The thriving entrepreneurship ecosystem at the University of Illinois at Urbana-Champaign is an indispensable agent of economic development in the state of Illinois, with impact across the nation and the world.

The establishment of the Office of Innovation and Entrepreneurship in the College of Engineering in 2018 plays a pivotal role in supporting the collective vision and fundamental goals of “The Next 150,” the University’s strategic plan to foster innovation and entrepreneurship.

As we enhance the capacity of our ecosystem through investments in EnterpriseWorks, Research Park, Discovery Partners Institute, and the Illinois Innovation Network, we affirm our commitment to establish Illinois as one of the best university-based entrepreneurship and innovation hubs in the country.

ANDREW SINGER
Associate Dean for Innovation & Entrepreneurship
College of Engineering
Fox Family Professor
Electrical & Computer Engineering

The University of Illinois at Urbana-Champaign has a vibrant and rapidly evolving entrepreneurial network with deep connections to our alumni and partners across the state and the nation.

The Technology Entrepreneur Center (TEC) continues to play an instrumental role in accelerating the growth of the Illinois entrepreneurship ecosystem through programs like the Cozad New Venture Challenge; courses in innovation, leadership, and engineering entrepreneurship; mentoring, and other resources.

Students have many opportunities to engage in entrepreneurship to further develop, build, and apply their skills, as well as network with peers, instructors, alumni and other guest lecturers and collaborators.

We are committed to increasing the scale and reach of our entrepreneurship ecosystem to best promote the entrepreneurial mindset across disciplinary lines.

JED TAYLOR
Executive Director
Technology Entrepreneur Center
### Entrepreneurship Ecosystem at Illinois

**CAN WORK FOR YOU**

#### Entrepreneurship Discovery
- Entrepreneurship Courses, Certificates and ILEE BS Degree
- Entrepreneurship Treks
  - Silicon Valley Entrepreneurship Workshop
  - Chicago Entrepreneurship Workshop
  - ThinkChicago
- Innovation Living-Learning Community (Innovation LLC)
- Technology Disclosure
- Entrepreneurship Forum
- Entrepreneurship Lectures and Workshops
  - V. Dale Cozad Lecture
  - Startup Cafe
  - How I Failed Lecture Series
- Entrepreneurship Student Organizations
  - Founders
  - EntreCORPS
  - Entrepreneurs Without Borders

#### Company Funding
- AWARE (Accelerating Women And underRepresented Entrepreneurs)
- Illinois VENTURES: Venture Capital Outreach
- Urbana-Champaign Angel Network (UCAN)
- SBIR and STTR Technical Assistance Program
- Share the Vision: Innovation and Startup Showcase

#### Startup Ideation & Validation
- Faculty Entrepreneurial Fellows (FEF)
- Illinois Innovation Prize (IIP)
- Intellectual Property Clinic
- Illinois Proof-of-Concept Program (I-POC)
- SocialFuse: Find Teammates
- Cozad New Venture Challenge
- NSF I-Corps at Illinois
- I-Start Entrepreneur Assistance Program
- iVenture Accelerator
- Office of Technology Management Licensing

#### Company & Team Formation
- EnterpriseWorks
- Grainger IDEA Lab (Innovation, Discovery, Design, & Data Laboratory)
- Research Park
- Siebel Center for Design (designcenter.illinois.edu)
- Maker Spaces at Illinois
  - Illinois MakerLab (makerlab.illinois.edu)
- CU Community FabLab (cucfablab.org)
- ECE Open Lab (openlab.ece.illinois.edu)

#### Innovation Spaces
- Origin Ventures Academy for Entrepreneurial Leadership (business.illinois.edu/ael)
- Entrepreneurship Forum (go.illinois.edu/eforum)
- Illinois VENTURES (illinoisinventures.com)
- Innovation LLC (TEC) (go.illinois.edu/innovationLLC)
- iVenture Accelerator (iventure.illinois.edu)
- Office of Technology Management (otm.illinois.edu)
- Research Park (researchpark.illinois.edu)
- Technology Entrepreneur Center (TEC) (tec.illinois.edu)

