Get Opportunity Description	Location, Season and Duration	Relevant Fields of Study and Example Opportunities	Program Activity Examples	Approximate Costs (excluding international travel and visa)
A research immersion program that enables participants to gain real-world industry experience through company and client collaboration, research projects, and problem solving to make for a unique experience with a global impact.	Chicago Midwest region Summer 2016 8-week session 2 start dates available	**Biochemical Engineering:** • Electrophysiology and electrical dynamics to make advances for brain conditions such as epilepsy and Alzheimer's disease • Case studies in isothermal and non-isothermal systems • Magnetic Resonance Imaging (MRI) to measure body mass differences **Aeronautical Engineering:** • Image processing and computer vision trends for mobile devices • Design and simulation of Multi-Band antenna system **Architecture and Urban Planning:** • Architectural robotics research and interactions with the environment **Physics, Chemical Engineering, Construction Engineering, Engineering Mechatronics, Computer Science and Technology, Hard and Life Sciences**	• Weekly guest lectures • Panel discussions • Networking events with US-Brazil company affiliations • Faculty-participant mentorship • Collaboration with esteemed professionals	$7,000
Combining classroom-based education with project research efforts, this opportunity allows computer science	Chicago Midwest region Summer 2016 10-week session	**Computer Science and Technology:** • Neural coding • Code documentation and research • Data analytics and front-end	• Regional and/or national conference presentation of final work • Project groups with	$7,300

participants from various experiential backgrounds to partake in group projects as well as independent research studies.		activity systems **Bioinformatics, Information Technology, Software Engineering, Communication Networks and Security**	faculty advisers • Peer-reviewed publication opportunities • Museum of Science and Industry retreat	
A unique program allowing participants to create their own project initiatives through an eight-week sequence, with the guidance of an adviser acting as a mentor in their field of study.	Southwest region Summer 2016 9-week session	**Agriculture and Biosystems Engineering** • Utilizing an ozone microbubble disinfection system for foodborne pathogens and plant particulates generated from washing fresh produce **Materials Science and Engineering** • Effects of coumarin fluorescent tag within thermoset epoxy adhesive on fluorescent properties and strength **Biomedical Sciences, Speech Pathology, Pharmacology, Social Sciences, Biochemistry, Mechanical Engineering, Nuclear Engineering, Telecommunications Engineering, Industrial Engineering**	• Workshops for communication, poster, and presentation skills • Graduate symposiums (if applicable) • Field trips to desert museums and local laboratories	$9,800
Innovative research at laboratories and start-up companies as well as classroom experiences led by faculty mentors and professionals.	Greater New York metro area Summer 2016 11-week session	**Biomedical Engineering:** • Stem cell behavior models via machine learning **Business/Finance:** • The study of progression from early stage companies to successful startups and large-scale corporations	• Featured speakers including industry professionals • Showcase presentations • Field visits to industry partners • Cross-cultural activities in metropolitan area	$8,600

		Electrical Engineering, Computer Science, Biomedical Engineering, Mechanical Engineering, Information Technology, Civil Engineering	(theaters, music, museums, etc.)	
With a focus on how engineering can be applied to a variety of industries, participants are introduced to organizations executing regional projects across industry segments and discuss the relevance of these segments to economic growth.	Upstate New York metro area Summer 2016 8-week session	**Engineering disciplines:** • Program is sectored off by weekly categories, these engineering opportunities include global manufacturing logistics, agricultural business, sustainable energy, and more, tying in the technical skills studied at the program's start. Weekly work includes classroom/lab time and small group settings paired with tours of regional projects	• Discussions on emerging industry sectors • Location tours and designated speakers • Career networking and leadership practices	$8,000
Individual research projects chosen by the participants based on their interests and skills. With 1-on-1 mentorship and support from professors and/or field professionals, participants will develop their skills and reach their academic goals by shaping their experience.	Mideast metro region Summer 2016 12-week session	**Electrical and Computer Engineering:** • Interpretation and learning of EEG key events and diagnoses **Civil and Environmental Engineering:** • Measure and evaluation of environmental impact and cost-effective means of control **Mechanical Engineering:** • 4D printing creation and design for transformative materials to adapt to stimuli such as light, temperature, etc. **Bio-Engineering:** • Promoting nerve growth for spinal cord restoration using freeze casting	• Seminars offered on design brainstorming, innovation, and professional development • Participant social events and networking • Research and project presentation courses	$7,300

