

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

56,257

Students

21%

International Students

3y the Numbers

Total Research Expenditures, FY21 \$731M

Square Footage for Research

Faculty Members

1,936

Tenure/Tenure Track

1,093

Specialized

14

New Companies Launched in Research Park Since 2018 **150+**

Centers, Laboratories, and Research Institutes

Ranked Third in the U.S.*

821

Volumes in the University **Library Collection**

Earned Doctorates,

HIGHLIGHTS

Want more highlights?

Subscribe to This Week in Illinois Research: go.illinois.edu/twir

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 neuronbased computing and expand the capabilities of U.S. supercomputing.

IN

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 commercialscale 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-ofits-kind center using geospatial science to develop solutions to global challenges.

18

Highlights

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

RESEARCH EXPENDITURES

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

TOTAL	EXPEN	UTIDI	JRES
--------------	--------------	-------	-------------

(FY17-FY21)

FY21 (a 9% increase)

FY20

FY19

FY18

FY17

Research and Development*

\$731M

\$689M

\$674M

\$653M

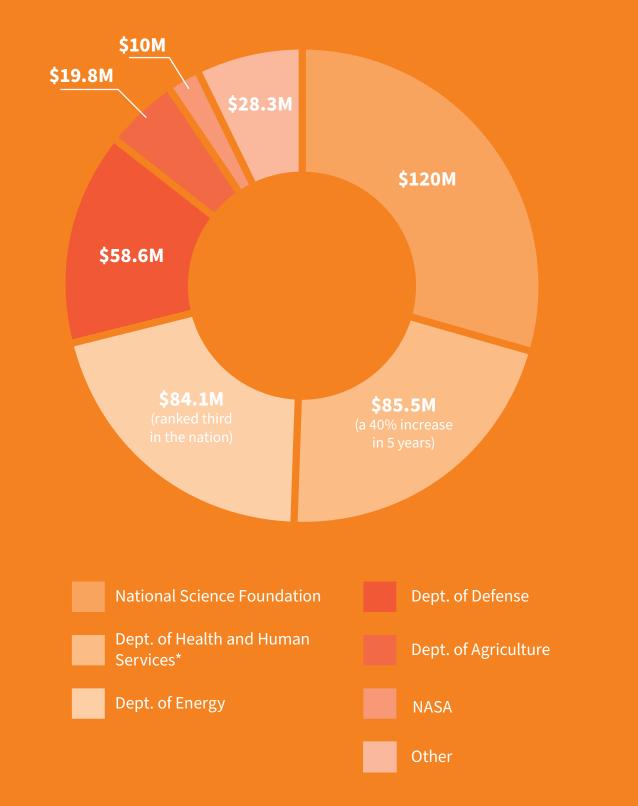
\$642M

Sponsored Federal Research and Development**

\$406M
\$388M
\$382M
\$354M
\$359M

TOTAL EXPENDITURES BY FEDERAL AGENCY (FY21)

\$406.311

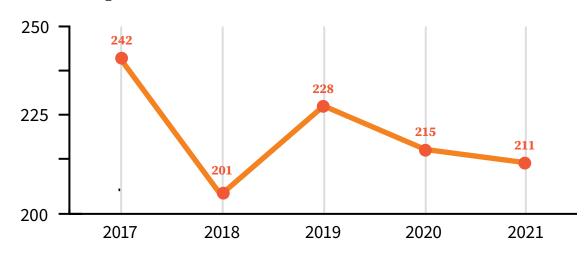


^{*}HERD results include cost-sharing, unreimbursed F&A, and non-sponsored institutional research support.

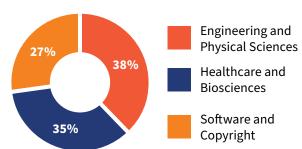
^{**}Federal prime awardee includes dollars passed through other entities.

TECHNOLOGY COMMERCIALIZATION

Invention Reports



Innovations By Type



U.S. PATENTS

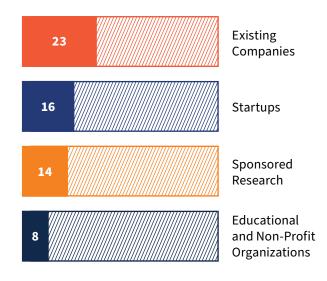
216

Patent Applications

Issued Patents

Licenses and Options

61 licenses and options transferred 149 technologies.