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These resources are managed by University of Illinois staff and are intended to primarily serve students, faculty, and staff of the Urbana-Champaign campus.
SOCIALFUSE

**Looking for teammates?** SocialFuse is a recurring pitching and networking event that brings students, faculty, and community together from a variety of majors and backgrounds. Attendees pitch their startup ideas, find teammates, improve presentation skills, and get feedback. The event begins with a round of short pitching and idea sharing followed by informal networking.

**Impact**
- Held 3-4 times per year across campus to encourage interactions among a wide variety of majors
- 20 SocialFuse events total have been held
- Students with skills and students with ideas can form teams
- 80+ ideas are pitched and about 800 students attend each year
- 400 ideas have been pitched
- 2,500 total attendees to date
- Since 2013, many successful teams have been formed

SILICON VALLEY ENTREPRENEURSHIP WORKSHOP

The annual, week-long Silicon Valley Workshop exposes students to technology entrepreneurship, innovation, and leadership and continues to build an entrepreneurial community at Illinois.

This educational trek features corporate leaders, venture capitalists, and entrepreneurial alumni in various stages of a startup lifecycle that share lessons learned about entrepreneurship.

**Visits have included:**
- C3 IoT with Tom Siebel
- Fetch Robotics with Melonee Wise
- Yelp with Jeremy Stoppelman
- Affirm with Max Levchin
- NetSpeed Systems with Sundari Mitra
- Gigster with Roger Dickey
- Malwarebytes with Marcin Kleczyński
- Bloom Energy with KR Sridhar
- Graall with Jeff Huber
- Gradient Ventures at Google with Anna Patterson
- Optimizely with Pete Koomen
- Qool Therapeutics with Beverly Huss
- Vocareum with Sanjay Srivastava
- Lightform, Google, Greylock Ventures, a16z, and many more

**Impact**
- 250+ students have participated since the first workshop was held in 2009
- 25 students attend each year
- 100+ alumni have participated in a presentation or panel discussion since inception
- Students who attended previous workshops are now hosting current students at companies in Silicon Valley as alumni
- Unique engagement opportunity for alumni
The campus-wide Cozad New Venture Challenge, held annually since 2000, is designed to encourage students to create new businesses. The competition provides mentoring to teams through the phases of venture creation; workshops on idea validation, pitching skills, and customer development; and courses to enhance their skills and knowledge. In 2018, more than $200k was awarded in funding and in-kind prizes. The awards are funded through sponsorship, alumni donations, and campus partners.

**Impact**

In 2018:

- 80 teams competed in Cozad with 165 students participating
- 11 colleges represented across campus
- All 12 engineering departments represented
- 56 judges involved in Cozad
- 1,113 mentoring hours
- 11,508 contact hours
- 33 alumni involved in Cozad

**Recent Success Stories from Past Cozad Participants**

- **Trala** won the 2018 Cozad Grand Prize. Trala is a Juilliard-approved app that teaches users how to play the violin. It claims to be the only app that can actually listen while you play violin and give real-time feedback with its proprietary real-time audio processing technology. Trala raised $1.29 million in seed funding in December 2018. trala.com

- **Lightform** Lightform won the 2014 Cozad Grand Prize. Lightform is a design tool that makes it easy for anyone to create epic visuals for projected Augmented Reality using content creation software powered by computer vision hardware. Lightform has raised close to $8 million in funding and sold over $3.6 million in product to date. lightform.com

- **Cast21** Cast21 competed in Cozad in 2015-16. Cast21 makes an innovative lattice structure cast which is waterproof and breathable. This eliminates the main causes of patient complaints and complications associated with traditional casts. The team has raised $800K in funding. cast21.com

- **Reconstruct** won the 2nd Place prize in 2015-16. Reconstruct provides quick and easy access to actionable and predictive construction performance analytics via already-existing images captured with drones or ground cameras and 3D building models. They have raised $2.4 million in seed funding. reconstructinc.com
ILLINOIS INNOVATION PRIZE

This prize is awarded annually to an innovative student working towards solving global and societal challenges with the potential for a significant positive impact on the world. The student selected is a creative and passionate innovator, displays a lifetime of innovation, has an entrepreneurial mindset, and inspires others.

