

UCLA Research FACTS

Building roads to discovery

As one of the leading public research universities in the world, UCLA is consistently ranked nationally in the top five institutions for research funding. Fiscal Year 2007-2008 research funding totaled over \$887M. In 2007, UCLA was ranked the 2nd *Top American Public Research University*.¹ In 2006, UCLA was ranked 4th among public universities of the *Top 100 Global Universities*.²

Research Funding and Expenditures in Fiscal Year 2007-2008

- \$887,441,532 awarded
- \$279,852,456 non-federal funding/\$607,589,076 federal funding
- \$662,519,826 sponsored research expenditures

UCLA Faculty Nobel Laureates

- Willard F. Libby, 1960 Nobel Prize in Chemistry for developing carbon dating.
- Julian S. Schwinger, 1965 Nobel Prize in Physics for independent contributions to quantum electrodynamics.
- Donald Cram, 1987 Nobel Prize in Chemistry for his discovery of "molecular recognition".
- Paul Boyer, 1997 Nobel Prize in Chemistry for his hypothesis describing the process by which molecules produce adenosine triphosphate (ATP), thereby transmuting light, air, water and food into the energy required for both plant and animal life.
- Louis J. Ignarro, 1998 Nobel Prize in Physiology or Medicine for his discovery that nitric oxide is a neurotransmitter crucial to the life process.

UCLA Faculty Honors and Awards

- American Academy of Arts and Sciences: 97 members
- American Association for the Advancement of Science: 80 fellows
- American Philosophical Society: 16 members
- Fields Medal in Mathematics: 1 (Terrance Tao, 2006)
- Institute of Medicine: 32 members
- King Faisal International Prize in Science: 2 awardees
- MacArthur Foundation Fellows: 11 grant recipients
- National Academy of Education: 6 members
- National Academy of Engineering: 20 members
- National Academy of Sciences: 37 members
- National Academy of Sciences Gilbert Morgan Smith Medal: 1 (Sabeeha Merchant, 2006)
- National Medal of Science: 10 awardees
- National Science Foundation CAREER Awards: 26
- Pritzker Prize in Architecture: 1 (Thom Mayne, 2005)
- Pulitzer Prize: 3 (Jared Diamond, 1998; Daniel Walker Howe, 2008; Saul Friedlander, 2008)

Recent Research Highlights

- The David Geffen School of Medicine ranked number 7 among medical schools awarded National Institutes of Health (NIH) grants (\$303,795,874) in fiscal year 2005.³
- The California Nanosystems Institute (CNSI), a joint research center run by UCLA and UC Santa Barbara, was established in 2000 with \$100 million from the State of California and an additional \$250 million in federal research grants and industry funding.
- The Department of Geography was ranked #1 for research faculty in the Chronicle of Higher Education in 2005.
- 48 UCLA researchers are listed among the Institute for Scientific Information Highly Cited Researchers.⁴
- Dr. J. Fraser Stoddart and Dr. Omar Yaghi, of the Department of Chemistry and Biochemistry, were ranked by the Institute for Scientific Information as the 3rd and 22nd most-cited chemists respectively.
- Dr. Omar Yaghi (Department of Chemistry and Biochemistry) and Dr. Terence Tao (Department of Mathematics) were both selected to Popular Science magazine's list of "The Brilliant 10" scientists in the October 2006 issue.
- Dr. Eric J. Sundquist (Department of English) will receive \$1.5 million over three years as one of four 2006 recipients of the Andrew W. Mellon Foundation's Distinguished Achievement Award.
- The Institute of the Environment (IoE) sponsored an international summit of evolutionary biologists, conservation practitioners, and policy makers to develop plans to mitigate the effects of climate change and deforestation (2007).
- In 2004, Anderson School of Management faculty were rated #1 in *BusinessWeek*'s intellectual capital poll, which tallies academic journal entries among 18 scholarly publications.

1 Source: Center for Measuring University Performance http://mup.asu.edu/research_data.html

2 Source: Newsweek International—The Complete List: The Top 100 Global Universities <http://www.msnbc.msn.com/id/14321230/>

