

Award	First Name	Last Name	Major	Mentor First Name	Mentor Last Name	Mentor Department	Project Title
Student Salary	Timothy	Arleo	Mechanical Engineering (ME)	David	Ku	Mechanical Engineering	Comparing medical device material thrombogenicity using fiber optic epifluorescent imaging
Student Salary	Rachel	Barker	Physics (PHYS)	Simon	Sponberg	Physics	Coordination and control of flight in the hawk moth <i>Manduca sexta</i>
Student Salary	Parker	Buntin	Materials Science and Engineering (MSE)	Faisal	Alamgir	Materials Science and Engineering	Tuning Strain for Catalysts in Proton Exchange Membrane Fuel Cells with 2D Materials
Student Salary	Themija	Chandraratna	Computer Science (CS)	Melody	Jackson	Interactive Computing	Recognizing Error Related Feedback from Physiological Indicators
Student Salary	Anthony	Chen	Mechanical Engineering (ME)	David	Hu	Mechanical Engineering	Urethra is a biological nozzle
Student Salary	Nathaniel	Cann	Physics (PHYS)	Daniel	Goldman	Physics	Using X-ray and CT imaging to Track Movement of Prey through Ant Colonies
Student Salary	Anne	Coogan	Biomedical Engineering (BMED)	Johnna	Temenoff	Biomedical Engineering	Explore of Biological Factors at Play in Rotator Cuff Tear Injuries
Student Salary	Caroline	Dalluge	Psychology (PSY)	Christopher	Hertzog	Psychology	Older Adults' Use of Memory Strategies in Everyday Life
Student Salary	Stanley	David	Physics (PHYS)	Kenneth	Brown	Chemistry and Biochemistry	Evaluation of Quantum Error Correcting Codes
Student Salary	Quincy	Faber	Chemistry (CHEM)	Raquel	Lieberman	Chemistry and Biochemistry	Crystallization and Structural Determination of von Wildebrand Domains of Chordin Pertaining to its Interactions with ONT1
Student Salary	David	Fogg	Biochemistry (BCHM)	Andreas	Bommarius	Chemical and Biomolecular Engineering	Accessibility: A Key Parameter for Enzymatic Hydrolysis and Pretreatment Prediction
Student Salary	Andrew	Hong	Mechanical Engineering (ME)	Levi	Wood	Mechanical Engineering	Microfluidic Assays Modeling Vascular Dysregulation in Alzheimer's Disease and to Understand the Role of Amyloid Beta (A β)
Student Salary	Qixuan	Hou	Computer Science (CS)	Calton	Pu	Computer Science	ReVi: Easy and Accurate Reporting of Critical Infrastructure Events for Resiliency Research
Student Salary	Nida	Javaid	Aerospace Engineering (AE)	Brian	Gunter	Aerospace Engineering	Final Fabrication, Assembly, and Testing of the RANGE Nanosatellite Mission
Student Salary	Hua	Jiang	Mechanical Engineering (ME)	Christophere	Saldana	Mechanical Engineering	In situ volumetric tracking of deformation in model complex solids
Student Salary	William	Jun	Aerospace Engineering (AE)	Marcus	Holzinger	Aerospace Engineering	Command and Data Handling Testing and Preparation for Flat-Sat Integration
Student Salary	Naveena	Karusala	Computer Science (CS)	Neha	Kumar	Interactive Computing	Offline Media Sharing in Low-resource Contexts
Student Salary	Brian	Kim	Biomedical Engineering (BMED)	Robert	Butera	Biomedical Engineering	A STUDY OF CONSTANT CURRENT VERSUS CONSTANT VOLTAGE VAGAL STIMULATION
Student Salary	Gerina	Kim	Biomedical Engineering (BMED)	David	Hu	Mechanical Engineering	SOLID MATTER TRANSPORT BY ELEPHANT TRUNKS
Student Salary	Tyler	LaBean	Computer Science (CS)	Peter	Presti	Interactive Media Tech Center	Wearable Gesture Recognition with Heterogeneous Cameras
Student Salary	Chenyang	Liang	Mechanical Engineering (ME)	Paul	Neitzel	Mechanical Engineering	Blood Spatter Forensic Analysis of Droplet Impacts on Inclined Surfaces
