Washington University in St. Louis
School of Engineering & Applied Science

2013-2014

Engineering
Across Disciplines. Across the World.™

>> engineering.wustl.edu
We aim to prepare you for leadership roles.

Today’s college students want to have an impact and to make contributions toward solving national and international challenges in a variety of areas, including health, energy, environment, security and poverty. Just as important, they understand they are citizens of a global society.

What high school students may not know is that engineering has become a universal degree for those who enjoy math and science, no matter what career path they ultimately choose. You find today’s engineering graduates pursuing careers in medicine, law, business, architecture and public policy, as well as engineering.

Our engineering students see the connections between studying engineering and benefiting society, and they are innovative thinkers who want to work across disciplines to solve problems.

The School of Engineering & Applied Science at Washington University in St. Louis seeks to attract students who have the talents and desire to make a difference – students like those who are featured in this book. As you read about each of them, we hope you will see our school’s character, and our goals and ambitions for all of our students. We invite you to learn more about us online at engineering.wustl.edu, or follow us on facebook.com/WUSTLEngineering and Twitter (@WUSTLEngineers). We especially encourage you to visit our campus and meet with current students and faculty to see firsthand how we are working to solve some of the greatest challenges of the 21st century.

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Academic Programs

Engineering majors

Biomedical Engineering
Bachelor of Science in Biomedical Engineering
» bme.wustl.edu
Biomedical engineers have a tremendous impact on the lives of people around the world, developing lifesaving cures and improving quality of life. Studying biomedical engineering allows students the opportunity to learn the principles of engineering and biology to solve problems at molecular to whole-body levels. Undergraduate students work with engineering and medical faculty on projects ranging from surgical devices and imaging techniques to bioactive materials and drug delivery systems. Biomedical engineering graduates enter medical school or pursue advanced engineering degrees or industry careers.

Computer Science & Engineering
Bachelor of Science in Computer Science; Bachelor of Science in Computer Engineering
» cse.wustl.edu
Computing and computer communication drive innovation in science and medicine, business and industry, and media and entertainment. Students work with faculty to learn, design, and develop hardware and software systems that help us understand the world and improve quality of life. For example, they have developed systems that can detect potential security threats, created brain-computer interfaces allowing people to control robots directly with thoughts, and discovered models and tools for physicians to better understand and treat complex diseases.

Engineering minors

 » Aerospace Engineering
 » Bioinformatics
 » Computer Science
 » Electrical Engineering
 » Environmental Engineering
 » Mechanical Engineering
 » Mechatronics
 » Nanoscale Science & Engineering
 » Robotics
 » Systems Science & Engineering

90 programs and 1,500 courses offered each year to undergraduate students throughout the university

1,249 undergraduate students
120 full-time faculty
$150 million recently invested in new and renovated Engineering space

Engineering majors

Electrical & Systems Engineering
Bachelor of Science in Electrical Engineering; Bachelor of Science in Systems Science & Engineering
» ese.wustl.edu
In Systems Science & Engineering, students learn how to design control schemes for high-tech systems, such as fighter planes, missiles, medical robots, cars, and other systems. Students also learn techniques to manage manufacturing and business operations, including financial analysis, supply-chain networks, and operations schedules. In Electrical Engineering, students learn to use electrical phenomena to solve problems in medicine, communications, defense, and other fields that rely on information technology.

Energy, Environmental & Chemical Engineering
Bachelor of Science in Chemical Engineering
» ece.ee.wustl.edu
As home to the country’s first Department of Energy, Environmental & Chemical Engineering, our programs attract students interested in developing renewable energy sources, alleviating the shortage of clean water, improving air quality and understanding climate change.

Mechanical Engineering & Materials Science
Bachelor of Science in Mechanical Engineering
» mems.wustl.edu
Students studying Mechanical Engineering will work with faculty on topics ranging from energy conservation and environmental control to machine design, manufacturing and biomechanics. Our mechanical engineering students are educated about the mechanics of solids and fluids, thermodynamics and heat transfer, as well as the science of materials and the principles and techniques of mechanical engineering design.

