IN TODAY’S COMPETITIVE MARKETPLACE, SUCCESS AT GOLDMAN SACHS IS INCREASINGLY DRIVEN BY OUR EXPERTISE IN TECHNOLOGY. OUR BEST-IN-CLASS TECHNOLOGY PLATFORM ENABLES US TO EFFICIENTLY MARKET PRODUCTS TO OUR CLIENTS AROUND THE WORLD. WE PRIDE OURSELVES ON BEING AN INDUSTRY LEADER IN THIS AREA.

LLOYD C. BLANKFEIN, CHAIRMAN AND CEO

TECHNOLOGY

Our application developers, system engineers and business analysts envision, build and deploy the innovations that drive our business and financial markets worldwide.

Our senior leaders like to say technology distinguishes the firm. From automated trading to risk analysis, managing data to protecting information and promoting environmental responsibility, they know that our commitment to best-in-class technology provides Goldman Sachs with a competitive advantage. That’s why the firm’s long-term investment in technology is unsurpassed within financial services.

Did you know?
- Technology is the largest division of Goldman Sachs, representing over a quarter of the firm. With a headcount of over 8,000, we are larger than many pure technology firms.
- Our technologists work in 31 offices across 15 countries, represent over 150 nationalities and speak more than 80 different languages.
- Our development teams have nearly 800 million lines of code in production.
- Our data center space totals almost 300,000 square feet—equivalent in size to almost 140 tennis courts—and we deploy 9.85 petabytes of SAN storage and 8.5 petabytes of NAS storage.
- We support over 50,000 IP telephones, and process more than 100 million unique e-mail messages per month.
- We developed a proprietary programming language and database platform, open-source Java collections library and software development lifecycle.
- Our daily risk calculations use a total of 47,000 CPUs to process more than 10 billion prices and execute more than 2.5 quintillion 64-bit instructions.

What we’re doing

In technology, the only constant is change, but these are a few of our current projects and initiatives:

**Network Desktop Solution (NDS)** is our internally-developed enterprise-scale private cloud, one of only two in financial services worldwide. Currently, we are developing a secure “hybrid cloud” provisioning framework, capable of deploying the NDS desktop to public IaaS cloud platforms.

**Lagoon Mobile Framework** is our in-house mobile development framework, which is portable across all major mobile operating systems, supports unmanaged devices, and provides common components, services and delivery mechanisms. Lagoon has been granted a provisional patent, and supports deployment from the Apple store.

**Goldman Sachs iPad Apps:** Our top-rated Global Investment Research app provides over 7,000 clients with access to research on more than 3,000 equity and credit securities. Secure Docs, a proprietary app developed by Banking Technology, makes the current version of a working document available on personal iPads.

**Open Source Development on GitHub:** GS Collections is an open-source version of our internally-developed Java collections framework. It introduces lambdas, an elegant syntax for passing and storing code blocks, currently in development in the JSR 335 Expert Group and slated for introduction in the next release of Java SE in late 2013.

**Gigabus** is a proprietary hyperscale data management architecture for declaratively storing and distributing large-scale WORM (Write Once Read Many) data. It supports parallelized data movement, data persistence and replay; and provides rule-based configuration, flow transparency and inter/intra-cloud transport.
How we work

Goldman Sachs Technology is responsible for full life-cycle systems implementation through our worldwide operations. Our technology business units are aligned to specific client businesses—sales and trading, banking, investment management and investment research—as well as firmwide operations such as legal, compliance, controllers and human capital management.

Our technologists work in close partnership with these businesses and their strategic partners to find the best technology solutions for both external and internal clients. We typically work in small to mid-sized teams, often globally distributed, focusing on specific tasks and projects. New hires and senior technologists work together in a flat structure where “the best idea wins.” Individual initiative is encouraged, and it is not uncommon for junior technologists to be given broad responsibilities.

Given the ever-changing nature of our business, we ultimately need our technology teams to adapt and respond to change quickly, while actively pursuing new opportunities. As a result, we expect their skill sets to evolve constantly over time, and provide many resources for our people to both learn new technologies and take on new roles and assignments.

Join our team

You can join our team as an intern, recent graduate or experienced professional. We offer a broad range of career opportunities for Application Developers, Infrastructure Engineers/Systems Professionals, and Technology Business Analysts/Project Managers. Our unique technical career paths extend to every level of the division, up to and including managing directors and partners. What’s more, given the range of technologies we need and the rate of technological change, the opportunities at Goldman Sachs will only continue to expand.

As an Application Developer, you will combine technical skills, business knowledge and creativity in the development of leading-edge software solutions for critical business needs. Job descriptions include creating a high volume, web-based trade processing architecture, and developing software applications for the firm’s various advisory and e-commerce initiatives. Application developers make up almost 70% of the division, reflecting our historical preference for building our software rather than buying it.

