Welcome to SDSU



College of Engineering

SDSU

Aerospace Engineering

Master of Science program (MSAE)



Come join us! The Aerospace Engineering Department at San Diego State University is interested in attracting talented students to our M.S. and Ph.D. degree programs offering specializations in aerodynamics, astrodynamics/ guidance and control, and structural mechanics. Our graduate programs through rigorous and innovative curriculum and high impact research experiences educate students to become the next generation of leaders in Aerospace Engineering.

Our faculty expertise includes aerodynamics, fluid mechanics, propulsion, structural mechanics, aeroelasticity, nondestructive evaluation, aerospace design, guidance and control, astrodynamics, mission analysis and systems Design. The proximity and the strong ties of our faculty to the local aerospace industry provide opportunities for students to interact with industry and to work on real life problems. Our Master's degree course offerings and scheduling is also optimal for working engineers.

Program highlights:

- Well-recognized graduate program
- Distinguished faculty
- State-of-the-art research facilities
- Close connections with aerospace industry and national labs

Funding Agencies: NASA, AFOSR, ONR, US Army, NSF, DoE, FAA and a variety of industrial sponsors.

About San Diego: San Diego, located on the Pacific Coast of Southern California, enjoys year-round good weather. The diverse population offers multicultural experiences and a cosmopolitan living experience. San Diego is also home to many engineering and high-tech companies, including Northrop Grumman, General Atomics, Lockheed Martin, Solar Turbines, Boeing, ViaSat, United Technologies Aerospace Systems, US Naval Air Systems Command and over 200 small companies that contribute to unmanned systems and space systems.



Joseph Katz Professor Expertise: Fluid Mechanics, Aerodynamics Email: jkatz@mail.sdsu.edu

https://aerospace.sdsu.edu/faculty/josephKatz





Ping Lu Professor and Chair Guidance and Control, Aerospace Autonomy Email: plu@sdsu.edu

Prof. Lu's research group of undergraduate, MS and PhD students in the Computational Guidance and Control





Gustaaf (Guus) Jacobs

Professor Computational Fluid Dynamics CFD gjacobs@mail.sdsu.edu

https://newscenter.sdsu.edu/citer/



Unsteady Simulation of Flow in Propulsion Systems



Ahmed Bani-Younes Associate Professor Astrodynamics, Spacecraft Guidance Navigation and Control abaniyounes@sdsu.edu

Lab webpage: https://space.sdsu.edu



Spacecraft Platform for Astronautics and Celestial Emulation



Satchi Venkataraman

Professor Aerospace Structures, Composite Materials, and Design Optimization Email: satchi@mail.sdsu.edu

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Luciano Demasi Professor Expertise: Aerospace Structures, Aeroelasticity Email: Idemasi@mail.sdsu.edu

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Xiaofeng Liu Associate Professor Experimental Fluid Dynamics, Aerodynamics and Multiphase Flow Xiaofeng.Liu@sdsu.edu

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Laboratory of Advanced Experimental Fluid Dynamics



Pavel Popov Assistant Professor CFD, Propulsion, Plasma-combustion interactions ppopov@sdsu.edu

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Visualization of a turbulent hydrogen jet in air crossflow



Jun Chen Assistant Professor Dynamics, Control, and Optimization for largescale networked dynamical systems jun.chen@sdsu.edu

Lab webpage: https://junchen.sdsu.edu/



Autonomy & Control for Intelligent Air Transportation



Qi Wang Assistant Professor Aerodynamics, Fluid Mechanics Email: qwang4@sdsu.edu

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Big-data strategy for fast pollution tracking

NDE Research Clinic

SDSU

Margherita Capriotti

Assistant Professor Non-destructive evaluation techniques, ultrasonic guided wave (UGW) propagation and scattering, composite structures and biomedical applications mcapriotti@sdsu.edu



Non-Destructive Evaluation (NDE) database and analysis for damage characterization



Pablo Machuca

Visiting Assistant Professor Expertise: Astrodynamics, Autonomous GNC, Mission Analysis, Systems Design Email: pmachuca@sdsu.edu

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Trajectory Design, Autonomous Optical Navigation, CubeSat Systems Design, and GNC

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