We’ve been changing the world since 1867.

Rich history.
Bright future.

Illinois research combines scholarly expertise with world-class infrastructure, fuses disciplines, sparks collaborations, and nurtures the next generation of scholars.

Learn more at research.illinois.edu or follow us at @UofIResearch.
BY THE NUMBERS

$133.7M
Total Corporate Contract and Philanthropic Support, FY21

$731M
Total Research Expenditures, FY21

821
Earned Doctorates, Ranked Third in the U.S.*
*NSF Survey of Earned Doctorates

56,257
Students

21%
International Students

3M+
Square Footage for Research

14
New Companies Launched in Research Park Since 2018

150+
Centers, Laboratories, and Research Institutes

14M+
Volumes in the University Library Collection
15 years of HRI’s Odyssey Project. It provides low-income adults with free humanities courses taught by UIUC instructors.

being the nation’s top doctoral institution for producing Fulbright U.S. Scholars in 2021-22.

a 9% increase in DOE research expenditures (placing us third in the nation in DOE funding). Our NIH support has increased nearly 40% over the last five years.

$40M in newly announced NSF awards to advance research in neuron-based computing and expand the capabilities of U.S. supercomputing.

NSF Director Sethuraman Panchanathan to campus to announce $40M in advanced computing research awards.

DOE Secretary Jennifer Granholm to UIUC to explore our diverse portfolio, tour facilities, and meet with key experts.

the Front-End Engineering Design project at PRI, a study developing commercial-scale carbon capture technology, with $4M from the DOE.

the Feed Technology Center to accelerate discovery in feed science, grain storage and processing, and feed and pet food manufacturing.

Illinois Farming and Regenerative Management or I-FARM, a $3.9M USDA-funded project to build the “Farm of the Future.”

an iSEE project to optimize the design of “agrivoltaic” systems, a co-location of energy and food production, with $10M in USDA support.

the Institute for Geospatial Understanding Through an Integrative Discovery Environment with a $15M NSF award.

with IBM on the Discovery Accelerator Institute, a $200M initiative to develop quantum computing breakthroughs.

in the Taylor Geospatial Institute, a first-of-its-kind center using geospatial science to develop solutions to global challenges.

on Great Lakes ICORPS, a $15M NSF-supported hub to nurture regional innovation and move discovery from the lab to the marketplace.

WELCOME

$40M in newly announced NSF awards to advance research in neuron-based computing and expand the capabilities of U.S. supercomputing.

CELEBRATED

Want more highlights? Subscribe to This Week in Illinois Research: go.illinois.edu/twir
Research Expenditures

Federal, state, and private investments in research power discovery and innovation at Illinois.

**TOTAL EXPENDITURES** *(FY17-FY21)*

<table>
<thead>
<tr>
<th>Year</th>
<th>Research and Development*</th>
<th>Sponsored Federal Research and Development**</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY21</td>
<td>$731M</td>
<td>$406M</td>
</tr>
<tr>
<td>FY20</td>
<td>$689M</td>
<td>$388M</td>
</tr>
<tr>
<td>FY19</td>
<td>$674M</td>
<td>$382M</td>
</tr>
<tr>
<td>FY18</td>
<td>$653M</td>
<td>$354M</td>
</tr>
<tr>
<td>FY17</td>
<td>$642M</td>
<td>$359M</td>
</tr>
</tbody>
</table>

*HERD results include cost-sharing, unreimbursed F&A, and non-sponsored institutional research support.
**Federal prime awardee includes dollars passed through other entities.

*Includes National Institutes of Health*
More than 2,000 students work in labs, have field experiences, and learn to use cutting-edge equipment.

Research faculty and staff actively foster the training of students, create unique experiences, and educate the next generation of visionaries.

Invention Reports

Innovations By Type

Licenses and Options

61 licenses and options transferred 149 technologies.

U.S. PATENTS

216 Patent Applications

78 Issued Patents
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 conducting interdisciplinary research at scale, addressing pressing societal challenges.

Together, these 10 research institutes transcend college, school, and departmental boundaries to elevate ideas, drive discovery, and push the limits of our knowledge.
**RESEARCH INFRASTRUCTURE**

Cutting-edge research requires world-class facilities. From microscopes to manuscripts, scholars at Illinois have access to an exceptional range of tools, services, and equipment that supports inquiry and discovery.