3 Source: National Institutes of Health website <http://grants.nih.gov/grants/award/rank/medt105.htm>

4 Source: Institute for Scientific Information Highly Cited Researchers (March 11, 2005) <http://isihighlycited.com/>

Recent Select Research Awards and Gifts

- \$9.2 million to the Department of Physics and Astronomy from the National Science Foundation (NSF) for research on the Compact Muon Solenoid (CMS) detector (2005).
- \$8 million to the UCLA Southern California Particle Center from the Environmental Protection Agency (EPA) for research on the integrated health effects of exposure to particulate matter (2005).
- \$2.8 million to the Department of Molecular, Cell and Developmental Biology for research on the genes to construct a soybean seed (2005).
- \$10 Million to the Cotsen Institute of Archaeology at UCLA (2006).
- \$5 million to support contemporary Japanese studies at UCLA from Paul Terasaki, professor emeritus of surgery (2006).
- More than \$4.5 million to the Department of Chemistry and Biochemistry from the NSF for research on protein folding mechanisms (2006).
- \$15 million to the School of Dentistry from the NIH for research on saliva diagnostics (2006).
- \$2.5 million to the Center for Tropical Research from the NIH for research on the effects of avian migration and environmental change on the transmission of avian influenza (2006).
- \$9 million to the School of Public Health from the State of California for expansion of a new high-speed, high-volume biological lab that will enhance ability for rapid analysis and response in the event of a bioterrorist event or flu pandemic (2006).

Economic Impact

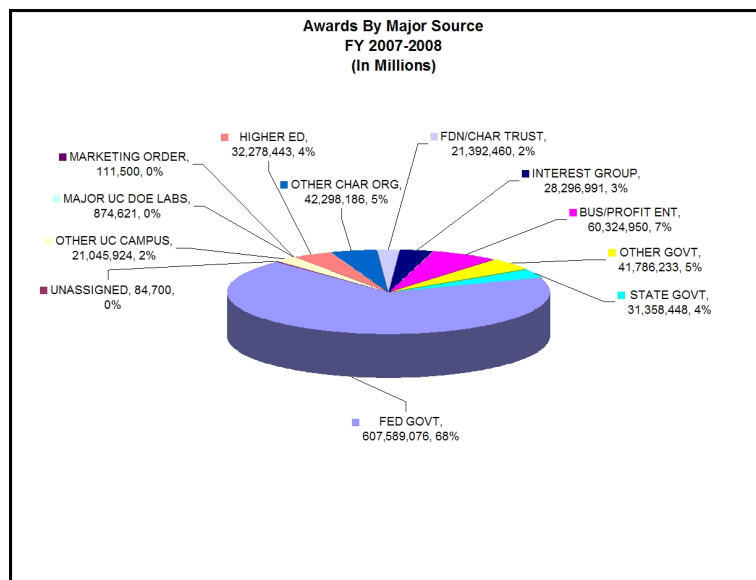
- UCLA generates almost \$15 in economic activity for every \$1 of taxpayer investment, resulting in a \$9.3 billion economic impact on the greater Los Angeles region.
- UCLA is the 7th largest employer in the region. UCLA-related employment and spending supports 80,600 permanent jobs.
- UCLA generates more than \$1.2 billion in local, state and federal taxes.
- UCLA licensed 498 inventions to 264 companies, including 77 start-ups and 187 established companies.
- UCLA earned nearly \$19.5 million in royalties and fees from the licensing and commercialization of its inventions during FY 2006.
- In the last decade, more than forty new companies have been founded around inventions created at UCLA, attracting millions of dollars in invested capital.

Research Centers, Labs and Institutes

There are over 290 research centers, labs and institutes at UCLA. Leading examples include the following:

- Alzheimer's Disease Center (ADC) [National Institutes of Health (NIH) Center of Excellence]
- Anderson Business Forecasting Project
- Basic Plasma Science Facility (BAPSF)
- California Census Research Data Center (CCRDC)
- California Nanosystems Institute (CNSI) (Located at UCLA and UC Santa Barbara)
- Center for Computational Biology (NIH Center of Excellence)
- Center for Digital Humanities (CDH)
- Center for Embedded Network Sensing (CENS) [National Science Foundation (NSF) Science and Technology Center]
- Center for Energy Science and Technology Advanced Research (CESTAR)
- Center for Healthier Children, Families and Communities (CHCFC)
- Focus Center on Functional Engineered Nano Architectonics (FENA)
- Institute for Digital Research and Education (IDRE)
- Institute of the Environment (IoE)
- Institute for Pure and Applied Mathematics (IPAM) (NSF Mathematical Science Institute)
- Joint Institute for Regional Earth System Science and Engineering (JIFRESSE) (UCLA and Jet Propulsion Laboratory)
- Water Technology Research Center (WaTeR)
- Western Institute of Nanotechnology (WIN)

Percent of Award Dollars by Major Funding Source



UCLA Strategic Research

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Additional information can be found at <http://www.ucla.edu/about.html> and [UCLA Economic Impact on Southern California '06-'07](#)

Note: Information in this document relates to fiscal year 2006-2007 and before, unless noted otherwise.