>150 laboritories, research institutes and other specialized centers

4007 companies recruited at Illinois

$111.2 million in corporate support

6 Start-ups

203 US Patent applications

>43,300 total students

Students from all 50 states and 115+ countries

>425,000 living alumni
To be a pre-eminent public research university with a land-grant mission and global impact requires us to build more extensive networks and to reimagine public and private partnerships. Expanding existing corporate relationships and relentlessly pursuing new ones are essential in our ability to deliver on our promise to help solve the grand challenges of society.”

“..."
Corporate Engagement at Illinois

Corporate Engagement Working Group

- Phyllis Wise, Chancellor
- Ilesanmi Adesida, Vice Chancellor for Academic Affairs and Provost
- Peter Schiffer, Vice Chancellor for Research
- Dan Peterson, Vice Chancellor for Institutional Advancement
- Pradeep Khanna, Associate Chancellor for Corporate and International Relations

Academic units:
- College of Agricultural, Consumer and Environmental Sciences
- College of Applied Health Sciences
- College of Business
- College of Education
- College of Engineering
- College of Fine and Applied Arts
- College of Law
- College of Liberal Arts and Sciences
- College of Media
- College of Medicine at Urbana-Champaign
- College of Veterinary Medicine
- Graduate School of Library and Information Science
- School of Labor and Employment Relations
- School of Social Work
- The Graduate College

2014 Unit Corporate Contact Network

- Barry Dickerson, College of Agricultural, Consumer and Environmental Sciences
- Michael Biehl, College of Veterinary Medicine
- Jeffrey Woods, College of Applied Health Sciences
- Richard Tapping, College of Medicine
- Sharon Johnson, Graduate School of Library and Information Science
- Meredith Olson, School of Social Work
- Neil Madigan, School of Labor and Employment Relations
- Melissa McKilip, Institute for Genomic Biology
- Julie Pfeiffer, College of Business
- Lesa Brandt, College of Education
- Mary Susan Britt, College of Media
- Feng Sheng Hu, College of Liberal Arts and Sciences
- Roger Laramee, College of Fine and Applied Arts
- David Lipari, College of Engineering
- Robert Lawless, College of Law
- Gary Miller, Prairie Research Institute
- Scott Wilkin, National Center for Supercomputing Applications
- Krista Kimme, College of Applied Health Sciences

How OCR Engages the Campus

Corporate Engagement | Campus Partners
--- | ---
Engaging Students | Career Services Offices, RSOs, IPS, UIAA
Research | VCR, Research Deans, UCCs, OSPRA, OTM, Legal Counsel
Philanthropy | UCCs, Advancement, UIF, Research Deans, Academic Deans, Career Services
Targeted Solutions | UCCs, Research Deans, OSPRA, OTM
Professional Education | UCCs, Academic Deans, IPS
Tech Transfer and IP | VPR, OTM, OSPRA, Legal Counsel
Economic Development | VPR, Research Deans, EnterpriseWorks
Imagine a classroom in a tropical country with no air conditioning, students listening to their instructor for the entire class period, taking copious notes. They will need these notes when they are asked to repeat what their instructor said on an exam later in the semester. This is what a typical university is like in Myanmar, formerly known as Burma, located between Thailand and India in Asia. Some universities in Myanmar employ more progressive teaching methods, but most are severely constrained by a lack of resources and funding.

Yezin Agricultural University represents one of the more progressive higher education institutions in Myanmar. Located in the country’s capital of Naypyidaw, Yezin is fortunate to have a number of experimental fields on the university grounds that they can use in instructing and training students. Another unique feature of the school is that it offers hi-speed wireless internet throughout the campus.

Fortunately for Yezin, Wilmar International Limited, a leading agribusiness group headquartered in Singapore, views Myanmar as an attractive developing market and is leading an agribusiness initiative to improve the standard of living for billions of people. Given the high incidence of extreme poverty in many of these countries, this is an important issue that can significantly affect the global agricultural industry. Wilmar provided financial support for the initial trip and expressed interest in sponsoring additional travel to further cultivate the relationship between the two institutions.

Yezin and Wilmar are both members of the World Economic Forum Grow Asia partnership, a collaboration among a variety of stakeholders in the countries of Southeast Asia to address the issue of food security. The high incidence of extreme poverty in many of these countries, this is an important initiative to improve the standard of living for billions of people. The collaboration between the University of Illinois, Yezin, and Wilmar provides us with a unique opportunity to address a significant global issue while practicing our land grant mission of teaching, research, public engagement, and economic development.

