Department of Physics, Astronomy, and Geosciences

Research Mentors and Research Areas

The table below indicates which faculty members in the Department of Physics, Astronomy, and Geosciences are recruiting new undergraduate research students.

Physics and Astronomy

Faculty Name	**Research Area(s)**	Actively recruiting new research students; email faculty member for details	No immediate openings, but email inquiries from interested students are welcome	Not currently accepting inquiries from prospective research students
Parviz Ghavamian	Supernova remnants, shock waves, cosmic-ray acceleration, interstellar dust	X		
Phuoc Ha	Theoretical particle physics, strong interactions, physics beyond Standard Model, computational physics	X		
Dylan Hilligoss	Stellar and brown dwarf astronomy, observatory-based research	x		
Alan Jackson	Planet formation and evolution, computational and theoretical planetary science		X	
Rajeswari Kolagani	Condensed matter and materials physics, metal oxide thin films	X		
Nicolas Kudsieh	Optics, applied physics, III-nitride light emitters	X		

Faculty Name	**Research Area(s)**	Actively recruiting new research students; email faculty member for details	No immediate openings, but email inquiries from interested students are welcome	Not currently accepting inquiries from prospective research students
Abdul Naseer Malmi-Kakkada	Computational biophysics, cell migration, tumor growth, cell signaling	X		
James Overduin	Gravitation, cosmology, relativity and astroparticle physics	X		
Christian Ready	Planetarium outreach	X		
Miguel Requena Torres	Radio astronomy, astrochemistry of the interstellar medium		X	
Jennifer Scott	Galaxies, quasars, intergalactic medium		X	
David Schaefer	Nanotechnology, atomic force microscopy, materials science		X	
Jeffrey Simpson	Experimental condensed matter physics, graphene, carbon nanotubes, Raman spectroscopy	X		
Vera Smolyaninova	Metamaterials, superconductors, unconventional electromagnetic waves		X	
Jia-An Yan	Computational condensed matter physics,2D materials	X		

Geosciences

Faculty Name	**Research Area(s)**	Actively recruiting new research students; email faculty member for details	No immediate openings, but email inquiries from interested students are welcome	Not currently accepting inquiries from prospective research students
Michelle Casey	Paleoecology, environmental disturbance, conservation paleobiology			X
George Guice	Plate tectonics, structural geology, isotope geochemistry		X	
Andrew Hawkins	Sedimentology, stratigraphy, oceanography, geology	X		
Peggy McNeal	Geoscience education, spatial reasoning, geophysical fluid processes		X	
Joel Moore	Critical zone processes, including mineral weathering, soil development, and stream geochemistry Effects of urbanization on stream and soil geochemistry, including deicing (road) salt		X	
Wendy Nelson	Mantle and crust evolution, geochemistry, volcanism, subduction	X		

Faculty Name	**Research Area(s)**	Actively recruiting new research students; email faculty member for details	No immediate openings, but email inquiries from interested students are welcome	Not currently accepting inquiries from prospective research students
Eriks Perkons	Environmental geology, sustainability, natural resources	X		