UCSB
Research at a Glance

Office of Research
University of California, Santa Barbara
research.ucsb.edu
UCSB scientists, scholars and artists inspire and challenge their students in the classroom every day, but they do much more. They contribute to research that furthers knowledge and understanding and solves real-world problems. UCSB’s culture of multidisciplinary collaboration leads to partnerships with other universities, local and state governments, and private industry. In areas as diverse as energy, the environment, medicine, and communications, UCSB researchers are doing their part to bring new technologies and innovation to the world’s challenges.

• The UCSB faculty boasts five Nobel laureates in chemistry, physics, and economics. Numerous other faculty honors include National Medals of Science, a National Medal of Technology, a National Medal of the Humanities, a Millennium Technology Prize, and the Humboldt Research Award. Twenty-eight professors are elected members of the National Academy of Sciences; 24 are members of the National Academy of Engineering; and two have been elected to the Institute of Medicine.

• As one of only 62 institutions in the American Association of Universities, UCSB stands among the top 1.5 percent of all universities and colleges in the United States and Canada.

• The majority of UCSB’s extramural funding comes from the National Science Foundation. Reflecting its intellectual strength, UCSB is among the top 25 NSF-funded institutions.

• The campus is home to nearly 100 interdisciplinary research centers, groups, institutes, and laboratories. Of these, 13 are national research centers, nine of which are funded by the National Science Foundation.

• UCSB ranks 8th among universities nationwide that receive Department of Defense funding for basic research. Scientists are developing new communications, sensing, data-storage, and materials technologies with nearly unlimited potential commercial applications. All this research is unclassified.

• The campus is 2nd in the United States and 6th in the world in materials science and engineering, according to 1996–2006 rankings based on citations in scholarly publications and released in January 2007 by Science Watch, a publication of Essential Science Indicators. UCSB is 2nd in the world in citations per paper in the same period. In 1995–2005, UCSB physics ranked 4th among U.S. universities and 9th in the world in total citations, and #1 in the world based on citations per paper. Science Watch also recently ranked UCSB #1 nationwide in Ecology/Environment and #5 in Plant and Animal Sciences.

• UCSB is home to the California NanoSystems Institute, which facilitates a multidisciplinary approach to develop the nanoscience technologies that will dominate science and the economy in the 21st century.

• UCSB’s young assistant professors are outstanding. The campus ranks 3rd in the country in the percentage of its assistant professors who receive prestigious research awards from the NSF and three private foundations. These organizations—the Arnold and Mabel Beckman, David and Lucile Packard, and Alfred P. Sloan foundations—award fellowships in science and engineering to researchers early in their faculty careers.

Cover image: Stem cells are a primary focus of researchers in a variety of fields at UCSB, including regenerative medicine, basic biology, bioengineering, and biotechnology. In 2008, UCSB received $4.6 million in grants from the California Institute for Regenerative Medicine (CIRM) toward building new, state-of-the-art stem cell research facilities on campus. Image by Peter Allen.
A total of $194.3 million was received from federal, state and local agencies; corporations; and private, non-profit institutions in fiscal 2008—an increase of 10 percent over the previous year’s total of $176.1 million. Over the past two years, UCSB has achieved a remarkable 22 percent increase in extramural funding. Research expenditures rose to $157 million in 2008, an 8 percent increase over the previous year.

*Includes Materials Research Laboratory and the Mitsubishi Chemical Center for Advanced Materials.

**Includes research units administered outside the college structure: Kavli Institute for Theoretical Physics, National Center for Ecological Analysis and Synthesis, UCSB Natural Reserve System, California NanoSystems Institute, Institute for Collaborative Biotechnologies, the Center for Black Studies Research, and the seven Organized Research Units.

***Includes Arts & Lectures, Davidson Library, Graduate Division, University Extension, and programs under the Vice Chancellors for Administrative Services and for Student Affairs.
Of UCSB’s $80.5 million in non-federal sponsors in FY 2008, $24.8 million flowed through to the campus as part of federal funding to other sources, such as a collaborating university. These flow-through dollars boost UCSB’s federal award total to nearly $138.6 million, or 72 percent of the campus’ total extramural funding.

Direct federal funding amounts to nearly 60 percent of the campus’ extramural total. The National Science Foundation provided more funding to UCSB in FY 2008—$45.8 million—than did any other agency. At the same time, the impact of non-federal funding is growing. Industry dollars totaled $11.6 million, or 6 percent of the research dollars received, and private non-profit funding totaled $30 million, or 15 percent, in FY 2008. If industry and private dollars that flowed through from other institutions are included, the totals are $17 million in industry funding and $43 million in private non-profit support for research at UCSB.

### 2008 Extramural Awards—$194.3 Million

<table>
<thead>
<tr>
<th>Major Unit</th>
<th>Funding by Administering Unit</th>
<th>Funding by Principal Investigator’s Home Unit</th>
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<tbody>
<tr>
<td>College of Engineering*</td>
<td>$52,318,964</td>
<td>$57,792,501</td>
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<tr>
<td>College of Letters &amp; Science</td>
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<tr>
<td>Donald Bren School of Environmental Science &amp; Management</td>
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<td>Gevirtz Graduate School of Education</td>
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<td>$2,398,130</td>
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<td>Research Institutes &amp; Centers**</td>
<td>$98,671,361</td>
<td>$17,860,322</td>
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<tr>
<td>Other***</td>
<td>$3,448,162</td>
<td>$3,408,472</td>
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Senior Officers of the University

Chancellor
Henry T. Yang

Executive Vice Chancellor
Gene Lucas

Vice Chancellor for Administrative Services
Donna Carpenter

Vice Chancellor for Institutional Advancement
John M. Weimann

Vice Chancellor for Research
Michael Witherell

Vice Chancellor for Student Affairs
Michael D. Young

Assistant Chancellor for Budget and Planning
Todd Lee

Deans

College of Letters and Science
  Division of Humanities and Fine Arts
    Dean: David Marshall
      Executive Dean, College of Letters and Science
  Division of Mathematical, Life, and Physical Sciences
    Dean: Pierre Wiltzius
  Division of Social Sciences
    Dean: Melvin L. Oliver
  Undergraduate Studies
    Acting Dean: Mary Nisbet

College of Engineering
  Dean: Matthew Tirrell

College of Creative Studies
  Dean: Bruce Tiffney

Donald Bren School of Environmental Science and Management
  Dean: Ernst von Weizsäcker

Gevirtz Graduate School of Education
  Dean: Jane Close Conoley

Graduate Division
  Dean: Gale Morrison

Office of Research Contacts

Vice Chancellor for Research
Michael Witherell • 805-893-8270

Assistant Vice Chancellor for Research
Karen T. Hanson • 805-893-2757

Director, Office of Technology & Industry Alliances
Sherylle Mills Englander • 805-893-5180

Director, Sponsored Projects
Nancy Lewis • 805-893-4036

Director, Social Science Research Development
Barbara Walker • 805-893-3576

Director, Research Development
Carla S. Whitacre • 805-893-3925