Consider a Minor or Second Major
A majority of undergraduate engineering students pursue a minor or second major in engineering or other disciplines, such as economics, music, jazz studies, visual communications, political science, history, entrepreneurship, foreign language, dance, drama, psychology, or more than 100 other options.

Study of the Liberal Arts
You will have the opportunity to take a number of credits in the humanities and social sciences. We feel it is particularly important for engineering students to gain a deep understanding of other cultures and languages. Our Engineering Technical Writing Program teaches you oral and written communication skills that are critical to your future success.

Introduction to Engineering
The variety of our introductory engineering courses conveys the excitement and problem-solving thinking that characterize engineering. During your first year with us, you may take one or more of these courses to explore and help you select a major.

Engineering Freshman Seminar
This weekly one-credit seminar gives an introduction to the School of Engineering & Applied Science and helps prepare students for academic success.

Bachelor of Science/Master of Science (BS/MS) and Bachelor of Science/Master of Engineering (BS/MEng) Programs
This program is offered by some engineering departments and provides undergraduate engineering students with the opportunity to plan a coordinated five-year program of studies in the school, leading to both the bachelor’s and master’s degrees. The program requires at least 150 units and normally takes five years to complete.

Bachelor of Science/Master of Business Administration (BS/MBA) Program
The School of Engineering & Applied Science and the Olin Business School, one of the top business schools in the nation, offer a five-year program leading to the Bachelor of Science in Engineering degree and the Master of Business Administration degree. The program normally takes five years to complete.

Individually Designed Major (IDM)
Many of the most interesting and developing areas of engineering and applied science do not fit within a single undergraduate major. Students can create an Individually Designed Major (IDM) under the direction of a faculty advisor. Sample IDMs include biomedical informatics, imaging, energy engineering, robotics, computer graphics, and more.

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Engage in a global society

Home to the Department of Energy, Environmental & Chemical Engineering, Brauer Hall includes state-of-the-art laboratories, including electronically equipped collaboration points for students like Mariah to meet with other students and discuss undergraduate research projects.

“Since I am interested in combating global climate change, my study abroad program allowed me to work in one of the top research laboratories in Latin America and get hands-on experience with alternative energy research in Brazil.”

Mariah Cushman
HOMETOWN
Buenos Aires, Argentina & Truckee, California
MAJOR
Chemical Engineering
MINOR
Environmental Engineering
STUDY ABROAD
Campinas, Brazil
EXTRACURRICULAR
Campus tour guide, Society of Women Engineers, Freshman residential advisor

» View Mariah’s blog “WashU through the eyes of an undergraduate”: wustladmissionsmariah.wordpress.com

100+ study abroad programs offered in 50 different countries around the globe
Study Abroad &
International Experiences

Our engineering students have the opportunity to study abroad through the College of Arts & Sciences Overseas Programs, but there are also opportunities available only to engineering students — including summer-, semester-, or year-long study programs. Students can travel to further study engineering or pursue other cultural experiences to enhance academics through a second major or a minor.

For example, students have visited China to learn about biomedical engineering applications that have led to senior design projects. Some students have traveled throughout Asia to learn about nanotechnology, renewable energy and environmental technologies. Others have learned about medical imaging methods in Germany or participated in engineering programs in Israel. All of these programs, however, are unique to Washington University and offered exclusively for our engineering students.

Courses
WUSTL engineering students can also gain a global perspective without traveling abroad. Many courses within the engineering curricula include topics relevant to worldwide audiences, such as global climate change. Engineering students can also participate in the university’s Global Certificate program, an opportunity to develop global competence and learn practical skills through a diverse, interdisciplinary education.

“Engineering students have long been left out, because their more rigorous curricula are laden with required classes that keep them in the States. That’s beginning to change at schools like Washington University in St. Louis, where deans are identifying overseas programs that won’t derail science and math focused majors.”

