; Cambridge, MA; Chapel Hill, NC; Chicago, IL; Irvine, CA; Madison, WI; Mountain View, CA; Montreal, Quebec; New York, NY; Pittsburgh, PA; Santa Monica, CA; Seattle/Kirkland, WA or Waterloo, Ontario.

Summer internships generally start in May-June and end in August-September

The area: Software Engineering
Google's Software Engineers develop the next-generation technologies for which we've become world-renowned. In addition to revolutionizing search technology, we use our world-class programming skills to innovate in a number of other areas as well. Our projects include working on advanced information-retrieval algorithms, massive scalability and storage solutions, and large-scale applications that enrich the user experience. We also work extensively on networking systems, advertising systems and complex transaction systems in consumer applications.

The role: Software Engineering Intern, PhD - Summer - North America Locations
You are a Software Engineer who's interested in solving interesting problems. Google is much more than search, and our mission has much greater scope. You will handle information at the scale of the web and have ideas from just about every area of computer science, including information retrieval, artificial intelligence, natural language processing, distributed computing, large-scale system design, networking, security, data compression, user interface design; the list goes on.

Responsibilities:

- Perform specific responsibilities which vary by project area.

Requirements:

- Currently pursuing a PhD in Computer Science or related technical discipline
- A solid foundation in computer science, with strong competencies in data structures, algorithms, and software design.
- Extensive programming experience in one or more of the following: C/C++, Java, Python (strong OO skills preferred).
- Large scale systems design experience with knowledge of Unix/Linux.
- Coding skills in Python or Javascript/AJAX, database design and SQL, and/or knowledge of TCP/IP and network programming are a plus.
- Research experience in Algorithms, Architecture, Artificial Intelligence, Compilers, Database, Data Mining, Distributed Systems, Machine Learning, Networking, or Systems preferred.
- Must be currently enrolled in a full time degree program and returning to the program after the completion of the internship

Software Engineering Intern, Summer - North America Locations

Please apply directly to the job with your unofficial transcripts:
http://www.google.com/intl/en/jobs/students/us/internships/eng/software-engineering-intern-summer-north-america-locations/index.html

This position is based in Atlanta, GA; Boulder, CO; Cambridge, MA; Chapel Hill, NC; Chicago, IL; Irvine, CA; Madison, WI; Mountain View, CA; Montreal. Quebec; New York, NY; Pittsburgh, PA; Santa Monica, CA; Seattle/Kirkland, WA or Waterloo, Ontario.

Summer internships generally start in May-June and end in August-September

The area: Engineering, Software Engineering
Google's Software Engineers develop the next-generation technologies for which we've become world-renowned. In addition to revolutionizing search technology, we use our world-class programming skills to innovate in a number of other areas as well. Our projects include working on advanced information-retrieval algorithms, massive scalability and storage solutions, and large-scale applications that enrich the user experience. We also work extensively on networking systems, advertising systems and complex transaction systems in consumer applications.

The role: Software Engineering Intern, Summer
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 penchant for quality. Winter internships generally start in January and end in March or April.

As a Software Engineering intern, you could end up working on our core products and services or those that support critical functions of our engineering operations. Depending on your background and experience, you will be working on a project 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.

Engineering Productivity - As an intern in the Engineering Productivity Organization, you'll use your software design, analysis and programming skills to create innovative automated test systems. This isn't an internship 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 text books that can help you learn this, which is why we have some of the best and brightest engineers working in this group.

Site Reliability - Interns working in Site Reliability are involved in every facet of Google's production site. 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. You are a genius at jockeying networks and administering UNIX clusters. You will tackle challenging, novel situations every day, and work with just about every other engineering and operations team in the process.

Responsibilities:

- Perform specific responsibilities which vary by project area.

Requirements:

- Currently pursuing a BS or MS in computer science or a related technical field.
- 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 a plus.
- Must be currently enrolled in a full time degree program and returning to the program after the completion of the internship.

New Grad Postings:
Associate Product Manager, New Grad - North America Locations

Please apply directly to the job with your unofficial transcripts:
http://www.google.com/intl/en/jobs/students/tech/fulltime/uscanada/associate-product-manager-new-grad-north-america-locations-1/index.html

This position is based in Mountain View, CA. or New York, NY.

The area: Product Management
One of the many reasons Google consistently brings innovative, world-changing products to market is because of the collaborative work between Product Management and Engineering. Each Product Manager works closely with a team of creative and prolific engineers to help develop technologies that improve access to the world's information. We're responsible for guiding products through the execution cycle, from conception and design through launch and iteration.