Beckman Institute for Advanced Science and Technology

Interdisciplinary collaboration to advance imaging, molecular science, and intelligence.

C3.ai Digital Transformation

Advancing AI for business, government, and society.

Cancer Center at Illinois

Cancer research and educational programs uniting campus strengths in science and engineering.

Carl R. Woese Institute for Genomic Biology

Fundamental and applied genomics research in food security, energy, health, technology, and environmental conservation.

Center for Social and Behavioral Science

Research into poverty, globalization, food insecurity, and more.

Humanities Research Institute

Insight and study of the cultural, historical, and imaginative boundaries of the human condition.

Institute for Sustainability, Energy, and Environment

Actionable research in sustainability, energy, and the environment.

Interdisciplinary Health Sciences Institute

Coordinating and accelerating campuswide health research and innovation.

National Center for Supercomputing Applications

Computation tools and expertise to advance research.

Prairie Research Institute

Use-inspired transformative research and innovation and at-scale solutions for a society in transition.

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.



IGB Core Facilities

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



Beckman Biomedical Imaging Facility

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.



Krannert Art Museum

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



Roy J. Carver **Biotechnology Center**

Tools and services that support discovery in genomics, proteomics, and metabolomics, including the nation's only microscopy to omics flow.



Veterinary Diagnostic Laboratory

Diagnostic medical testing for infectious agents, toxins, and other causes of disease in animal samples.



NCSA Systems

Robust supercomputing resources, including Delta, a new NSF-sponsored, GPUbased supercomputer; HOLL-I, an instrument to handle largescale AI and machine learning tasks; and Nightingale, a secure resource for sensitive data.

14

18

Research Infrastructure



Energy Farm

A 320-acre "living laboratory" on UIUC's South Farms focused on alternative energy resources, sustainable food production, and environmental stewardship.



Center for Advanced Study

Brings together scholars from diverse disciplines and backgrounds, encouraging and rewarding excellence in all areas of inquiry.



Holonyak Micro and Nanotechnology Lab

Equipment for photonics, microelectronics, biotechnology, and nanotechnology research.



Materials Research Laboratory

Advanced instrumentation for materials research, including 140+ instruments.



Integrated Bioprocessing Research Laboratory

A lab and pilot plant that bridges the gap from basic discovery to commercialization of bioproducts.



University Library

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

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.

BY THE NUMBERS

2,220

875

Employees

Student interns

200

Companies located in Research Park

Events annually

Annual payroll

3rd

Largest employer in Champaign-Urbana

\$500K

Awarded to build wet lab space for growth-stage companies

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:



Research Park



















EnterpriseWorks

56 startup

tenants

43,000 sq. ft.

for start-up incubation

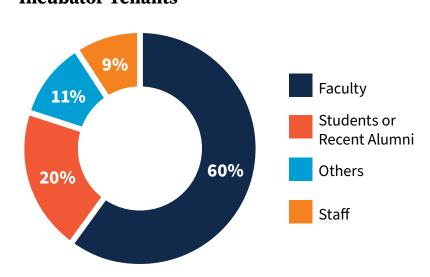
\$147.3M in SBIR/STTR funding awarded to companies

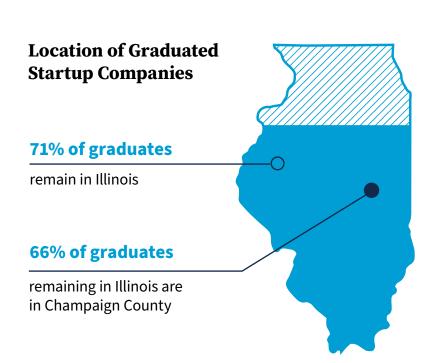
since opening

ENTERPRISEWORKS

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







FEATURED STARTUPS

250+ startups

have gone through

EnterpriseWorks

since 2003

Pioneering New Companies

Ascent Integrated Tech

Providing actionable insight on the health, environment, and location of firefighters, SWAT, and warfighters.

\$1.2B venture

capital raised by

startup companies

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.

SimBioSvs

Virtualizing cancer through computational oncology to transform decision-making and patient experience in cancer care. OFFICE OF THE VICE CHANCELLOR FOR RESEARCH & INNOVATION 601 E. John St., Champaign, IL 61820 research.illinois.edu | ovcri@illinois.edu Follow Us!