

RIT College of Science Grant Awards

Faculty across the College of Science are leaders in receiving peer-reviewed federal and state grants to support our students and research laboratories.

Initial Awards: November-December

ORNL DIRSIG Damage Assessment Data Synthesis and Models

Initial Award: 12/24/2025

PI: Scott Brown

Accommodation to polychromatic stimuli

Initial Award: 12/11/2025

PI: Benjamin Chin

Initial Awards: September-October

Radiation Resistant Solar and Laser Power Converter for Lunar Applications

Initial Award: 10/29/2025

PI: Seth Hubbard

Collaborative research: DMS/NIGMS 2: Multiscale modeling of stimuli responsive drug delivery systems

Initial Award: 10/16/2025

PI: Michael Cromer

ORbital Architectures for Cooperative Laser Energetics (ORACLE)

Initial Award: 09/18/2025

PI: Seth Hubbard

Historic Photographic Silver Mirroring Documentation and Quantification Utilizing Polarized Imaging

Initial Award: 09/12/2025

PI: David Messinger

Unraveling nickel delivery pathways in methanogenic archaea

Initial Award: 09/03/2025

PI: Stefan Schulze

Initial Awards: July - Auust

Elucidating the roles of protein glycosylation in prokaryotes through functional glycoproteomics

Initial Award: 08/29/2025

PI: Stefan Schulze

Biodiversity Characterization of Wetlands and Other Terrestrial Habitats from Hyperspectral and Multi-modal Remote Sensing

Initial Award: 08/28/2025

PI: Charles Bachmann

Leveraging Citizen Science Measurements to Efficiently Identify Galaxy Pairs

Initial Award: 08/22/2025

PI: Jeyhan Kartaltepe

Collaborative Research: Promoting Computational Literacy in Biochemistry and Molecular Biology Education

Initial Award: 08/21/2025

PI: Paul Craig

A Foundational Model for Extragalactic Spectroscopy: Combining Transformer-Based Deep Learning and Citizen Science

Initial Award: 08/20/2025

PI: Jeyhan Kartaltepe

Full Numerical Studies of Extreme and Eccentric Binary Black Hole Mergers

Initial Award: 08/14/2025

PI: Carlos Lousto

Collaborative Research: Developing a causal map assessment tool for undergraduate career interest formation and decision-making

Initial Award: 08/08/2025

PI: Benjamin Zwickl

LEAPS-MPS: Machine Learning the Variational Space for Efficient Quantum Embedding Simulations of Strongly Correlated Matter

Initial Award: 08/06/2025

PI: Nicola Lanata

NSF Convergence Accelerator Track M: BioShield CP: A microbial coating system for resilient corrosion protection

Initial Award: 07/30/2025

PI: Blessing Emerenini

LEAPS-MPS: Bridging Combinatorics and Eigenvalue Multiplicities: Advances in Spectral Graph Theory

Initial Award: 07/18/2025

PI: Shahla Nasserasr

A Phase II Study Evaluating the Safety and Efficacy of Whole- Cell Pneumococcal Vaccine (wSp) in Reducing Nasopharyngeal Colonization by *Streptococcus pneumoniae* in Young Children

Initial Award: 07/08/2025

PI: Robert Parody

Collaborative research: Mechanical phase transitions organizing cartilage function

Initial Award: 07/07/2025

PI: Moumita Das

Holistic Study of Nearby Young Moving Groups

Initial Award: 07/02/2025

PI: Joel Kastner

Initial Awards: May - June

Phase boundaries and liquid structure of concentrated eye lens protein mixtures

Initial Award: 06/30/2025

PI: George Thurston

Freeform Direct Writing of Waveguide Lasers Integrated with Bragg Gratings

Initial Award: 05/30/2025

PI: Jie Qiao

Collaborative Research: Elucidating cycling and deactivation mechanisms of earth-abundant CO₂ looping sorbents under precise temperature control

Initial Award: 05/30/2025

PI: Pratik Dholabhai

A new tool to monitor the resilience of mangroves to sea level rise

Initial Award: 05/19/2025

PI: Robert Chancia

CLUTCH: The COSMOS Legacy UV-Optical Treasury Campaign with Hubble

Initial Award: 05/13/2025

PI: Jeyhan Kartaltepe

NeXolve RCD Radiometry

Initial Award: 05/06/2025

PI: Charles Bachmann

Initial Awards: March - April

Grower Ready Drone Tutorial Case Study: Vineyard Pruning Weight

Initial Award: 04/29/2025

PI: Robert Chancia

Initial Awards: January - February

CAREER: Jamming and Phase Transition of a Suspension of Soft Particles in Porous Media

Initial Award: 02/24/2025

PI: Shima Parsa

Multiwavelength Studies of Nearby, Young Stars: the Early Evolution of Stellar Rotation and High-energy Emission

Initial Award: 02/12/2025

PI: Joel Kastner

Orthogonal Cavity Long-Range Laser Power Beaming Receiver (ORCA)

Initial Award: 01/20/2025

PI: Seth Hubbard