A delegation of five professors from the College of Agricultural, Consumer, and Environmental Sciences traveled to Myanmar with two members of the Office of Corporate Relations to deliver a three-day symposium on the identified topics. This group will lead efforts to collaborate with Yezin and Wilmar to improve the preparation of Yezin graduates for the global agricultural industry. Wilmar provided financial support for the initial trip and expressed interest in sponsoring additional travel to further cultivate the relationship between the two institutions.

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Industry Drives University Partnership in Myanmar

At a time of accelerated change and shortened lifecycles for new technologies, businesses need to be able to monitor; evaluate the potential impact, and entrench themselves in understanding scientific and technological developments in a variety of fields. At the same time, employees want to ensure their understanding, preparedness, relevance, and value in an ever-changing landscape of tools and resources. The University of Illinois at Urbana-Champaign provides multiple channels of professional and continuing education.

These include online learning (asynchronous and synchronous) for degree and non-degree pursuits; customized courses delivered to individual industries or companies; and topic-specific summits and seminars. Companies turn to Illinois for education on topics as varied as Project Management, Text and Data Mining, User Interface Design, Competitive Intelligence, Food Science, Human Resources Development, Languages and many more.

Well-planned courses increase both employee satisfaction and productivity. One example of a successful course held in 2014 is the Midwest Agricultural Practices for Dow AgroSciences, through which eight faculty members from the University of Illinois are teaching the Midwest Agricultural Practices course on site at Dow AgroSciences in Indianapolis, IN. This course provides staff such as researchers, biotechnologists, and R&D lab managers who never have worked on a farm with an introduction to agronomy, plant breeding, soil science and other practices commonly used on Midwest farms. For courses taught on site, such as this one, an increasingly popular option is to involve company management in the training and make their examples and expertise part of the learning experience which makes the courses even more company specific.

Accessing Professional Education

Innovation and Technology Transfer

Innovation is a key factor for many of our corporate partners. Innovation is also a signature characteristic for Illinois. The campus is ranked #11 worldwide in granted U.S. patents for Universities. In an era of Open Innovation, opportunities are expanding for building industry-university relationships. The Office of Corporate Relations (OCR) has insights into key interests of corporate partners and facilitates innovation engagements by promoting connections with the Office of Technology Management (OTM) and collaborating on events and initiatives.

The first ever Silicon Valley edition of the campus technology showcase attracted 90 attendees from a diverse range of corporations, VCs and angel investors. Chancellor Phyllis Wise opened the event and College of Engineering Dean Andreas Cangelaris moderated with six faculty members presenting their research innovations and startups.

One way companies can interact with the campus in the innovation arena is to attend the next Share the Vision technology showcase, which is scheduled for October 2015. In addition, OCR and OTM can assist companies to engage with innovation on our campus in several ways including:

• Giving a guest lecture in an entrepreneurship course or other seminar series
• Sponsoring a new venture competition
• Becoming a member of the various “scientific advisory panels” for technology areas
• Helping provide commercial or industry perspective on technologies for commercialization
• Mentoring a startup
• Investing in Illinois startups
Leveraging Research

The Office of Corporate Relations provides transparent access to basic and applied research at the University of Illinois. The OCR makes connections and creates close working relationships between companies and faculty, staff and the variety of academic units, centers, and institutes across the campus that help companies fuel their continued competitiveness. In 2014, total corporate support totaled $111.2 million, representing an 11.1% increase over the previous year.

Industry/University Cooperative Research Centers (I/UCRC) are one example of research engagement at Illinois. These centers are catalyzed by a small investment from the National Science Foundation (NSF) and are primarily supported by industry center members, developing long-term partnerships among industry, academe, and government.

Illinois is establishing the Center for Computational Biotechnology and Genomic Medicine (CCBGM) as its newest I/UCRC. The CCBGM will combine the collective strengths in genomic research with the prowess in large-scale parallel systems and big data at Illinois, the University of Chicago and the Mayo Clinic to develop new technology that enables future genomic breakthroughs.

Corporate Support of the University of Illinois at Urbana-Champaign - FY10-FY14

Corporate Contract Support (1)
Corporate Philanthropic Support (2)

Footnotes:
(1) Actual expenditures of non-philanthropic corporate funds during the fiscal year provided by the Grants and Contracts Office.
(2) Total receipts from outright gifts, pledge payments, and grant payments as provided by the University of Illinois Foundation in response to the Voluntary Support of Education (VSE) survey.

