THE POWER OF ILLINOIS RESEARCH AND INNOVATION

WITH A BREATHTAKING RESEARCH PORTFOLIO SPANNING THE ARTS, AGRICULTURE, BUSINESS, HUMANITIES, SOCIAL SCIENCES, NATURAL SCIENCES, AND ENGINEERING, ILLINOIS EXPERTISE, INTERDISCIPLINARY COLLABORATION, AND INNOVATION ARE SECOND TO NONE.

— Susan Martinis, Vice Chancellor for Research and Innovation

We’ve been changing the world since 1867. Find out how.

RESEARCH.ILLINOIS.EDU @UOFIRESEARCH

BY THE NUMBERS

$674M
Total research expenditures, FY19
Cost share and unreimbursed F&A included

2,765
Faculty members
1,899 tenure/tenure track
866 specialized

33,850
Undergraduate students

16,319
Graduate students

766
Earned doctorates, ranked 4th nationally
From the 2018 NSF survey of earned doctorates

3M+
Square footage for research

150+
Centers, laboratories, and research institutes

24M+
Materials in the University Library

25%
International students

AT ILLINOIS
The Grainger Foundation gave $100M to strengthen one of the world’s most distinguished engineering schools.

New collaboration with the National Geospatial-Intelligence Agency to create the most powerful non-classified geospatial system in the world.

Illinois faculty elected to the National Academy of Sciences, American Academy of Arts and Sciences, National Academy of Inventors, and others.

The Catherine and Don Kleinmuntz Center for Genomics in Business and Society launched.

Illinois and Carle Foundation Hospital agreed to purchase a MAGNETOM 7T MRI scanner, including them in an elite network of clinical facilities.

The Carle Illinois College of Medicine hosted the first Health Make-a-Thon to design tomorrow's health care innovations.

Illinois Global Institute formed to strengthen our understanding of cultures and societies around the world.

Susan Martinis named first Vice Chancellor for Research and Innovation.

Six Illinois researchers received the Presidential Early Career Award for Scientists and Engineers.

New Center for Digital Agriculture announced, combining Illinois' expertise in engineering and agriculture.

$21M invested in Programming Function via Soft Materials, a study of the interactions of soft materials with energy.

Partnership initiated with Foxconn Interconnect Technology to create the Center for Networked Intelligent Components and Environments.
**TOTAL RESEARCH AND DEVELOPMENT EXPENDITURES**

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>$640M</td>
</tr>
<tr>
<td>2016</td>
<td>$625M</td>
</tr>
<tr>
<td>2017</td>
<td>$642M</td>
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<tr>
<td>2018</td>
<td>$653M</td>
</tr>
<tr>
<td>2019</td>
<td>$674M</td>
</tr>
</tbody>
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*HERD results include cost sharing, unreimbursed F&A, and non-sponsored institutional research support.

**TOTAL SPONSORED FEDERAL RESEARCH AND DEVELOPMENT EXPENDITURES**

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>$335M</td>
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<tr>
<td>2016</td>
<td>$359M</td>
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<tr>
<td>2017</td>
<td>$354M</td>
</tr>
<tr>
<td>2018</td>
<td>$382M</td>
</tr>
<tr>
<td>2019</td>
<td>$354M</td>
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</tbody>
</table>

*Federal prime awardee includes dollars passed through other entities.

**TOTAL EXPENDITURES BY FEDERAL AGENCY**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td>$54.7M</td>
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<tr>
<td>NSF</td>
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<tr>
<td>NIH</td>
<td>$66.5M</td>
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<tr>
<td>DOE</td>
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<td>DOD</td>
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<tr>
<td>USDA</td>
<td>$26.6M</td>
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<tr>
<td>Other</td>
<td>$50.2M</td>
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</table>

**TOTAL CORPORATE CONTRACT AND PHILANTHROPIC SUPPORT**

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>2018</td>
<td>$116.2M</td>
</tr>
<tr>
<td>2019</td>
<td>$119.2M</td>
</tr>
</tbody>
</table>

*Actual expenditures of non-philanthropic corporate funds during the fiscal year provided by Sponsored Programs Administration.

**Total receipts from gifts, pledge payments, and grant payments as provided by the University of Illinois foundation.

*Includes NIH.
It started with a bold idea—bring researchers from different disciplines together under one roof and see what happens! More than 30 years later, we’ve set the standard for a new way of addressing global challenges like sustainability, food insecurity, and health, while developing new products, technologies, and innovations.

Together, the nine Illinois research institutes transcend college, school, and departmental boundaries to elevate ideas, drive discovery, and push the boundaries of our knowledge.