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IGB Core Facilities</td>
<td>Instrumentation for biological microscopy and image analysis, including microscopes, nuclear magnetic resonance, tissue processing, and 3D printing.</td>
</tr>
<tr>
<td>Beckman Biomedical Imaging Facility</td>
<td>World-class imaging facility that offers access to the Carle Illinois Advanced Imaging Center, home of the only Siemens MAGNETOM Terra 7 Tesla MRI scanner in Illinois.</td>
</tr>
<tr>
<td>Roy J. Carver Biotechnology Center</td>
<td>Tools and services that support discovery in genomics, proteomics, and metabolomics, including the nation’s only microscopy to omics flow.</td>
</tr>
<tr>
<td>Energy Farm</td>
<td>A 320-acre “living laboratory” on UIUC’s South Farms focused on alternative energy resources, sustainable food production, and environmental stewardship.</td>
</tr>
<tr>
<td>Holonyak Micro and Nanotechnology Lab</td>
<td>Equipment for photonics, microelectronics, biotechnology, and nanotechnology research.</td>
</tr>
<tr>
<td>Materials Research Laboratory</td>
<td>Advanced instrumentation for materials research, including 140+ instruments.</td>
</tr>
<tr>
<td>Veterinary Diagnostic Laboratory</td>
<td>Diagnostic medical testing for infectious agents, toxins, and other causes of disease in animal samples.</td>
</tr>
<tr>
<td>NCSA Systems</td>
<td>Robust supercomputing resources, including Delta, a new NSF-sponsored, GPU-based supercomputer; HOLL-I, an instrument to handle large-scale AI and machine learning tasks; and Nightingale, a secure resource for sensitive data.</td>
</tr>
<tr>
<td>Krannert Art Museum</td>
<td>Expansive, permanent collection with over 10,000 works dating from the fourth millennium BCE to the present, representing numerous cultures.</td>
</tr>
<tr>
<td>Integrated Bioprocessing Research Laboratory</td>
<td>A lab and pilot plant that bridges the gap from basic discovery to commercialization of bioproducts.</td>
</tr>
<tr>
<td>Center for Advanced Study</td>
<td>Brings together scholars from diverse disciplines and backgrounds, encouraging and rewarding excellence in all areas of inquiry.</td>
</tr>
<tr>
<td>University Library</td>
<td>14M+ volumes, including one of the greatest rare and special book collections in the world.</td>
</tr>
</tbody>
</table>
RESEARCH PARK

Research Park is an environment where technology-based businesses work with faculty and students on collaborative research with access to university labs, equipment, and services. Research Park has attracted hundreds of companies since it began operations in 2000.

RESEARCH PARK EXPANSION: A LIVE, WORK, PLAY COMMUNITY

Research Park is transforming! Over the next two years, the technology hub will evolve into a live-work-play destination. In addition to more space for companies seeking to locate in the center, Research Park will add apartments and townhouses, a clubhouse, a pool, a dog park, and commercial spaces. This transformation will make it one of the most unique communities in the nation.

The development will have a phased timeline, with partial completion projected in 2023 and final completion in 2024.

Research Park companies include:

BY THE NUMBERS

2,220
Employees

875
Student interns

120
Companies located in Research Park

200
Events annually

$82M
Annual payroll

3rd
Largest employer in Champaign-Urbana

$500K
Awarded to build wet lab space for growth-stage companies
ENTREPRISEWORKS

Research Park fosters startup companies that commercialize technology through EnterpriseWorks, an incubator for early-stage tech firms that helps launch successful scientific and research-based startup companies.

Composition of EnterpriseWorks Incubator Tenants

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>60%</td>
</tr>
<tr>
<td>Students or Recent Alumni</td>
<td>20%</td>
</tr>
<tr>
<td>Others</td>
<td>11%</td>
</tr>
<tr>
<td>Staff</td>
<td>9%</td>
</tr>
</tbody>
</table>

Location of Graduated Startup Companies

- **71% of graduates** remain in Illinois
- **66% of graduates** remaining in Illinois are in Champaign County

By the Numbers

- **56 startup tenants**
- **43,000 sq. ft. for start-up incubation**
- **250+ startups have gone through EnterpriseWorks since 2003**
- **$1.2B venture capital raised by startup companies**
- **$147.3M in SBIR/STTR funding awarded to companies since opening**

FEATURED STARTUPS

Pioneering New Companies

- **Ascent Integrated Tech**
  Providing actionable insight on the health, environment, and location of firefighters, SWAT, and warfighters.

- **EarthSense**
  Using robotic farm equipment and AI to create dramatic new possibilities for crop breeders and scientists and field agronomists.

- **Epivara**
  Developing better, safer methods for spaying and neutering pets with EpiFix, a low-cost injection to spay and neuter pets efficiently, without surgery.

- **PSYONIC**
  Making advanced bionic limbs that are accessible to all people with amputations.

- **SimBioSys**
  Virtualizing cancer through computational oncology to transform decision-making and patient experience in cancer care.