ARI: Bridging the Gap between Basic Research and the Marketplace

At times, private sector and government mission-driven organizations need access to research scientists, programmers, and engineers to address mission-critical challenges. The needs may be open, confidential, proprietary, or even classified. Launched in late 2013, the Illinois Applied Research Institute (ARI) is a fast-growing addition to the resources available at the University of Illinois at Urbana-Champaign. The ARI bridges the gap between basic research and the marketplace. For our collaborators in the federal space, and the private-sector partners that serve them, this means focusing on Technology Readiness Levels 3 through 7.

The ARI is staffed by industry veterans and researchers who have extensive experience in providing custom translational research solutions in areas such as advanced materials and manufacturing, communications and cybersecurity, biotech, and Big Data. The ARI relies on a flexible business model to help private sector partners and government units develop and test new products or processes – or investigate gaps in understanding or providing solutions to critical issues. The ARI’s models of engagement include not only access to the people, but also to the infrastructure, facilities, and resources that enable even classified collaborations.

Over the past year, the ARI has had product development partnerships with Fortune 500 firms in the aerospace, automotive, and heavy equipment manufacturing industries. It provided expertise to small- and medium-sized firms, enabling them to be more competitive in their fields. Moreover, it also launched partnerships with the Department of Energy’s Lawrence Livermore National Laboratory and Sandia National Laboratories to collaborate on projects in complex systems, data science, digital manufacturing, and on-demand power. As the ARI grows its staff, it continues to increase its bandwidth to quickly and effectively meet the needs within commercial and government markets.

Corporate Support of the University of Illinois at Urbana-Champaign - FY10-FY14

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The training site at the University of Illinois measures 2100 square feet and boasts specialized equipment such as roller stations, Nordic ski ergs, and weights, most of which was made possible through the support of sponsor BP, which donated $160,000 toward the creation and on-going support of the new training site. "As a proud partner of the United States Olympic Committee, BP is honored to support the establishment of what we believe will be the top Paralympic wheelchair racing training facility in the world," said Corey Correnti, BP’s Chicago-based Vice President of marketing, sales, and supply. "We’re very excited to lend our support to the world-class program at the University of Illinois."

The University of Illinois wheelchair program has turned out such outstanding Paralympic athletes as Sharon Hedrick, Jean Driscoll, and Shawn Meredith. At the London 2012 Paralympic Games, athletes from the University of Illinois accounted for 10 of the 28 total U.S. track & field medals won. University of Illinois graduate Tatyana McFadden won three gold medals and one bronze medal, and University of Illinois junior Raymond Martin won four gold medals.

The wheelchair track & field program at Illinois is led by Adam Bleakney, the USOC 2013 Paralympic National Coach of Year award recipient. There are 22 athletes currently training at the site. Twelve are U.S. Paralympians, six are Paralympic medalists, and four are gold medalists. The 22 athletes collectively hold four world records, three nominations for ESPY awards, and wins in the Boston, London, Chicago, and New York City marathons.
Kraft Foods Invests in Food Coloring Research Project

Kraft Foods and the University of Illinois have enjoyed a long-standing partnership focused on innovation and collaboration. Two key elements of this partnership are the development and access to outstanding student talent, and focused consumer relevant research. Kraft has consistently invested in Illinois, supporting campus efforts to increase diversity and establish a strong pipeline of STEM talent, funding undergraduate scholarships for under-represented students as well as graduate fellowships.

Kraft’s investments are not only financial, but also include active Kraft employee participation in student symposiums, mock interview workshops and providing classroom and student program speakers. Similarly, the research engagements are collaborative in nature, involving frequent communications between Illinois faculty and Kraft scientists, leveraging equipment and resources both on campus and at Kraft, and financial support for an endowed professorship in Nutritional Sciences.

The newest Kraft-Illinois engagement is a just launched three-year research project focused on the economic and technical feasibility of extracting food colors from corn and incorporating them into food and beverages. “Our end goal is to develop cost-effective red and purple food colors derived from corn to deliver on some consumers’ preference for ingredients from natural sources,” said Nigel Kirtley, Vice President, Research and Supplier Integration at Kraft. “The outcomes of this research would also provide American farmers with another crop opportunity and highlight new ways the food industry and academia can collaborate in mutually beneficial ways.”

