

# University of South Florida

DEPARTMENT OF MECHANICAL ENGINEERING

MEET OUR JUNIOR FACULTY



**David Murphy, PhD**

Received a 2017 Early-Career Research Fellowship from the Gulf Research Program of the National Academies of Sciences, Engineering, and Medicine for work on the dispersion and human health impacts of oil spills.



**Wenjun Cai, PhD**

Received the 2017 The Minerals, Metals & Materials Society (TMS) Young Leaders Professional Award and a 2015 NSF CAREER Award.



**Jonathan Gaines, PhD**

Received a \$450,000 NSF grant to support the USF Bulls-EYE Mentoring Program “Engineering Youth Experience for Promoting Relationships, Identity Development, and Empowerment - EYE PRIDE”.



**Tansel Yucelen, PhD**

Received a 2016 Aerospace Control and Guidance Committee Dave Ward Memorial Lecture Award for outstanding contributions to the field of adaptive control.



**Kyle Reed, PhD**

Received the University of South Florida Excellence in Innovation Award for exceptional achievement in research and innovation related to three licensed patents.

The Mechanical Engineering Department at University of South Florida has over 1,000 undergraduate and 200 graduate students with 20 faculty members. Our students come from over 50 countries. Our engineering graduates are making a deep impact on the society. Several of our alumni are successful entrepreneurs and hold senior positions in large corporations. Our faculty members are committed to conducting research as a means of improving society, increasing the nation's prosperity, and maintaining up-to-date teaching instruction. Most of the research in the department is interdisciplinary and collaborative. Areas of research include robotics, biomedical and tissue engineering, nanomaterials and nanomanufacturing, biosensors and biofluids, animal biomechanics, oil spills, clean energy technologies, compliant mechanisms, rehabilitation engineering, autonomous vehicles and networked multiagent system. Sponsors include government agencies such as NSF, NIH, DOE, DOD and NASA, non-profit organizations, and also the private sector.

Our faculty and students have received close to 50 patents through innovative research as well as design courses at both undergraduate and graduate levels. The program has active student sections of ASME and SAE centered on national and international design competitions. The department has ten professional society fellows; and several prestigious national teaching and research award winners including the



**Rajiv Dubey, PhD**

Professor and Chair

2012 US Professor of the Year awarded by the Carnegie Foundation for the Advancement of Teaching, five NSF CAREER awardees, and one NSF PECASE awardee.

The University of South Florida system has more than 50,000 students and is ranked 28th in the nation for research expenditures among all public universities. The USF System was awarded a record \$458.5 million in contracts and grants in fiscal year 2016. The USF System ranks 5th in the nation among public universities and 11th world-wide for granted U.S. patents among all universities according to the Intellectual Property Owners Association/NAI (2016).

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