

CALIFORNIA STATE UNIVERSITY LONG BEACH

COLLEGE OF NATURAL SCIENCES & MATHEMATICS

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DISTINCTIONS 2018–2019

CSU Long Beach (CSULB) is a university of talented and diverse students that consistently ranks among the top public universities in the west (U.S. News & World Report) and is one of the "best value" public universities in the nation (The Princeton Review's "America's Best Value Colleges"). CSULB's College of Natural Sciences & Mathematics (CNSM) offers students access to nationally renowned academic programs on a campus that is student-centered, service-oriented and globally engaged.

CSULB's **\$105 million state-of-the-art Hall of Science** is one of the most modern science complexes in the United States. It houses 29 teaching laboratories, 31 research laboratories, four lecture halls, five discipline-specific computer laboratories, three rooftop greenhouses, a rooftop astronomy observation platform, an academic and health professions advising center, a tutoring center and a science learning center.

The **Molecular & Life Sciences Center** is a cutting-edge teaching and research facility for chemistry, biochemistry and biological science students. The center houses 24 research laboratories, a fluorescent microscopy center, a cadaver laboratory and 19 teaching labs for anatomy and physiology, cell/molecular biology, immunology and genetics, general and organic chemistry and biochemistry.

With the support of a **\$3 million grant** from the California Institute for Regenerative Medicine (CIRM), students will be trained to enter the California workforce with long-term career opportunities as stem cell researchers.

Dr. Claudia Ojeda-Aristizabal (Assistant Professor, Department of Physics & Astronomy) recently received a 3-year, **\$255,000 grant from the US Department of Energy** for her research on strongly correlated materials in the two-dimensional limit.

The CNSM offers a variety of **undergraduate research opportunities** through programs funded by the National Science Foundation and National Institutes of Health (NIH).

CSULB graduate student, Clariss Limso, won the **2018 Don Eden Graduate Student Research** award at the CSU Annual Biotechnology Symposium.

The Biological Sciences Department offers a **Stem Cell option** as part of its Biotechnology Certificate program that includes paid, twelve-month internships in stem cell laboratories at the City of Hope National Medical Center, Cedars-Sinai and at UC Irvine, funded by grants from the California Institute for Regenerative Medicine.

With the support of a **\$500,000 grant from the W.M. Keck Foundation**, the Physics and Chemistry departments are launching an interdisciplinary energy-materials science undergraduate research program.

The CNSM is recognized for its **preeminent Marine Biology program and internationally renowned Shark Lab**. CSULB's Marine Biology faculty are noted for their applied research projects with undergraduates on "urban ocean" issues, such as overfishing, pollution, invasive species and wetlands habitat restoration.

CSULB'S Geological Sciences department has access to an abundance of 3D seismic data sets from local companies and access to offshore seismic data collected by using vessels of the CSU Ocean Studies Institute. Students are trained on advanced software used for 3D visualization and interpretation in industry settings.

The CNSM helps prepare 5% of all K-12 science and math teachers in California annually, making CSULB the top school in the CSU System for preparing single- and multiple-subject teachers.



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