		• Development of a stem cell differentiation protocol for lung tissue		
Conducting a focused research project experience within their field, participants will be exposed to the latest research methods in their respective field through direct mentorship with faculty and researchers.	Southeast region Summer 2016 10-week session	**Metallurgical and Materials Engineering** • Analyzing High Speed Steel (HSS) casting samples, relating production process to their mechanical properties for further quality control and processing improvement **Aerospace Engineering and Mechanics** • Manufacturing CFRP composite laminates and imbedding PZT sensors for mechanical fatigue testing **Architectural Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Construction Engineering, Electrical Engineering, Engineering Science and Mechanics, Environmental Engineering, Mechanical Engineering**	• Directed research four days per week • Weekly group excursions to local industries • Film/music events and a large Independence Day celebration	$8,000
Hands-on research experience while working with faculty in discipline with numerous opportunities for cross-cultural teamwork and communication, personal and	Southeast region Summer 2016 9-week session	**Industrial Engineering** • Maintainability & Quality Engineering, Transportation, Logistics and Distribution, Manufacturing and Automation, Engineering Management, building quantitative models to assess risk and measure resilience for a complex system **Mechanical Engineering**	• Weekly Dinner & Dialogue (Information Panel, research ethics, graduate program) • Tours and field trips to major industry corporations and companies • Introduction to graduate school	$8,000

professional development, and unique insight into graduate academic studies in the United States.		• Material Science, Robotics, Manufacturing, Mechanics and Controls, Motion simulation of planar mechanisms, 3D Printing **Exercise Science, Food Science and Food Engineering, Biomedical Engineering, Biotechnology and Ecological Engineering, Business, Management and Strategy, Chemical Engineering, Civil Engineering, Computer Science and Computer Engineering, Electrical Engineering, Exploration of Bio-mechanical Machines, Planetary Sciences, Supply Chain Management**	preparations	
Through learning and utilizing the Lean business method, participants will gain knowledge from both academic courses and experiential learning, while working with companies in the region. Participants will learn how to apply the tools needed for success in the U.S. professional culture. The program involves pairing participants with companies and professionals to work through a problem.	Southeast region Summer 2016: 4-week or 8-week session	**Biomedical Engineering** • Work with hospital staff to validate the department's facility design, confirm space requirements, develop and research instrument tracking with current hospital IT system, and review process flow between sterile process and surgery departments. **Industrial Engineering** • Examine options for optimizing manufacturing and implement a program to improve production efficiency. **Business & Communications, Engineering, Hard & Life Sciences, Arts and Design, Computer Science and Technology, Social Sciences,**	• Field trips to major corporations in the region (i.e. automobile manufacturers, online retailor distribution centers) • Cultural/recreational activities (i.e. trips to the Aquarium of the Smokies and access to other historical sites)	$5,500 (4 weeks) $8,000 (8 weeks)

		Health & Medicine		
Learn theoretical, experimental, and computational methods used in air quality monitoring and modeling. This program focuses on preparing engineers to solve real air pollution problems facing the world through hands-on learning and training.	Southeast region Summer 2016 9-week session	**Biochemical Engineering, Bioengineering, Chemical Engineering, Civil Engineering, Environmental Engineering** • Energy and the Environment, Ambient Air Quality Monitoring, Air Pollutant Emission Characterization, Air Pollutant Emission Factors, Air Pollutant Emissions Modeling, and Process Simulation/Optimization for Air Pollutant Emission Reduction	• Field visits to major corporations in the region (i.e. national space centers, storm and environmental centers) • Interaction with distinguished speakers	$9,000
Learn about the U.S. presidential election by following election and political news through an exciting course while interning with either the Democratic or Republican presidential campaign in a state that determines the election's outcome.	Cleveland area Midwest region **Fall 2016** **13-week session**	**Political Science:** • Internship focus areas include: Press, Management, Speakers' Bureau, Fund Raising, Office Management, Social Media, and Security	• Weekly guest speakers including national campaign operatives and surrogates • Grassroots campaigning • Campaign events	$ 8,500
Same as above	Cleveland area Midwest region **Fall 2016** **4-week session**	**Same as above**	**Same as above**	$5,500

This information is subject to change. IIE cannot guarantee that opportunities will be available at time of application.