Cancer Center at Illinois
Cancer research and educational programs that unite campus strengths in science and engineering

Beckman Institute for Advanced Science and Technology
Harnessing interdisciplinary collaboration to produce advances that wouldn’t happen in individual departments—researchers explore imaging, molecular science, and intelligent systems like the brain

National Center for Supercomputing Applications
Computational expertise to develop simulations and models that cannot be tested in labs

Illinois Program for Research in the Humanities
Humanities, arts, and social sciences research into the culture, historical, and imaginative boundaries of the human condition

Carl R. Woese Institute for Genomic Biology
Team-based fundamental and applied genomics research in health, energy, agriculture, and technology

Institute for Sustainability, Energy, and Environment
Actionable research in sustainability, energy, and environment-related topics

Interdisciplinary Health Sciences Institute
Coordination and acceleration of campuswide health research and innovation

Prairie Research Institute
Research, expertise, and data to steward our nation’s natural and cultural resources

Center for Social and Behavioral Science
Research in grand societal challenges like poverty, health behavior, globalization, food insecurity, and more
At Illinois, we combine creativity, expertise, and imagination with the world-class facilities necessary to change the world. Below is a glimpse of the resources that support our research enterprise:

**Holonyak Micro + Nanotechnology Lab**
One of the country’s largest and most sophisticated university facilities for conducting photonics, microelectronics, biotechnology, and nanotechnology research.

**Morrow Plots**
Established in 1876, the plots are the oldest continuous experimental crop field in the U.S.

**Integated Bioprocessing Research Laboratory**
Provides a lab and pilot plant that bridges the gap from basic discovery to commercialization of bioproducts.

**Molecule Maker Lab**
First-of-its-kind lab that empowers physician–innovators to create molecules on demand.

**University Library**
14M+ volumes, including one of the greatest rare and special book collections in the world.

**IGB Core Facilities**
Instrumentation for biological microscopy and image analysis, including microscopes, nuclear magnetic resonance, tissue processing, and 3D printing.

**Krannert Art Museum**
Expansive, permanent collection with over 10,000 works dating from the fourth millennium BCE to the present, representing numerous cultures.

**Child Development Laboratory**
University-based early care and education program, facilitating research in child development and early childhood education.

**Rodent Gnotobiotic Facility**
Resource offering germ-free mouse production services to investigators.

**Materials Research Lab**
Advanced instrumentation for materials research, including 140+ instruments.

**Family Resiliency Center**
Family and nutrition research facility featuring a simulated family home and The Autism Program.

**National Petascale Computing Facility**
88,000 square-foot facility that houses computing, networking, and datasystems for Illinois researchers.

**Krannert Center for the Performing Arts**
Five unique indoor stages and an outdoor amphitheater that facilitate the realization of innovative artistic projects.

**Roy J. Carver Biotechnology Center**
Tools and services that support discovery in genomics, proteomics, and metabolomics.

**IGB Core Facilities**
Instrumentation for biological microscopy and image analysis, including microscopes, nuclear magnetic resonance, tissue processing, and 3D printing.

**Veterinary Diagnostic Laboratory**
Diagnostic medical testing for infectious agents, toxins, and other causes of disease in animal diagnostic samples.
The Research Park is a technology hub for corporate research and development operations and startup companies. Companies large and small locate here to harness university innovation, a skilled workforce, and a tech-friendly community.

**ENTERPRISEWORKS STARTUP INCUBATOR**

EnterpriseWorks is a 43,000-square-foot startup incubator in the heart of the Research Park.

- **2,200 employees**
- **200 annual events**
- **17 buildings**
- **800 student interns**

**START-UP SUCCESS**

- **56 startup tenants**
- **250+ startup tenants at EnterpriseWorks since 2003**
- **$1.2B venture-capital/private equity financing raised**
- **$147.3M SBIR/STTR funding since 2003**

**RESEARCH PARK**

U.S. PATENTS ISSUED IN 2019

- **85 patents**

PATENTS ISSUED OVER THE PAST FIVE YEARS

- **385 patents**

ACTIVE LICENSES AND OPTIONS

- **340+ active licenses**

INVENTION DISCLOSURES OVER THE PAST FIVE YEARS

- **1,114 disclosures**

Startups across the U.S. that are licensing University of Illinois intellectual property.

Taken from the Office of Technology Management’s FY19 Annual Report.
Developing affordable prosthetics for amputees. Testing new cancer therapies. Exploring the underlying causes of childhood obesity. At Illinois, undergraduate and graduate students are heavily involved in life changing, interdisciplinary research.

Illinois faculty and staff foster the practical training of students by involving them in unique research experiences in state-of-the-art labs. These research opportunities enhance learning and develop the next generation of scholars, scientists, and leaders.

2,000+ students involved in research activities at the Illinois Research Institutes

68% of undergraduate students participate in research

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FIND ILLINOIS RESEARCH EXPERTISE
Discover Faculty Profiles | Identify Collaborators | Search for Scholarly Works and Publications

3,000 researcher profiles | 150K+ searchable publications

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