As an Infrastructure Engineer or Systems Professional, you will build, support and extend the firm’s global infrastructure, deploying, maintaining and securing our platforms, networks, data centers and desktops by designing resilient, competitive proprietary technologies. Disciplines include requirements definition, engineering, operations and information security, across various technologies such as networking, computing, storage, telephony, market data, structured cabling and multimedia.

As a Business Analyst or Project Manager, you will work closely with project teams and business clients to ensure that goals, expectations and deliverables are met, playing a central role in aligning the needs and capabilities of all stakeholders, and serving as a “translator” between them.

Visit goldmansachs.com/careers to learn more about Technology at Goldman Sachs.
Technology Division

2014 Asia Summer Analyst Opportunities

APPLICATION PROCESS
Complete the Goldman Sachs Apply On-Line application at www.goldmansachs.com/careers. You may express interest in up to three different location and division combinations through this application. The division selections are determined by the location you select. If you do not see the divisions that are of interest to you, please consider choosing an alternate location.

GOLDMAN SACHS FIRM OVERVIEW
The Goldman Sachs Group, Inc. is a leading global investment banking, securities and investment management firm that provides a wide range of financial services to a substantial and diversified client base that includes corporations, financial institutions, governments and high-net-worth individuals. Founded in 1869, the firm is headquartered in New York and maintains offices in all major financial centers around the world.

LOCATION
Hong Kong
Singapore

SUMMER INTERNSHIP PROGRAM
The Technology Summer Internship program is a 10 week program, starting in mid June and ending in August. The first couple of days will consist of general orientation to the division and the firm, after which you will be placed with your team for the summer. You will work on daily activities and projects with your team and attend divisional and technology-specific learning series presentations as well as networking events to help you form relationships with your fellow interns as well as managers within the division.

DIVISIONAL OVERVIEW
The Technology Division is comprised of business units which are aligned either directly to the Firm’s businesses and collaborate on various technology needs, or maintain the fundamental infrastructure of the Firm, which includes but is not limited to Information Security, voice technology, networks, email communications, and data storage capabilities.

The Technology Division includes application developers, system engineers and business analysts who envision, build and deploy the innovations that drive our business and financial markets worldwide. From automated trading to risk analysis, managing data to protecting information and promoting environmental responsibility, our commitment to best-in-class technology provides Goldman Sachs with a competitive advantage, and the firm’s long-standing investment in technology is unparalleled within financial services. The Technology Division represents approximately 25% of the Firm’s employee population and supports all of our offices globally.

QUALIFICATIONS
Technology Job Profiles
We recruit for 2 major job profiles within Technology: Application Developers, Infrastructure and Engineers/Systems Professional.

Application Developer
As an Application Developer, you will combine technical skills, business knowledge and creativity in the development of leading-edge software solutions for critical business needs. Job descriptions include creating a high volume, web-based trade processing architecture, and developing software applications for the firm’s various advisory and e-commerce initiatives.

Some of the technologies you may work with include JavaTM technology, C, C++, UNIX®, Microsoft® technology, Perl, XML, HTML, Visual Basic, VBScript and N-tier architecture, among others.

Infrastructure Engineer and Systems Professional
The Firm’s infrastructure is managed by the global Technology Infrastructure function, comprised of these primary areas of focus: Global Services, Business & Applications Solutions, Core & Franchise Infrastructure and Technology Risk.

As an Infrastructure Engineer or Systems Professional, you will operate the firm’s global infrastructure, building, maintaining and securing our platforms, networks, data centers and desktops by designing resilient, competitive proprietary technologies. Disciplines include requirements definition, engineering, operations and information security, across various technologies such as networking, computing, storage, telephony, market data, structured cabling and multimedia. Technology Infrastructure partners with application development, engaging directly with the business to ensure that requirements are understood, usage patterns analyzed and technology leveraged to enhance communications, collaboration and productivity.

Some of the communication protocols and cabling standards you may work with include: TCP/IP, iSCSI, InfiniBand, FCIP, NFS, SONET, WiFi, WIMAX, Twisted Pair, Ethernet, 802.11 and Category 6(a–e). Some technologies you may work with include: IP-based multi-channel contact centers, speech recognition and voice verification, VOIP, Wireless Voice, Trader Voice, Video over IP.
NAC, App Messaging, disk arrays, dual core CPUs and blade servers. Some languages you may work with include: Java, C++, C#, Apache Tomcat, JBOSS, XML, VB, SQL.

QUALIFICATIONS
We recruit for 2 major job profiles within Technology at the summer analyst level: Application Developers and Infrastructure Engineers/Systems Analysts. The fundamental skills that span both of these roles are technical knowledge, strong communication skills, team orientation and leadership skills.

Goldman Sachs, an equal opportunity employer, does not discriminate in employment on any basis that is prohibited by federal, state or local laws.