— Newsweek, Sept. 19, 2011

Engineering-specific study abroad programs:* 

- Amman, Jordan
  Sustainable Technology
- Auckland, New Zealand
  Mechanical, Computer, and Electrical & Systems Engineering
- Beijing, China
  Biomedical Engineering
- Cape Town, South Africa
  Engineering
- Dublin, Ireland
  Engineering
- Edinburgh, Scotland
  Engineering
- Eindhoven, Netherlands
  Biomedical Engineering
- Herzliya, Israel
  Computer Science
- Hong Kong, China
  Biomedical Engineering and Energy, Environmental & Chemical Engineering
- Istanbul, Turkey
  Engineering
- London, England
  Engineering
- Madrid, Spain
  Engineering
- Mumbai, India
  Engineering
- Queensland, Australia
  Engineering
- Reykjavik, Iceland
  Renewable Energy
- Seoul, South Korea
  Nanotechnology

* List includes past and current programs.
The facilities, labs and campus resources are phenomenal, which have allowed me to conduct cutting-edge research. Even as an undergraduate student, my professors have encouraged me to collaborate with others to solve complex problems, and I’ve found their leadership and support foster a sense of unity, not competition, among students.”

In the Soft Nanomaterials Lab, Andrew is one of two undergraduate researchers who works along with other researchers and Assistant Professor Srikanth Singamaneni to explore new ways to synthesize biomimetic materials, electronics and biomedical devices. Andrew also is one of the founders of Sparo Labs, a biomedical startup company that developed a low-cost device to measure lung function that ultimately will benefit diagnosis and monitoring of respiratory diseases worldwide.

Andrew Brimer

HOMETOWN
St. Louis, Missouri

MAJOR
Mechanical Engineering

MINOR
Energy Engineering

ENGINEERING AWARDS
First Place: Discovery Competition 2013, NIH-NIBIB DEBUT Challenge 2012, EWH Design Competition 2012

ENTREPRENEURIAL INTERESTS
Co-founder of Sparo Labs

60% of Engineering undergraduate students engaged in research and independent projects with faculty

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<<Learn more about Andrew and Sparo Labs: youtube.com/WUSTLEngineering

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Improve quality of life by discovering knowledge
Research, Design Projects & Internship Opportunities

Through research, design projects and internship opportunities, you will have the opportunity to blend theory and practice, develop critical workplace skills, and earn a salary. A number of local companies, such as Boeing, MasterCard, Monsanto and Answers™, hire our students as interns and sponsor student projects.

Undergraduate students have numerous opportunities to participate with faculty on research projects, including helmet design for impact to the brain, assistive technology for people with cognitive disabilities, sensor signal processing on mobile robots, cell and tissue engineering for biomedical applications, the synthesis of nanomaterials for use in energy, and environmental technologies, new technologies, and devices for brain-computer interactions and so much more.

Sustainability Design

Students are participating in a pioneering project to make some university-owned housing more sustainable. The project is designed to find the most efficient way to renovate 1920s and ‘30s-era apartment buildings owned by the university’s nonprofit housing office to become more environmentally friendly. Buildings will be renovated in pairs, with one renovated using standard procedures and the other renovated using sustainable procedures. Over time, students will compare energy data from both buildings to determine the effectiveness of the sustainable renovations.

Independent Study

An independent study project by a chemical engineering undergraduate student led to the installation of an electric car-charging station outside of the new engineering complex. The student is collecting data from the charging stations to compare with data from a gasoline-powered and a hybrid car.

Biological Systems Research

Students also have the opportunity to do research in the Center for Biological Systems Engineering at Washington University. Research within the center focuses on modeling, predicting, and designing functions of biological systems that result from integration of signals and responses of biomolecular and cellular networks.

World-class faculty

Associate Professor Lan Yang recently received a Presidential Early Career Award for Scientists and Engineers — the highest honor bestowed by the United States government on science and engineering professionals in the early stages of their careers.