Kathleen Hu (2018 winner) was a senior in Industrial and Enterprise Systems Engineering when the prize was awarded. She is also founder of Dibbs, a technology platform and organization to connect excess food at grocery stores to local food pantries. Dibbs is on a mission to reduce food waste while fighting hunger.

Impact

- 2019 marks 12 years of celebrating student innovators
- $300,000 has been awarded to student innovators since 2007
- Canan Dagdeviren (2014 winner) won for her development of implants capable of gathering, storing, and converting the energy produced by the beating heart, the diaphragm, and lungs into electricity. She recently won Ten Outstanding Young Persons of the World (TOYP) by Junior Chamber International (JCI) in the Medical Innovation Category.
- Kevin Karsch, Brett Jones, & Raj Sodhi (2012 & 2013 winners) won for their individual work related to projected augmented reality. They all teamed up to create Lightform, the first computer made for projected augmented reality/projection mapping. To date, the company has raised $1.65M and recently launched their first product.
- Patrick Walsh (2008 winner) went on to found Greenlight Planet, which develops and manufactures honest, reliable solar products designed to help people living off the electric grid. The company has raised approximately $24M in funding. Greenlight Planet products are used in 5M+ off-grid homes with 18M+ daily users in over 50 countries.

FACULTY ENTREPRENEURIAL FELLOWS (FEF)

The FEF program will combine the wealth of experience of our successful alumni with our most innovative faculty to create a unique environment for faculty and student entrepreneurship and redefine the role of the modern research university in the innovation and technology commercialization landscape. This is an opportunity in which the university recognizes and celebrates faculty as innovators and entrepreneurs. The FEF program is funded through generous gifts from entrepreneurial alumni. In the program, faculty members focus their efforts on proving out the viability of their innovations entirely within the university ecosystem. With $50k, release from teaching and other obligations, an alumni advisory board, and a group of selected students, the team explores the commercial potential of the technology in a 12 month period. Additionally, an opportunity is created for students to participate, and earn credit for their part in the process.

Impact

- Mani Golparvar and his Reconstruct team raised over $2.4 million in venture capital funds to date
- Scott White's students competed in and won the campus-wide Cozad New Venture Challenge in 2017 with Autonomic Energy Systems
- Xiuling Li received an NSF AIR-TT proof of concept grant in 2017, receiving $250,000 in proof of concept funds

FEF ALUMNI

- Jean Paul Allain: Associate Professor, Nuclear, Plasma & Radiological Engineering
- Andrew Smith: Professor, Bioengineering
- Jianjun Cheng: Associate Professor & Willett Faculty Scholar, Materials Science & Engineering
- Scott White: Professor, Aerospace Engineering
- Xiuling Li: Associate Professor, Electrical & Computer Engineering
- Patrick Walsh: Professor, Electrical & Computer Engineering
- Mani Golparvar-Fard: Assistant Professor, Civil & Environmental Engineering
- John Rogers: Professor & Swanlund Chair, Materials Science & Engineering

The TEC Programs

- ILLINOIS INNOVATION PRIZE
- FEF ALUMNI
- FACULTY ENTREPRENEURIAL FELLOWS (FEF)
INNOVATION, LEADERSHIP & ENGINEERING ENTREPRENEURSHIP (ILEE) BS DEGREE

The Innovation, Leadership, and Engineering Entrepreneurship (ILEE) degree in the College of Engineering isn’t just for students who want to create a startup—it helps create entrepreneurial-minded leaders which are in demand by large companies as well. The ILEE degree accelerates engineering students’ understanding of the innovation ecosystem and processes involved in identifying complex technical problems, and then leading efforts to developing value-creating solutions. This degree is currently offered as a dual degree to existing students in the College of Engineering.