The role: Associate Product Manager, New Grad
The Associate Product Manager Program is an elite two-year rotational program, consisting of two one-year rotations, designed for top recent computer science graduates who are interested in exploring product development and leadership opportunities. This select group is given broad responsibilities, generous access to resources, visibility into Google's executive team and many opportunities to grow within the organization. The program combines on-the-job experience with additional training, mentorship, and support from current associates and the rest of the product team.
As an Associate Product Manager, you'll work with engineers to define new features and grow our products based on your understanding of user needs. You'll also conduct research on markets and our competitors, focus on strategies that impact the direction of future products and develop leadership experience in a variety of Google's product areas. Technical, analytical and strategic planning skills are vital to performing successfully in this position.

Responsibilities:

- Understanding and analyzing user needs
- Helping to define a product vision and strategy
- Working with world-class engineers to build and launch new features

Requirements:

- BA/BS in Computer Science (MS a plus)
- Deep interest in creating and analyzing products

- Excellent written and oral communication skills
- Strong organizational and analytical skills
- Strong technical abilities
- Demonstrated capacity for developing and understanding strategy

Software Engineer, New Grad - North America Locations

Please apply directly to the job with your unofficial transcripts:
http://www.google.com/intl/en/jobs/students/us/technical/software-engineer-new-grad-north-america-locations/

Positions available in Atlanta, GA; Boulder, CO; Cambridge, MA; Chapel Hill, NC; Chicago, IL; Irvine, CA;
Kirkland/Seattle, WA; Montreal, QC; Mountain View, CA; New York, NY; Pittsburgh, PA; Santa
Monica, CA. and Waterloo, ON.

Candidates graduating December 2011 to August 2012 are encouraged to apply.

Simply put, Google engineers make computers do amazing things. Populated by extraordinarily creative, motivated and talented people, our Engineering team gets excited by developing new applications that really make a difference and are used by millions of people. We're driven by Google's mission to organize the world's information and make it universally accessible and useful. If you seek to tackle such challenges as building a highly scalable computing infrastructure, novel storage systems, innovative user experiences or the next big application that will change the world, then this might be a perfect fit for you.

The Role: Software Engineer
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
As a software engineer in the Engineering Productivity organization, you'll use your software design, analysis and programming skills to create innovative automated testsystems. 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 text books that can help you learn this, which is why we have some of the best and brightest 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:

- Specific responsibilities vary by project area.

Requirements:

- BS degree in computer science or related technical field, MS and PhD degrees preferred.
- Experience with UNIX/Linux or Windows environments, distributed systems, machine learning, information retrieval and TCP/IP.
- Extensive experience programming in C, C++, Java and/or Python.
- Experience in network programming and/or developing/designing large software systems

Software Engineer, PhD New Grad - North America Locations

Please apply directly to the job with your unofficial transcripts:
http://www.google.com/jobs/students/us/technical/software-engineer-phd-new-grad-north-america-locations/index.html

These positions can be based in Irvine, Mountain View, or Santa Monica, CA; New York, NY; Pittsburgh, PA; Seattle or Kirkland, WA; Chicago, IL; Boulder, CO; Cambridge, MA; Atlanta, GA; Chapel Hill, NC; Montreal or Waterloo, Canada.

The area: Software Engineering
Simply put, Google engineers make computers do amazing things. Populated by extraordinarily creative, motivated and talented people, our Engineering team gets excited by developing new applications that really make a difference and are used by millions of people. We're driven by Google's mission to organize the world's information and make it universally accessible and useful. If you seek to tackle such challenges as building a highly scalable computing infrastructure, novel storage systems, innovative user experiences or the next big application that will change the world, then this might be a perfect fit for you.

The role: Software Engineering, New Grad
You are a Software Engineer who has a passion for solving interesting problems. Google is much more than search, and our mission has much greater scope. You will handle information at the scale of the web and have ideas from just about every area of computer science, including information retrieval, artificial intelligence, natural language processing, distributed computing, large-scale system design, networking, security, data compression, user interface design; the list goes on.

Responsibilities:

1. Write server-side code for web-based applications. You will develop prototypes quickly and create robust high-volume production applications.
2. Develop for specialist domains: client application development for Windows/Mac (Chrome, Toolbar, etc.), embedded systems and mobile apps (Android), developer tools (IDEs, large-scale build systems, compilers), infrastructure, internationalization, networking, and more.

Requirements:

1. PhD in Computer Science or related technical discipline.
2. A solid foundation in computer science, with strong competencies in data structures, algorithms, and software design.
3. Extensive programming experience in one or more of the following: C/C++, Java, Python (strong OO skills preferred).
4. Large scale systems design experience with knowledge of Unix/Linux.
5. Coding skills in Python or Javascript/AJAX, database design and SQL, and/or knowledge of TCP/IP and network programming are a plus.
6. Research experience in Algorithms, Architecture, Artificial Intelligence, Compilers, Database, Data Mining, Distributed Systems, Machine Learning, Networking, or Systems preferred.