Professor Lihong Wang has received numerous awards and honors for his pioneering work inventing or discovering novel biomedical imaging technologies.

Watch videos online to hear from students working on undergraduate research projects: engineering.wustl.edu/undergraduateresearch
Sarah conduct brain computer interface (BCI) research in the Department of Electrical & Systems Engineering.

"My engineering classes have taught me critical-thinking skills that have helped my business succeed and have allowed me to bring a unique perspective to the table when making decisions with my business partner."

Sarah is a “salad entrepreneur” — visit her restaurant’s website: greenbeansalads.com, now open in St. Louis, Missouri.

>> number of entrepreneurship courses offered universitywide

67
Entrepreneurship & Innovation

Throughout the rich history of the School of Engineering & Applied Science, our faculty, students and alumni have both developed new concepts and implemented them. While the school continues to emphasize advances in theoretical knowledge, we also actively promote the application of new discoveries through enhancing the climate of entrepreneurism.

Annual Undergraduate Engineering Discovery Competition

Our engineering undergraduate students have the special opportunity to compete for $25,000 annually to help them develop prototypes and start companies.

Curriculum & Connections

The school offers courses on technology entrepreneurship, and students can minor in Entrepreneurism through the Olin Business School. The school connects Engineering students with alumni entrepreneurs and mentors to help students start and grow companies.

University Opportunities

- Bear Cub Fund Grants
- Bio-Entrepreneurship Core
- The Hatchery
- IdeaBounce®
- Olin Cup Competition
- Social Entrepreneurship
- Washington University Tech Entrepreneurs (WUTE)
- YouthBridge Social Enterprise and Innovation Competition (SEIC)

Select faculty, student & alumni companies:

- 825 Basics
- A1 Entertainment Service
- Answers™
- Appietyr
- Cardiaen
- Ettus Research
- Exgy
- GeoVerify
- Global Velocity
- Green Bean
- Kwame Building Group
- OsteoVantage
- Retectix
- Salesforce.com
- Sanergy
- Saturnis
- Say
- Sparo Labs
- Square, Inc.
- Third Rock Ventures
- Venrock Capital Ventures
- Willow Garage
- Xtend Energy

Answers™

David Karandish and Chris Sims, both 2005 computer science graduates in the School of Engineering & Applied Science, founded Announce Media, with the goal of better organizing the Internet consumer’s online retail experience. Now known as Answers™, the company is a profitable, global enterprise with a portfolio of search and community content-driven websites that help consumers find what they are looking for (Answers.com). With the company headquarters near Washington University, our Engineering students intern with the company and act as a ‘mini-CEO’ for one of its more than 150 vertical sites.

Square Inc.

Jim McKelvey, an alumnus of the School of Engineering & Applied Science, teamed with Twitter founder Jack Dorsey to start Square Inc., the largest mobile payment platform in the nation. More than 2 million vendors now use the startup’s technology. The company signed Starbucks Corp. as a merchant, bringing with it a $25 million investment.

Retectix

Matthew MacEwan, an engineering and medical student, founded Retectix, a company developing advanced surgical products using nanotechnology, such as a mesh used to repair injuries to the brain and spinal cord. Matthew received a $50,000 award through Washington University’s Olin Cup competition to help start his company. The Olin Cup is sponsored by Olin Business School and the Skandalakis Center for Entrepreneurial Studies at Washington University.

Washington University ranks No. 5 in the Princeton Review’s Top 25 Undergraduate Schools for Entrepreneurship Programs.

Washington University Engineering engineering.wustl.edu/entrepreneurship
Clinton Global Initiative University

Several School of Engineering & Applied Science student teams presented their commitments to action at the sixth annual Clinton Global Initiative University (CGI U) at Washington University.

CGI U, led by President Bill Clinton and Chelsea Clinton, brought together more than 1,000 college students with innovators, thought leaders and civically engaged celebrities to make Commitments to Action to address the most pressing challenges facing their campuses and communities in areas such as education, environment and climate change, human rights, poverty alleviation and public health.

