SIDC is increasingly active and successful in technology transfer and commercialization. During the past ten years, the University’s researchers and scientists have disclosed nearly 40 U.S. patents. During this time, SIDC and the School of Medicine have received more than $3.8 million in royalties.

The discoveries and inventions of SIDC researchers have led to the establishment of several new technology-focused companies, including:

- Midwest Energy Group Inc., focusing on ways to optimize and commercialize novel biomass production technology.
- Genetics and Agricultural Biotechnology Inc., using pattern-painting genetics to analyze nucleic acid patterns for resistance to bioterrorism in novel crops and weeds of concern to commercial agriculture.
- Highthroughput Genomics Inc., focusing on high-throughput genetic screening technologies and providing genetic “libraries” to researchers.

The research and technology development efforts bring together inventors and potential investors in an effort to promote and enhance the commercialization of technologies developed through research.

Specifically in FY2010:
- Inventions disclosed: 29
- U.S. patent applications filed: 15
- U.S. patents issued: 2
- License income and royalties: $569,105
- Licenses/options executed: 6
- Inventions Disclosed: 29

New technology-focused companies are created to promote and enhance the commercialization of technologies developed through research.

Consortium for Embedded Systems
- www.engr.siu.edu/ces

Illinois Soybean Center
- www.ics.siu.edu

Global Media Research Center
- www.gmrc.siu.edu

Consortium for Embedded Systems
- www.engr.siu.edu/ces

Southern Illinois University Carbondale
- www.siu.edu

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Contemporary Research Profile 2011
Southern Illinois University Carbondale
Office of the Vice Chancellor for Research and Graduate Dean

Five simple words, yet they describe a myriad of far-reaching research activities at Southern Illinois University Carbondale. Our students, faculty, and staff are committed to innovative, discovery-driven research that makes a difference in society and the global community. For fiscal year 2010, grant and contract funding totaled $79.94 million, a University record. More than $41 million supported research in the arts and humanities, hundreds of thousands of dollars in disciplinary research centers.

Our strengths in the sciences and social sciences include areas of environmental and energy research, materials science, agricultural biotechnology, biomedical research, and cognitive science, among others. More than 120 interdisciplinary research centers.

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Highlighting the arts and humanities, Southern Illinois University Carbondale is ranked by the Carnegie Foundation as a high research activity institution, one of only 5 percent of U.S. institutions of higher learning for research, and the only research university in the southern half of Illinois.

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Several students, is conducting oral histories to document and archive the history of the civil rights movement. Angela Aguayo, assistant professor in the Department of Cinema and Photography, along with her students, has interviewed over 60 informants across the country.

A new professional master's degree program in advanced energy and fuels management is now available at SIUC. The program, supported by the National Science Foundation, is designed to prepare professionals in the fields of energy and fuels management.

The Illinois Department of Natural Resources has awarded a $1.1 million grant to researchers at SIUC. The grant will support the development of new methods to control invasive Asian carp. The species poses a significant threat to the Illinois waterways.

Researchers are examining the potential use of Asian carp as a source of bioenergy. The goal is to find ways to utilize this abundant resource while simultaneously trying to control the population.

Researchers are also studying the effects of climate change on the Illinois waterways. The project, entitled "CNH: Climate Change, Hydrology and Landscapes of America's Heartland: A Multi-Scale Approach," is being funded by the Illinois Department of Natural Resources.

The Center for the Study of Science (CSS) has released its annual report, "Summary of Grant Funding, FY 2010." The report includes data on the number of grants awarded, the total amount of funding received, and the sources of funding.

The report shows that SIUC received over $100 million in grant funding in FY 2010. The top sponsors for research grants were the National Science Foundation, the U.S. Department of Energy, and the Illinois Department of Natural Resources.

April D. Strader, assistant professor of physiology, is trying to discover why gastric bypass surgery is so effective in treating obesity. The research is being funded by the American Diabetes Association.

The Consortium for the Advancement of Informational Systems Research has been awarded a $6.8 million research grant. The consortium is working on developing new methods for analyzing large data sets.

The National Center for Dewey Studies recently finished volume one of "The Class Lectures of John Dewey," a two-volume set of lectures given by Dewey at the University of Chicago. The second volume is expected to be released later this year.

SIUC's Integrative Graduate Education and Research Traineeship (IGERT) program on watershed management is entering its second year. The program, supported by the National Science Foundation, is designed to prepare graduate students in the fields of environmental science and policy.

Top Sponsors, All Grant Funding

- National Science Foundation
- U.S. Department of Energy
- U.S. Department of the Interior
- National Aeronautics and Space Administration
- Illinois Department of Natural Resources

Top Sponsors, Research Grant Funding

- National Science Foundation
- U.S. Department of Energy
- U.S. Department of the Interior
- National Aeronautics and Space Administration
- Illinois Department of Natural Resources

The Illinois State University Foundation has announced a new endowed chair in the Department of Chemistry. The chair will support research and teaching in the field of chemistry.

SIUC's Department of Art and Design is hosting a new art exhibition series. The series, entitled "Art and Design," will feature works by artists from around the world.