

# Argonne National Laboratory brings strength to Illinois

## Argonne innovations grow the state's economy

Argonne National Laboratory is the largest federally funded R&D center in Illinois and the entire Midwest. For 65 years, our scientific and engineering research has helped drive the region's economic growth and bring high-tech workers into the state.

Today, as the U.S. faces major challenges in energy, environment and national security, research at Argonne fuels the economic competitiveness of Illinois, the Midwest and beyond. Our goal is to ignite an innovation ecology that strengthens research partnerships among the state's universities, laboratories and industry.

## Collaboration is key to success

Home to some of the world's top scientists and engineers and steward to unique and world-leading facilities, Argonne is a magnet to Illinois' industrial and academic institutions. We work proactively with industry to

- ▶ overcome scientific and technological hurdles,
- ▶ identify commercialization opportunities,
- ▶ license new applications,
- ▶ create new start-ups, and
- ▶ introduce new technologies to the marketplace.

Dozens of new start-up companies have grown directly out of Argonne research and expertise, such as Advanced Diamond Technologies in Romeoville and SmartSignal in Lisle, purchased earlier this year by GE Intelligent Platforms. In the last five years, Argonne has received **36 new patents**, issued more than **197 technology licenses**, including 170 on software, and received more than **\$15 million in licensing royalties**.

## Illinois investments change the world



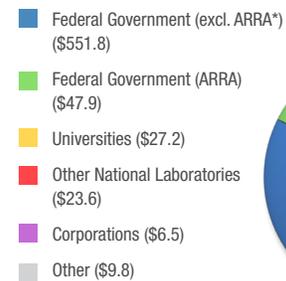
Abbott Labs developed Kaletra, an HIV-fighting drug with more than \$2.3 billion in annual sales, after conducting research at Argonne's Advanced Photon Source to discover the virus's structure.

Twenty years ago, Illinois was instrumental in making Illinois home to the nation's largest federally funded user facility by providing \$27.6 million to build the Argonne Guest House, a lodging place for scientists conducting research at the Advanced Photon Source (APS), then under construction. More recently, Illinois invested \$36 million to build the Center for Nanoscale Materials next to the APS. These combined investments of less than \$64 million leveraged an additional \$2.2 billion in construction and research funding from the federal government.

## About Argonne

- ▶ **\$665 million** operating budget
- ▶ **3,200 employees**

Argonne funding comes from a number of sources, including more than 50 U.S. government agencies.



\*The American Recovery and Reinvestment Act, also known as the federal stimulus package.

## Argonne's impact on Illinois

FY 2010 by the numbers

- ▶ **4,950 jobs** created throughout Illinois
- ▶ **\$695 million** total economic impact on Illinois
- ▶ **\$600 million** in federal research funding attracted to Illinois
- ▶ **\$210 million** in income for Illinois households
- ▶ **\$90 million** in goods and services purchased from Illinois businesses
- ▶ **\$34 million** in construction at Argonne's Illinois site
- ▶ **5,500 researchers** from all over the world using Argonne's Illinois facilities
- ▶ **800 researchers** from more than 50 Illinois universities, companies and other organizations



*Future home to the world's fastest supercomputer, the Theory and Computing Science building, completed in 2009, was built with third-party financing made possible by Illinois State bonds.*

This year, Illinois continued its successful partnership with Argonne, providing \$34.5 million for construction of the new Advanced Protein Crystallization Facility (APCF) at the APS. Construction is expected to create **825 new Illinois jobs** and **\$25 million a year in personal income**. After opening in 2014, the APCF is expected to draw **\$110 million** for research over five years, create **550 new jobs** and add **\$52 million** annually to the Illinois economy. Work at the APCF will help drug and vaccine developers discover the molecular causes of disease and create better diagnostics, treatments and cures.

## Argonne trains Illinois' high-tech workforce

Argonne prepares the next generation of scientists and engineers to take up the nation's science and technology challenges. Dedicated to improving education in science, mathematics, engineering and technology, in 2011 we worked with more than **4,300 elementary, middle and high school students from Illinois**. Last year, over **600 undergraduate and graduate interns** worked side-by-side with researchers. Further, more than **300 college graduate students and post-doctoral researchers** gain valuable experience every year as part of our R&D activities.



*More than 7,000 young women from Illinois high schools have participated in Argonne's Science Careers in Search of Women conference since 1987 to learn about science and technology careers.*

## Unique scientific user facilities and collaborators

Argonne's user facilities have hosted tens of thousands of researchers from more than 1,100 institutions worldwide, including more than 50 Illinois corporations and universities.

### Industry

- ▶ Abbott Laboratories
- ▶ Amoco Corporation
- ▶ Cabot Microelectronics
- ▶ Caterpillar, Inc.
- ▶ Nalco Chemical
- ▶ Northrop Grumman
- ▶ Packer Engineering, Inc.
- ▶ UOP LLC
- ▶ and dozens more.

### Educational institutions

- ▶ DePaul University
- ▶ Illinois Institute of Technology
- ▶ Loyola University
- ▶ Northwestern University
- ▶ Southern Illinois University
- ▶ University of Chicago
- ▶ University of Illinois at Chicago
- ▶ University of Illinois at Urbana-Champaign

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