Young Engineers Club

Each Tuesday, Engineering undergraduate students lead the after-school Young Engineers Club at Brittany Woods Middle School in University City. The club was started to reach out to middle school students from groups traditionally underrepresented in the science, technology, engineering and math (STEM) fields.

Each week, the group has a different lesson and hands-on activity, for which the institute provides supplies. One activity involved building a bridge out of paper that was strong enough to support a shoe. A lesson in speed and velocity allowed students to create rockets with balloons and string. Another lesson in bionics led to students recreating a hand using only cardboard, straws, string, paper and tape. The club’s greater purpose is to encourage students to study engineering.

Service Across the Globe

Engineers Without Borders/Engineering World Health partners with developing communities to improve their quality of life by implementing environmentally sustainable, equitable, and economical engineering projects while developing internationally responsible engineers and engineering students. Engineering World Health focuses on engineering problems related to medical technology. The groups projects across the globe assisting communities and populations in need.

>> Watch a video to learn more about the Engineers Without Borders project at Mekelle School for the Blind in Ethiopia: ewbwashu.org

>> Watch videos about CGI U and the Engineering teams that presented their commitments to action: engineering.wustl.edu/CGIU

75% of WUSTL students participate in community service
Student Organizations

WUSTL engineering students can choose to be involved in more than 200 student organizations and athletic teams. Our students are leaders in service organizations, student government, arts and cultural groups, and varsity athletic teams. You can also participate in preprofessional societies, religious groups and special-interest groups.

If you are looking for ways to reach out to the community, Washington University and its surrounding neighborhoods offer a variety of opportunities. Washington University students participate in campus-sponsored community service projects, such as Relay For Life, Dance Marathon, Alternative Spring Break, Service First, Give Thanks Give Back and various tutoring projects.

The School of Engineering & Applied Science encourages your involvement in extracurricular activities and organizations that add to the undergraduate experience, both academically and socially.

» Engineering Student Council (EnCouncil)
» Engineers Without Borders (EWB)
» Engineering World Health (EWH)
» Formula Society of Automotive Engineers (Formula SAE, known as WURacing)
» Institute of Electrical & Electronic Engineers (IEEE)
» National Society of Black Engineers (NSBE)
» National Society of Professional Engineers (NSPE)
» Society of Hispanic Professional Engineers (SHPE)
» Society of Women Engineers (SWE)
» Tau Beta Pi (TBP)
» Washington University Tech Entrepreneurs (WUTE)

> Watch the Formula SAE Race Team (WURacing) video: youtube.com/WUSTLEngineering
Onyi Oradiegwu

**HOMETOWN**
Houston, Texas

**MAJORS**
Biomedical Engineering, Master’s of Business Administration through the Dual Degree Program with Olin Business School

**EXTRACURRICULAR**
McKelvey Scholar, Consortium Fellow, National Society of Black Engineers leadership, Pre-College Initiative committee, Engineering My Future co-founder, club volleyball

**INTERNSHIP**
Baxter Healthcare

Onyi [third from left] attended the National Society of Black Engineers annual convention held in Indianapolis, Indiana. Nearly 10,000 Engineering students and professionals from across the country attended the event.

“I fell in love with the campus and the diversity. I wanted to go to a school that valued diversity and had a good mix so I could learn from other people. Our school is very collaborative. If I have a question, a friend will be happy to help me with it.*

300 student organizations, including sports clubs, fraternities and sororities, preprofessional organizations and student government associations

* Onyi Oradiegwu
Our students and faculty are nothing short of inspiring. The same can be said of our campus and location. Centrally located, it offers myriad opportunities for enrichment and exploration.

