

Fall
2015

NEW WAVE NEWS

[Alumnus Wins \\$1 Million in Robotics Competition »](#)[Brain Signals »](#)[Read Other News »](#)

ACCOLADES

Cell and Molecular Biology Professor Jeffrey Tasker was awarded a 5-year, \$1.8M from the NIH to study how stress impacts the formation of fear memories in the brain by stimulating the production of endocannabinoid, the brain's cannabis, in the amygdala.

Cell and Molecular Biology Professor Jeffrey Tasker was awarded \$450,000 from the NSF for 3 years to study how food deprivation, or fasting, affects the physiology of drinking via the action of a gut hormone, ghrelin, on neurons in the brain that secrete vasopressin, the antidiuretic hormone, into the blood to control fluid homeostasis.

Chemistry Associate Professor Janarthanan Jayawickramarajah was awarded \$353,967 from the NIH to obtain a high throughput and sensitive Biacore T200 surface plasmon resonance instrument that will enable rapid and quantitative probing of a variety of biomolecular interactions.

Chemistry Associate Professor

Message from the Dean

Nicholas J. Altiero, Dean

It's been a busy and eventful summer for the School of Science and Engineering but the beginning of a new academic year brings with it the excitement of welcoming our newest class of discoverers and innovators!

[Read Dean's Message »](#)

Tulane Researchers Receive \$1.4 Million to Pay Attention

Article by Barri Bronston

Why are people startled by the sound of a car backfiring? What causes them to turn their attention away from what they are doing and toward the location of the sound?

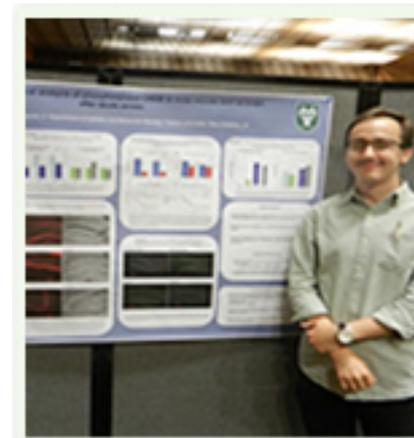
Edward Golob, an associate professor of psychology at Tulane University, is the principal investigator on a \$1.4 million, five-year grant from the National Institutes of Health that will study how such auditory spatial attention, which scientists believe is vital to the survival of both humans and animals, operates in the brain.

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The Tulane Undergraduate Research in Neuroscience: Exploring the Mysteries of the Brain

Article by Benjamin Morris

For such a small organ, it is a source of some wonder that the study of the brain is so large. Now one of the fastest-growing areas of medical and biological research, neuroscience is a top career choice for aspiring physicians and researchers seeking to



Janarthanan Jayawickramarajah was awarded \$285,950 from the NIH to continue to develop novel approaches to activate molecules that inhibit cancer targets in response to cancer-associated microRNA (miR-21).

Ecology and Evolutionary Biology Associate Professor Michael Blum was awarded \$1,253,051 from the Department of Defense to characterize the restoration of streams in Hawaii for the protection of at-risk migratory fish.

Chemical and Biomolecular Professor and Dept. Chair Anne Robinson will be presented with "The Biotechnology Progress Award for Excellence in Biological Engineering Publication" at the AIChE meeting this fall.

[More on this award »](#)

Chemical and Biomolecular Professor Daniel Shantz has recently published a perspectives article in the American Institute of Chemical Engineering (AIChE) Journal.

[Read More »](#)

Chemical and Biomolecular Engineering Associate Professor Noshir Pesika's graduate student, Leila Pashazanusi, won 1st place (People's choice award) at the 89th American Chemical Society Colloid and Surface Science symposium held at Carnegie Mellon University, Pittsburgh, PA from June 15-17th, 2015.

[Conference Website »](#)

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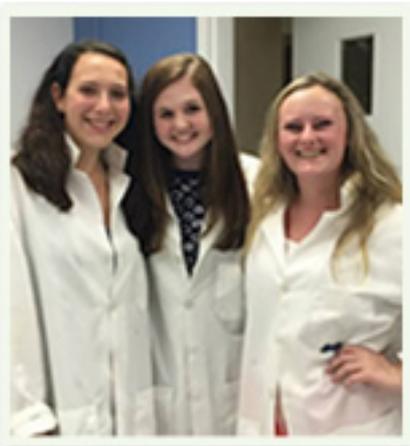
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FEEDBACK

enter graduate-level work. Yet opportunities as an undergraduate to directly participate in neuroscience research can be few and far between — except, that is, for Tulane undergraduates.

[Read Full Story »](#)



The Tulane Science Scholars Program: Creating the Scientists of Tomorrow

Article by Benjamin Morris

In today's competitive academic environment, students face more pressure than ever to find the right university, the right major, the right internship, and the right career choices. To many students, the questions can seem daunting, even insurmountable—how will they choose the

right program? How will they know which degree is right for them? How can they be protected from making a mistake?

[Read Full Story »](#)

A Vision for a Maker Space

Article by Kirby Messinger

What if you could build virtually any structure that you can imagine? Tulane University students will soon be able to create anything they can imagine thanks to the vision of alumni and faculty.

Located in the former engineering machine shop, the Maker Space is a center for design, invention, innovation and fabrication. What was an antiquated machine shop is now a beacon of creativity and technological innovation, the first of its kind at Tulane. A 1,000-square-foot ideation gallery rises above 3,000 square feet of shop floor fitted with high-volume modern prototyping tools alongside traditional hand and power tools.



Architectural renderings by Charles Jones and David Merlin, principals at One to One Design, LLC.

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Summer Research Opportunities for Undergraduates Interested in Materials Science and Engineering

Summer 2016

[For More Information »](#)

[SMART-REU Website »](#)

Save the Date for the 2016 Tulane Engineering Forum

We Want to Hear From You!

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Upcoming Events

School of Science and Engineering Highlights

School of Science and Engineering Distinguished Leadership Circle Reception

Thursday, November 5, 2015
6 PM – 8 PM
Audubon Golf Clubhouse
Invitation Only

School of Science and Engineering Homecoming 2015 Celebration Open House | Research Lab Tours

Friday, November 6, 2015
2 PM – 4 PM
Boggs Center for Energy & Biotechnology
First Floor Lobby
Everyone is Invited

[View All Events »](#)

School of Science and Engineering 2015 Homecoming Tailgating Tent

Saturday, November 7, 2015
TBD
Lavin-Bernick Center for University Life Quad
Everyone is Invited

Girls in STEM at Tulane (GIST)

Saturday, November 14, 2015
8:30 AM – 3 PM
Boggs Center for Energy & Biotechnology
First Floor Lobby

[For More Information »](#)

[See a weekly schedule of Science and Engineering Seminars open to the public »](#)

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