“We are always looking for ways to offer choices and remain relevant to consumers’ changing needs,” said Chuck Davis, Executive Vice President, Research, Development, Quality and Innovation for Kraft. “This includes everything from improved nutrition to simpler ingredients. We have made great progress but it truly is a long-term journey. That’s why we’re excited to announce our collaboration with the U of I that approaches the research process in such an innovative way.”

This project will bring together a wide range of interdisciplinary talent and technical expertise within the College of Agricultural, Consumer and Environmental Sciences, including the Crop Sciences, Food Science and Human Nutrition, Agricultural and Consumer Economics, and Agricultural and Biological Engineering departments. Jack Juvik, a U of I crop sciences professor and principal investigator for the project, concurs that this is a value-added opportunity for the ag industry. “Looking at the economics, corn has a sophisticated supply chain that allows it to go into many different products, so this is not about developing a special corn product grown only for colors. There is a lot of corn grown already, and producers know how to grow and process it.”

This collaborative effort will further advance U of I faculty engagement with Kraft Foods and the food processing industry, promote a pipeline for U of I graduates to explore internship and career opportunities with Kraft, and pave the way for future research opportunities between the company and the university. Kraft Foods is providing $1.4 million in funding to the College of ACES for the research project as well as an additional $150,000 in fellowships for the university. The company is one of North America’s largest consumer packaged food and beverage companies, with annual revenues of more than $18 billion.

We are always looking for ways to offer choices and remain relevant to consumers’ changing needs ... That’s why we’re excited to announce our collaboration with the U of I that approaches the research process in such an innovative way.

Chuck Davis
Executive Vice President, Research, Development, Quality and Innovation for Kraft

Because of the breadth of its programs, the University of Illinois at Urbana-Champaign is home to an immense catalog of expertise, equipment, and resources within its 17 colleges and schools and more than 150 centers and institutes. The OCR makes it easier for companies to discover what resources are available and helps them understand what agreements enable quick access to the specialized equipment and services located throughout the campus’ 647 buildings and 4,552 acres.

In 2014, more than 120 new projects were initiated with industry from within 39 departments and units ranging from Aerospace Engineering, Crop Sciences, Food Science & Human Nutrition, the Materials Research Lab, and the National Center for Supercomputing Applications – just to name a few. These new agreements added to the more than 200 projects already active and underway with our private sector partners.

The College of Veterinary Medicine is generating solutions for a healthier world in the 21st century. Along with professional and graduate degree programs, they offer a range of engagement programs. These include a full-service animal hospital and diagnostic laboratory in Urbana, as well as pathology services for Chicago-area zoos. Faculty, research scientists, clinical staff, and students work in partnership with the veterinary pharmaceutical and pet food industries in clinical studies. With owner consent in client animals, the efficacy and safety of novel treatments can be validated – with a potential future benefit to millions of pets.
The University of Illinois grew a little larger when the campus opened its first international office in Shanghai. The office, which currently has two employees, is charged with establishing relationships with Chinese companies to increase the number of internship and full-time opportunities available to students and graduates returning to China. The team will also market a number of leadership development programs offered on campus.

The office is located within the State of Illinois China Office, which was established in the 1980s to promote trade and non-commercial ties between the State of Illinois and China. The State of Illinois is a collaborator with the US Department of Commerce. The office is located in the Shanghai Center, a prestigious and central location in Shanghai.

The University of Illinois has an extensive and strong history with China which started in the early 1900s when President James spearheaded an agreement with China to encourage Chinese students to study in the US. Today, almost 5,000 students at the University come from China and many hope to return there to work after they graduate with their degrees.

Already the members of the Shanghai Office have reached out to many alumni and provided some logistical support for alumni gatherings and activities. "The alumni in China are excited to help to maintain the strong reputation of the University of Illinois in China. They have been very welcoming to us," one employee noted. The office also played an important role in the planning of the first incoming student orientations held in China in three cities: Shanghai, Beijing, and Guangzhou. In addition, they have established relationships with some significant recruiting firms, which is the first step in identifying job and internship opportunities for students and graduates in China.

The Shanghai Office was the University of Illinois' first international office but the University has already applied to open a Liaison Office in New Delhi, India. Once government approval is received, the University will move quickly to establish the office and begin connecting with alumni, corporations, and other potential partners in India.

In November of 2014, Business Career Services and Engineering Career Services hosted the first International Career Forum, a full-day event for companies interested in recruiting international students which included a three-hour career fair. The career services offices collaborated closely with a number of student groups, including the Chinese Students and Scholars Association. Company participants were able to learn more about recruiting best practices at Illinois and also meet international student leaders.