Adjacent to Washington University is Forest Park, one of the largest urban parks in the nation at approximately 1,400 acres. In addition to space for tennis, golf, baseball, skating, jogging, rollerblading, bicycling, boating and more, Forest Park includes several of St. Louis’ cultural institutions, including the Zoo, Science Center, Art Museum, History Museum [all with free admission] and the nation’s largest and oldest outdoor theater — The Muny. The park recently received $100 million in improvements, and it attracts more than 12 million visitors each year — especially for the many concerts, events and festivals held there, such as the Shakespeare Festival and The Great Forest Park Balloon Race.

Neighborhoods

» Central West End
» Clayton
» Forest Park
» University City (The Loop)

Inside the inviting Collegiate Gothic buildings that give Washington University its special “look,” you will attend classes in our lecture halls, seminar rooms, science labs, studios and language labs.

1,400

acres of land in Forest Park, located adjacent to campus
Aaron Zemach

HOMETOWN
Deerfield, Illinois

MAJOR
Computer Science

MINORS
Writing, Music

EXTRACURRICULAR
Suspicious of Whistlers improv comedy group, Tau Beta Phi honor society

AWARDS
A.E. Hotchner Award for Play Writing

RESEARCH
Human-Computer Interaction Research Group

“Washington University was a good place for someone like me who has an interest in engineering, writing and music. It’s a place that makes it very easy to take classes you want and to pursue the majors and minors that interest you.”

Aaron is a member of the Suspicious of Whistlers improv comedy group. They perform long-form improv, in which the audience suggests a topic, and the actors perform short plays based on that topic.
Career Opportunities

Our engineering students take different paths after finishing their undergraduate years at Washington University. Some pursue graduate or professional school for eventual careers in medicine, law or academia. Some immediately go into industry to pursue careers in engineering, business, public service and architecture. Others pursue careers while working toward a graduate-level degree part-time. No matter your ultimate career path, the experiences at Washington University will educate you to be prepared for graduate study and to be able to learn and adapt throughout your career.

The Career Center

As you progress through your academic program, you will begin to think about the next step. Our Career Center offers career counseling, help with job-seeking skills, and workshops on writing résumés, interviewing, and networking skills. The center includes a comprehensive career resources library and offers on-campus recruitment interviews with major local, national and international organizations. Our counselors work closely with you to help you obtain internship, co-op, and job placements appropriate to your career objectives, interests, abilities and preferences.

Reported starting salaries for 2012 Bachelor of Science graduates (by major)

<table>
<thead>
<tr>
<th>Major</th>
<th>WUSTL Average</th>
<th>National Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical Engineering</td>
<td>$66,500</td>
<td>$41,800</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>$68,250</td>
<td>$63,617</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>$71,000</td>
<td>$67,800</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>$64,500</td>
<td>$57,300</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>$61,500</td>
<td>$58,600</td>
</tr>
<tr>
<td>Systems Science &amp; Engineering</td>
<td>$62,000</td>
<td>$60,000</td>
</tr>
<tr>
<td>Computer Science</td>
<td>$77,500</td>
<td>$60,000</td>
</tr>
</tbody>
</table>


Select companies & organizations with Washington University graduates:

- Abbott Laboratories
- Accenture
- Anheuser-Busch InBev
- Answers™
- Bain & Company
- bioMérieux Inc.
- The Boeing Company
- Boston Scientific
- Burns & McDonnell
- Capital One
- Centene
- Chevron Corp.
- ConAgra Foods
- Deloitte
- Dow Chemical
- Emerson
- Environmental Systems Design
- Evgy
- ExxonMobil Corp.
- Ford Motor Company
- Garmin
- GE Healthcare
- General Mills
- Google
- Honda
- Lockheed Martin
- L’Oréal
- Matsersight
- Medtronic
- Microsoft
- MIT Lincoln Laboratory
- Monsanto
- Nestlé Purina PetCare Co.
- Novomed
- Peace Corps
- Pfizer
- Procter & Gamble
- St. Jude Medical
- Sigma-Aldrich
- Solae
- Teach for America
- United States Patent and Trademark Office
- Union Pacific Railroad

Anna Patterson
Vice President of Engineering, Google Inc.
Class of 1987

“Being at a school that was very integrated, both socially and academically, with a student body from all over, helped me become more well rounded, which I think is very important in becoming an entrepreneur.”