**Impact**
- Adds value to primary engineering degree by adding entrepreneurial and leadership skillset
- Launched in the Spring 2017 with first anticipated graduates in Spring 2018
- Close cross-campus collaboration with courses taught by faculty from Engineering, Business, Art + Design, and others
- Strong emphasis on hands-on experiential learning with opportunities for students to earn credit working on their own startup, or other extracurricular project

**TEC COURSES**

Whether students have a great startup idea or want to accelerate their career, entrepreneurial thinking changes the way they see the world and how they tackle problems. Here is a small sample of TEC courses which teach students how to think like and become entrepreneurs.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 250</td>
<td>High Tech Ventures: From Idea to Enterprise</td>
</tr>
<tr>
<td>TE 333/598</td>
<td>Creativity, Innovation, &amp; Vision</td>
</tr>
<tr>
<td>TE 398</td>
<td>Innovative Software Startups: Software as a Service (SaaS)</td>
</tr>
<tr>
<td>TE 398</td>
<td>From Bootstrapping to Venture Capital: A Practical Guide to Funding Your Startup</td>
</tr>
<tr>
<td>TE 401</td>
<td>Developing Breakthrough Projects</td>
</tr>
<tr>
<td>TE 565</td>
<td>Technology Innovation &amp; Strategy</td>
</tr>
<tr>
<td>TE 566</td>
<td>Finance for Engineering Management</td>
</tr>
</tbody>
</table>

**CERTIFICATES**

TEC offers four certificates—two for undergraduate students and two for graduate students. Each certificate requires students to take one or two core classes and a combination of elective courses or experiences within TEC and/or the University.

**INNOVATION**

This certificate program is designed for students whose interests and abilities are in entrepreneurship, innovative product design, and transformative technical products and services. The program consists of a set of courses that have been designed to encourage students to become more innovative and to generate ideas that have the potential to be breakthrough new products.

**TECHNOLOGY COMMERCIALIZATION**

With an emphasis on creativity and innovation, this certificate program provides students with the knowledge base needed to explore various options for commercializing technology, which is becoming increasingly important for engineers and scientists to understand. The courses allow students to gain a general understanding of the technology commercialization landscape, and how to apply that knowledge.

**BUSINESS MANAGEMENT FOR ENGINEERS**

This certificate is a graduate level program designed for students with an engineering or technology background who aspire to rise in management, make higher level strategic business decisions, and hone leadership skills. This certificate will provide students with the tools necessary in proposing and managing initiatives and evaluating technology innovation from a business standpoint. These courses are applicable to students who are/want to be entrepreneurial in starting a company, working for a startup, or bringing business management skills into their career at an existing company.

**STRATEGIC TECHNOLOGY MANAGEMENT**

This certificate is a graduate level program for students with an engineering background who aspire to lead a venture, make higher level strategic technology/business decisions, and develop leadership skills. This certificate will help students understand how to incubate new ventures, and participate in the process of innovation and market adoption within corporate environments. These courses are applicable to students who are or want to be entrepreneurial in starting a company, working for a startup, or bringing strategic technology management skills into their career at an existing company.
TEC leads the NSF I-Corps (National Science Foundation Innovation Corps) at Illinois programs and offers campus teams both Site and Node programs. The Site program offers four on-campus programs a year where teams receive $2,000 to cover travel and prototyping costs to facilitate customer discovery activities. The Node program focuses on delivering sector-specific programs (ag-tech, big data, life sciences) across the state and partners with the University of Michigan, Purdue University, and the University of Toledo to create economic impact across the Midwest. I-Corps at Illinois programming consists of workshops forcing teams to “get out of the lab” and engage with customers to validate the market size, value propositions, and customer segments of their innovations. TEC collaborates with Research Park, Office of Technology Management, and IllinoisVENTURES on I-Corps at Illinois.

