

# College of Engineering

## Administration

**Dean:** Eugene A. Olevsky

**Associate Dean for Graduate Studies and Research:**  
Temesgen Garoma Ararssso (Interim)

**Associate Dean for Undergraduate Studies:**  
Yusef Ozturk (Interim)

**Assistant Dean for Student Affairs:** Theresa M. Garcia  
**Director of Veterans Internship:** Brittany Field

## Research Centers and Institutes

### Center for Electric Drive Transportation (CEDT)

Chunting C. Mi, Director

The Center for Electric Drive Transportation (CEDT) was established in 2011 with a grant from the U.S. Department of Energy Graduate Automotive Technology Education (GATE) program. The GATE initiative awarded \$6.4 million over the course of five years to support seven Centers of Excellence at American universities. The center focuses on three critical automotive technology areas: hybrid propulsion, energy storage, and lightweight materials. CEDT is dedicated to achieving the synergy among technological development, research, and graduate education in automotive engineering.

### Center for Industrial Training and Engineering Research (CITER)

Gustaaf B. Jacobs, Director

The Center for Industrial Training and Engineering Research (CITER) structures and enhances collaboration between industrial partners and SDSU. The primary objective is to connect SDSU engineering departments, faculty members, undergraduate, and graduate students with engineers and staff scientists of local industry. For more information, visit <http://citer.sdsu.edu/citer>.

### Center for Neural Technology (CNT - NSF ERC)

Samuel K. Kassegne, Deputy Director

The Center for Neural Technology is one of several Engineering Research Centers (ERCs) around the country funded by the National Science Foundation (NSF). The center is based at the University of Washington. San Diego State University, along with the Massachusetts Institute of Technology, are core partners of the center. The vision of the center is to revolutionize the treatment of spinal cord injury, stroke, and other debilitating neurological conditions by developing neural devices that will assist, improve, and restore sensory and motor function (<http://www.csne-erc.org>).

### Center for Renewable Energy and Energy Efficiency (REEE)

Asfaw Beyene, Director

The Center for Renewable Energy and Energy Efficiency (REEE) has supported educational and research activities in energy related areas since 1985. Undergraduate and graduate students and faculty from the mechanical engineering and electrical and computer engineering departments are involved in obtaining solutions to problems presented by industrial sponsors. Institute research projects cover a wide range of areas from optimizing energy resources to international energy studies. For more information, visit <http://reee.sdsu.edu>.

### Communication Systems and Signal Processing Institute (COSSPI)

Madhu S. Gupta, Director

This institute is engaged in educational, research, and service activities in the field of electronic communication systems, with an emphasis on radio frequency and digital signal processing aspects. Faculty, students, and industrial partners collaborate to advance the state-of-the-art in the institute's core areas of expertise, such as RF devices and integrated circuits, modems, receivers, transmitters, synthesizers, A-D and D-A converters, digital signal processing algorithms and hardware, antenna, and communication networks. Specific activities include research and design projects; development of products, software, algorithms, and techniques; and training programs including short courses. For more information, visit <https://electrical.sdsu.edu/COSSPI.php>.

### Concrete Research Institute

Mohamad Ziad Bayasi, Director

The Concrete Research Institute supports educational needs in civil engineering curriculum and concrete research performed for sponsors from industry and governments. The institute encompasses a wide range of topics. The main emphasis is currently on concrete materials and structures. Civil and environmental engineering faculty members are involved with finding optimum design solutions in bridges, seismic resistant structures, residential buildings, and retaining walls. For more information, visit <http://www.engineering.sdsu.edu/research/institutescenters.aspx>.

### Industrial Assessment Center (IAC)

Asfaw Beyene, Director

SDSU Industrial Assessment Center (IAC) is a program funded by the U.S. Department of Energy with a primary goal of (1) training the next generation of energy engineers by providing hands-on experience to undergraduate and graduate students and (2) promoting energy efficiency through service to small- and medium-sized manufacturing plants as well as other buildings with extensive energy use. The combined impact of these goals is expected to create clean jobs, enhance the competitiveness of U.S. industry in the global marketplace, help reduce the country's energy dependency, and promote clean environment by reducing emissions. For more information, visit <https://iac.sdsu.edu>.

### Smart Health Institute

Kee S. Moon and Yusuf Ozturk, Co-Directors

Smart Health Institute establishes an area of excellence focused on enhancing research infrastructure to facilitate research and support education in fundamental sensor technologies, wireless networking algorithms, machine learning, decision support systems, and smart medical treatment methods. The center responds to the need for high quality, economically efficient healthcare that is rapidly becoming one of the key economic, scientific, and societal challenges. For more information, visit <https://smarthealth.sdsu.edu/>.