

FEDERAL FUNDING AGENCY SNAPSHOT

RESEARCH AT THE UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

THE NSF AT ILLINOIS

The National Science Foundation and the University of Illinois at Urbana-Champaign are partners in developing the critical tools, technologies, and fundamental understanding necessary to address society's pressing problems.

NOTABLE NSF-SUPPORTED PROJECTS AT ILLINOIS

At Illinois, NSF-supported projects have led to such life-changing innovations as the modern internet browser and wearable electronics, along with many other technologies that have formed the basis for dozens of start-up companies.

NSF funding is critical to supporting basic research in all disciplines on our campus. In fact, for the last six years running, we have been awarded more funding from the National Science Foundation than any other university in the nation.

Some of these projects include:

Infrastructure for the nation's research community

- **Blue Waters**, the world's fastest supercomputer on an academic campus, has helped users from across the country to detect gravitational waves, design the first set of antibody prototypes to detect the Ebola virus, and develop simulations that could potentially lead to new HIV therapies.
- **XSEDE** unites experts and cyberinfrastructure resources across the country to assist digital research at all levels.
- **CompGen**, a Major Research Instrumentation award, enables the management and processing of genomic information and the development of new algorithms to facilitate the analysis of genomic data.

Research to address the grand challenges of our time

Illinois scientists are:

- Addressing the thermal and electrical challenges surrounding mobile electronics and vehicle design, as a single system (**POETS**, an Engineering Research Center)
- Building living, multi-cellular machines to solve environmental, health, and security problems (**EBICS**)
- Revolutionizing the Bioengineering curriculum at Illinois to ensure that student education is driven by a single principle: "No solution without a need." (**RED**, 'REvolutionizing' engineering and computer science Departments)
- Exploring the roots of female underrepresentation in STEM fields (**SBP**: Exploring the Development of Gender Stereotypes about Intelligence)

Programs to leverage NSF investment in basic research

- The **I-Corps** program at Illinois works with faculty and students to identify valuable product opportunities that can emerge from academic research, and provides entrepreneurship training to participants. The 120+ teams that have participated in the last three years have raised more than \$24 M in external funding.
- Illinois participates in several **I/UCRCs** (including three new projects announced summer 2016) that partner university research with industry needs to transfer research results and technological advances to the U.S. marketplace.

NSF EXPENDITURES, FY15 BY FIELD

Engineering	\$24.9 M
Physical Sciences	\$16.4 M
Environmental, Math, and Computer Sciences	\$73 M
Life Sciences	\$9.8 M
Social and Behavioral Sciences	\$5.1 M
Others	\$3.2 M
TOTAL	\$132 M

ILLINOIS RESEARCH PERMEATES OUR CLASSROOMS, FUELING NEW IDEAS,
NEW COMPANIES, AND EVEN ENTIRELY NEW INDUSTRIES.

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