Impact

- **The Garage | On site workshop**
- **Microgrants Program | About $2000 granted for student projects each year**
- **Workspace Program | Teams are offered private work space each semester**
- **4 teams + 24 hours + 1 big challenge = Extreme Entrepreneurial Lock-in**
- **How I Failed | Q&A series with entrepreneurs about learning from failures**

- About 1,200 students have lived in Innovation LLC since it opened in 2010, with a 50% male/50% female ratio.
- About 65% of these students are in the College of Engineering. The rest are from departments across campus, including Liberal Arts & Sciences and College of Business.

Created in 2010 through a collaborative partnership with University Housing, Innovation LLC provides students with an introduction to the entrepreneurial and innovation eco-system on campus. Students have extensive support for projects through on site mentoring, workspace, and microgrants. This has allowed student teams to begin developing everything from underwater robots, to improved body armor for police and military, to dolls that help young girls envision themselves in STEM roles.
AWARE

Launched at Illinois, The AWARE (Accelerating Women And underRepresented Entrepreneurs) program is a collaboration among the College of Engineering, the Office of Technology Management, and the EnterpriseWorks incubator at the University of Illinois Research Park, and is funded by the National Science Foundation to support entrepreneurship training, counseling, and networking. AWARE offers resources such as a dedicated entrepreneur-in-residence familiar with the needs of those from underrepresented groups, small proof-of-concept grants for teams, and targeted mentorship, training, and networking opportunities. After a successful pilot at Illinois, there are now three other AWARE programs across the country.

GRAINGER ENGINEERING LIBRARY INNOVATION, DISCOVERY, DESIGN & DATA LAB (IDEA Lab)

The IDEA Lab provides space and technology for faculty/student collaboration, innovation, and entrepreneurship. The lab functions as a demonstration and prototype site for exploring the interface between design learning, informatics, visualization, and data analytics. The lab features several informatics laboratories; student collaborative work areas, collaboration stations with monitors for group viewing of work, and a large multi-paneled monitor visualization wall for high definition data analysis and presentation.

iVENTURE ACCELERATOR

Launched out of the Provost’s campus Entrepreneurship Roundtable in the summer of 2015, the iVenture Accelerator enables student-led startups to create economic and social value by supporting student entrepreneurs with knowledge, funding, and access to world-class University of Illinois resources and alumni.

The iVenture Accelerator is run by a cross-campus team of faculty, administration, and staff passionate about accelerating the growth of our student entrepreneurs. This team is made up of members from The Origin Ventures Academy for Entrepreneurial Leadership, IllinoisVENTURES, Office of Technology Management, Research Park, Social Innovation at Illinois, and TEC.

The program is supported closely by the Colleges of Business, Engineering, Fine & Applied Arts, and School of Social Work. We work alongside University advancement offices to find ways for University of Illinois alumni and resources to engage and add value to our student entrepreneurs.

Impact
- $1.5+ million raised by student ventures from VCs, foundations, and donors
- 150+ teammates from 9 colleges and 33 fields of study
- 37 ventures creating commercial, technological, social, and cultural value
- 150+ alumni advisors

INTELLECTUAL PROPERTY CLINIC

The Intellectual Property Clinic is a joint effort between TEC and the College of Law with two tracks: the Patent Track and the Trademark Track. Selected participants from the Cozad New Venture Challenge, iVenture Accelerator, and Illinois Innovation Prize applicants can have a patent application drafted for them at no cost, or can receive advice on trademark matters. The value of this program is worth at least $10,000-$12,000 per patent application, and $1,000-$1,500 for trademark assistance. Innovators work with third-year law students to give them the information needed to author the applications, under the supervision of Professor Joe Barich.