Jamal Hameedi
SVT Chief Nameplate Engineer, Ford
Class of 1991

“My job blends the technical side with the aesthetic and creative side. I work with the designers in the studio, and I also work with the engineers. We’re creating a car that’s not only beautiful, but one that has to perform as well.”

Deanne Bell
TV Host, Discovery Channel, PBS, DIY Network, National Geographic Channel, and ESPN
Class of 2002

“My degree taught me to ask the right questions, find the right experts, and find the right answers — and I can do that in pretty much any challenge I’m handed.”

James Mckelvey, Jr.
Co-founder, Square Inc.
Co-founder/Owner, Third Degree Glass Factory, Founder/President, Mira Digital Publishing
Class of 1987

“‘I’ve always felt that engineering is the best education you can possibly have, because it’s a problem-solving curriculum.”

Zoe Julian
Current medical student, previously a Biocompatibility Specialist at Boston Scientific
Class of 2009

“My engineering background has equipped me with skills and technical knowledge that I now use every day as a future physician, in both the hospital and the classroom.”
Financial Assistance, Scholarships & Admissions

Financial Assistance
We are committed to working with your family to understand your circumstances and provide the help you need throughout your undergraduate years. We offer a variety of financial assistance:

- No-loan assistance packages for families with low incomes
- Financial assistance awards that range up to the full cost
- Merit-based scholarship programs
- Need-based scholarships and other financial assistance
- Individualized attention with your own financial assistance counselor
- A commitment to helping you throughout your undergraduate years
- Let’s start the conversation early — we want to help

Contact Student Financial Services:
(888) 547-6670 or (314) 935-5900

Scholarships
Through the Engineering Academic Fellowship Program, the School of Engineering & Applied Science offers up to 12 merit-based fellowships to entering freshmen with exceptional promise. These awards are based solely on merit. Apply for them using the special application online or in the School’s brochure. Awards are for four years of undergraduate study; provided the recipient maintains a satisfactory academic record.

These include:
- up to four Alexander Langsdorf Fellowships (full tuition)
- up to four Calvin M. Woodward Fellowships (full tuition)

In addition to being able to apply for the Engineering Academic Fellowship Program, applicants to the School of Engineering & Applied Science are eligible to apply for a James M. McKelvey Undergraduate Research Scholar award to support working with a faculty member on a research project.

Other Academic Scholarships
Students may apply for the John B. Erwin Scholars Program and be considered for the Enterprise Holdings Scholar Program, as well as for the Annika Rodriguez Scholars Program — all of which enhance the overall quality and diversity of the student body. Engineering students may also apply for the Summer Scholars Program in Biology and Biomedical Research. Engineering applicants with an entrepreneurial spirit and vision may apply for the Entrepreneurial Scholars Program, a renewable annual scholarship of $23,000.

ROTC Scholarships
Army and Air Force scholarships, renewable annually, range up to full tuition, plus room and board, and a monthly tax-free allowance. For more information on Army scholarships, call (314) 935-5533, send an email to rotc@cec.wustl.edu, or visit rotc.wustl.edu. For more information on Air Force scholarships, call (314) 977-8227 or (800) 89-3048.

Admissions
We take your application for admission to Washington University very seriously. We review and assess each application individually and personally.

How do we make our admission decisions?
Students who come to Washington University have challenged themselves academically and personally during their high school years. Most candidates’ transcripts include four years of English, four years of mathematics (the School of Engineering & Applied Science recommends calculus), three to four years of history and social science, three to four years of laboratory science (the School of Engineering & Applied Science recommends biology, chemistry, and physics) and at least two years of a foreign language. Your senior-year transcript should show that you are continuing to take demanding courses and are doing well in them.