The event served the following purposes:
- To connect international companies with recruiting practices at Illinois and with key student groups
- To provide international students with internship and employment opportunities both within and outside the US, particularly in their home countries
- To introduce domestic students interested in international opportunities to companies with relevant positions

Companies incurred no cost to attend, and were invited to hold interviews and individual meetings with students the following day. Competition among international students for admission to the University of Illinois is fierce, so the students who are accepted bring with them significant talent and knowledge. Many of these students take on leadership roles throughout campus, including student organizations and other university programs and initiatives.

The International Career Forum demonstrates just one way that companies can engage with students. The Office of Corporate Relations works closely with career services to help companies connect with students. Career services offices across campus offer career fairs and on-campus interviews for companies interested in hiring students for internships or full-time positions. In addition to employment relationships, companies can also engage with students through coursework such as senior design projects, scholarships for students who meet specified criteria, speaking in classrooms on topics related to a course, or working with student organizations by participating in and/or sponsoring events and activities. Companies that interact closely with students often find that they are able to identify those students that would be a good fit to join the company post graduation.

2014 career services statistics:
- 13,688 interviews
- 47,346 students
- 17,976 internships/job postings
University of Illinois welcomed Dr. Tawfik Y. Sharkasi as the C-Suite Executive in Residence (CEIR) program last August. The program makes expertise of a current or recently retired C-Suite officer from a major U.S. corporation available to the campus community to help them understand how to build win-win partnerships with our corporate stakeholders.

Dr. Sharkasi is Wrigley’s former CSO/CTO and recently retired from Wrigley having spent the past several years as the Vice President of Innovation, Asia Pacific where he more than doubled the size of the organization with focus on building local talent through engagement with universities globally and internal training programs. Dr. Sharkasi also developed a blueprint for new Wrigley Innovation Center in China which will be the company’s first outside the US. He has 30 years of global experience in leading R&D functions for multinational food companies (Nestle, Kraft, PepsiCo, and Wrigley) in four continents. His record of successfully leading fundamental research, product development, business development, and manufacturing has solidified his professional reputation and expertise in the food science industry.

Dr. Sharkasi graduated from Penn State in 1984, earning a doctorate in Food Science. He received his master’s degree in 1979 from Washington State University and his bachelor’s degree from the University of Tripoli, Libya, both in Food Science.

Roger VanHey, Director of Corporate Relations and coordinator of this year’s CEIR program, remarked that “Tawfik is an instrumental part of the progression of the CEIR program and the Office of Corporate Relations. The opportunity for our campus to receive guidance from a senior corporate leader is irreplaceable. We are able to interact better with companies, highlight our programs more efficiently, and discover how we can improve from a company perspective – all without losing sight of our mission. His forward thinking will help define the future of this program and his expertise in the food science industry will offer a fresh approach to corporate-campus relationships.”

One of Dr. Sharkasi’s key projects is to help the Department of Food Sciences and Human Nutrition execute a strategic planning exercise. He has been providing information and helping to facilitate some sessions while providing input from a corporate perspective. Dr. Sharkasi will also interact with the campus entrepreneurial organization and spin out companies to provide industrial insight and advice from an industry perspective.

As in other areas, 2014 was a successful year relative to OCR’s contributions to economic development in Champaign – and elsewhere in Illinois. In addition to the tremendous growth of Yahoo!, four new corporate operations opened in the Research Park. These included:

- Grainger – a Fortune 500 distributor of industrial supplies, MRO equipment, tools and materials headquartered in Lake Forest, IL
- AbbVie – a global, research-based biopharmaceutical company headquartered in North Chicago, IL
- Foxconn Interconnect Technology Limited – an electronics/optoelectronics firm focusing on customers in computers, communication equipment, consumer electronics, automobiles, industrial and green energy field products and headquartered in Taipei, Taiwan
- Turn - helps power the world’s largest advertisers and trading desks through technology that delivers real-time data insights on campaign performance, headquartered in Redwood City, CA

Working with our partners in state and regional economic development, OCR also contributed to efforts to secure the decision by Sweden-based SKF to build their Global Technical Center Americas facility in Naperville, Illinois, and with Cronus Chemicals to building their $1.4 Billion fertilizer plant in Tuscola, Illinois. Both will add several thousands of construction jobs in Illinois and several hundred fulltime jobs when the projects are completed.

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