Impact
- In its 12th year, and 49 patent applications have been drafted since inception
- 140+ companies have been assisted with trademark registration so far
ENTREPRENEURSHIP ROUNDTABLE

The Offices of the Provost and the Vice Chancellor for Research oversee the Entrepreneurship Roundtable which works collaboratively to bring visibility and distinction to the various entrepreneurship endeavors on our campus. The Roundtable is critical to ensuring the entrepreneurial ecosystem at Illinois continues to expand in both size and impact.

Each year, the Roundtable is charged with focusing on specific goals such as improving entrepreneurship education coordination across campus, developing the Illinois Entrepreneurship online portal, planning and executing entrepreneurial forums and workshops, and exploring potential initiatives that will be of benefit to the campus and beyond.

Members of the Roundtable include partners from across campus, including the Technology Entrepreneur Center, Research Park, Gies College of Business, College of Engineering, Krannert Center for the Performing Arts, Champaign-Urbana Community Fab Lab, IllinoisVENTURES, Office of Technology Management Licensing, and others.
Each year Mayor Rahm Emanuel, in partnership with World Business Chicago and the University of Illinois System, invites students to attend the ThinkChicago program. Students visit business headquarters, directly engage with entrepreneurs and leaders of some of today’s most innovative tech companies, and attend the Lollapalooza music festival or Chicago Ideas Week.

In 2017, the ThinkChicago Roadshow was launched, visiting campuses across the country. The Roadshow features panels with Chicago leaders discussing the city’s technology industry and business opportunities, and interactive sessions where students meet with Chicago’s leading business and civic leaders. At Illinois, more than 20 companies participated in the informal job fair portion and interacted with approximately 400 students.
MIDWEST ENGINEERING ENTREPRENEURSHIP NETWORK (MEEN)

In 2011, Illinois and Michigan recognized the value in establishing an organization that would provide a forum for sharing best practices and methods for overcoming challenges unique to Midwest engineering entrepreneurship centers.

Conferences have been hosted by:
- Iowa State University
- Northwestern University
- Purdue University
- University of Akron
- University of Illinois at Urbana-Champaign
- University of Iowa
- University of Michigan
- University of Minnesota
- University of Nebraska

The conference has grown from 4 to 33 universities since it began in 2011.

ENTREPRENEURIAL LIVING-LEARNING COMMUNITY (ELLC) ROUNDTABLE

This program was created in 2012 by the Innovation Living-Learning Community at the University of Illinois in order to give leaders of ELLCs the opportunity to gather in one spot for shared discussion and networking opportunities.

Conferences have been hosted by:
- Georgia Institute of Technology
- The Texas A&M University System
- University of Florida
- University of Illinois at Urbana-Champaign
- University of Utah
- University of Wisconsin—Madison

Approximately 30 universities have participated in the conference since it began in 2012.

ENGINEERING CITY SCHOLARS

City Scholars is a new initiative, launched in 2018, leveraging our nationally renowned engineering talent to build Chicago’s Tech pipeline.

With this new College of Engineering program, students spend a semester in Chicago and work 20 hours per week as paid interns at Chicago’s leading companies, taking course towards graduation. Illinois provides online and in-person classes in Chicago, keeping students on track to graduate.

Student cohort participates in seminars with executives, experts, and civic leaders; site visits and cultural events, and other customized programming in entrepreneurship, leadership, and innovation.

CHICAGO ENTREPRENEURSHIP WORKSHOP

This annual, educational trek to Chicago exposes students to the many facets of technology entrepreneurship, innovation, and leadership that continues to build an entrepreneurial community at Illinois.

The three-day technology entrepreneurship workshop in spring features corporate leaders, and entrepreneurial alumni in various stages of the startup life-cycle that share lessons learned about entrepreneurship.