Most applicants take advantage of honors, Advanced Placement, and International Baccalaureate courses — if offered by their high schools. We also take into consideration standardized testing, letters of recommendation, extracurricular activities, and an essay.

Application Procedures
For specific details on how to apply, please refer to the 2013 Undergraduate Viewbook, visit our website at admissions.wustl.edu, or call (314) 935-6000 or (800) 638-1700.

International Students
For financial assistance information, see Financial Assistance for International Students at admissions.wustl.edu, or call (314) 935-6000 or (800) 638-1700 (within the U.S.).

For More Information
The Financial Assistance section of our website provides more information about financial assistance and financing programs. Applications and information about academic scholarships and fellowship competitions are included in our Scholarships brochure and can be submitted online through the wustl Pathway. For answers to specific questions, call the Office of Undergraduate Admissions at (314) 935-6000 or (800) 638-1700.

Nondiscrimination Policy
Washington University encourages and gives full consideration to all applicants for admission, financial aid, and employment. The University does not discriminate in access to, or treatment or employment in, its programs and activities on the basis of race, color, age, religion, sex, sexual orientation, gender identity or expression, national origin, veteran status, disability or genetic information. Inquiries about compliance should be addressed to the University’s Vice Chancellor for Human Resources, Washington University, Campus Box 1184, One Brookings Drive, St. Louis, MO 63130.

Contact Student Financial Services:
(888) 547-6670 or (314) 935-5900

Office of Undergraduate Admissions
Washington University in St. Louis
Campus Box 1100, One Brookings Drive
St. Louis, MO 63130-4899
(314) 935-6000 or (800) 638-1700 (within the U.S.)
Fax: (314) 935-4500
Email: admissions@wustl.edu
Web: admissions.wustl.edu

Engineering Admissions
School of Engineering & Applied Science
Washington University in St. Louis
Campus Box 1100, One Brookings Drive
St. Louis, MO 63130-4899
(314) 935-6000 or (800) 638-1700 (within the U.S.)
Fax: (314) 935-4501
Email: admissions@wustl.edu

For information about School of Engineering & Applied Science graduate programs, contact: gradengineering@b2ae.wustl.edu

Residential Colleges
You will also learn “at home” in our Residential Colleges. As a new student on campus, you will reside in one of the Residential Colleges — living/learning communities in the “South 40” residence hall area. Each Residential College comprises two or three buildings that form a single community. Your Residential College offers a variety of learning choices, from the Social Justice Series, which features lectures and discussions on issues of social justice and opportunities for community service, to the Faculty Associates Program, in which faculty members actively participate in dinners, lectures, sporting events, and intramural activities. Upper-class students can form a group with similar interests — ranging from cultural studies to community service — and apply to live in the Village housing complex on campus.

Office for International Students and Scholars (OISS)
To foster understanding among the many cultures represented on our campus, OISS arranges social, cultural, and recreational activities. For students from countries other than the U.S., we will help you get started. We issue certificates of eligibility (visa documents), and we offer personal and cross-cultural counseling, as well as a special program in English as a second language.

To Schedule a Visit
We encourage you and your family to plan a campus visit to see Washington University’s strikingly beautiful campus and the School of Engineering & Applied Science in action. Call the Office of Undergraduate Admissions at (314) 935-6000 or (800) 638-1700. You can ask to meet with representatives and tour the school.

Customize Your Visit
If you are thinking about combining areas of study, participating in athletics, putting an international spin on your college career, or if you have any other individual interests, we will incorporate those special elements into your campus visit. You can sit in on classes, have an on-campus interview, attend a meeting of a campuswide or engineering student organization, hear a concert, work out at the Athletic Complex, and meet our coaches. You can meet with a faculty member working in an area of interest to you, and tour our teaching laboratories. We also can arrange for you to meet with School of Engineering & Applied Science faculty and staff to answer any questions you might have about being a student here at Washington University.
If you receive more than one of this mailing or prefer not to receive paper mail, please contact the Office of Undergraduate Admissions.