Student Salary	Erick	Lin	Computer Science (CS)	Byron	Boots	Interactive Computing	Linear Recurrent Convolutional Networks for Segment-Based Multiple Object Tracking
Student Salary	Wenyao	Ma	Mechanical Engineering (ME)	Satish	Kumar	Mechanical Engineering	Thermal Management of AlGaIn/GaN based High Electron Mobility Transistors Using Embedded Micro-Channels
Student Salary	Kylee	McLain	Biomedical Engineering (BMED)	Ajit	Yoganathan	Biomedical Engineering	Patient specific anatomic models for bench-top hemodynamic studies
Student Salary	June	Moon	Biology (BIO)	Yuhong	Fan	Biology	Role of Ascl1 in Embryonic Stem Cell Differentiation
Student Salary	Hilba	Murali	Computer Engineering (CMPE)	Gregory	Durgin	Electrical and Computer Engineering	Wireless Energy Harvesting Using Inkjet-Printed PET Plastic Circuits
Student Salary	Natalie	Murray	Physics (PHYS)	Simon	Sponberg	Physics	Study on the Centralization of Cockroaches at High Speeds Using Robotics
Student Salary	Armel Ya Tomene	Nsiangani	Biomedical Engineering (BMED)	Ross	Ethier	Biomedical Engineering	Understanding the role estrogen plays in biomechanical properties of the eye
Student Salary	David	Oakland	Chemical and Biomolecular Engineering (CHBE)	Hang	Lu	Chemical and Biomolecular Engineering	In Vivo Microfluidic Mechanical Sensory Imaging in Developing <i>C. elegans</i>
Student Salary	Andrew	Pan	Biomedical Engineering (BMED)	Spyros	Pavlostathis	Civil and Environmental Engineering	Development of a Laccase-Carbon Nanotube (L-CNT) Microbial Fuel Cell for Power Generation from Waste Water.
Student Salary	Jimin	Park	Mechanical Engineering (ME)	Seung-Kyum	Choi	Mechanical Engineering	Development of additive printing filament using recycled paper-polymer composite
Student Salary	Parth	Patel	Biomedical Engineering (BMED)	Dr. Young-Hui	Chang	Applied Physiology	Frontal plane joint moment analysis associated with osteoarthritis in lower extremity amputees during split-belt treadmill walk
Student Salary	Kane	Patel	Biology (BIO)	Joseph	Lachance	Biology	Generalizing disease association in non-study populations
Student Salary	Steven	Pubillonnes	Biomedical Engineering (BMED)	Stephen	Sprigle	Architecture	Design and evaluation of wheelchair cushions for use in underserved areas
Student Salary	Rick	Saha	Biomedical Engineering (BMED)	Edward	Botchwey	Biomedical Engineering	TMS-EEG Cortical Mapping
Student Salary	Andrea	Santiago	Biomedical Engineering (BMED)	Mark	Prausnitz	Chemical and Biomolecular Engineering	Microneedle Patches in Dermatology: How Well Do Microneedles Increase Skin Permeability
Student Salary	Tyler	Tippens	Physics (PHYS)	Sven	Simon	Earth and Atmospheric Sciences	Energetic Particles in Callisto's Electromagnetic Environment
Student Salary	David	Umo	Chemical and Biomolecular Engineering (CHBE)	Ryan	Lively	Chemical and Biomolecular Engineering	Synthesis of Zeolite Socony Mobil-5 (ZSM-5) with tunable mesoporosity for adsorption of CO ₂ and catalysis of organic compounds
Student Salary	Jackson	Vance	Computational Media (CM)	Peter	Yunker	Physics	The Effect of Out of Plane Curvature on Capillary Interactions on the Air-Water Interface
Student Salary	Aditya	Vishwanath	Computer Science (CS)	Neha	Kumar	Interactive Computing	Learning About Teaching in Low-Resource Indian Contexts
Student Salary	Charles	Wang	Applied Mathematics (MATH)	Josephine	Yu	Mathematics	Integer Partition Polytopes
Student Salary	Zachary	Wilson	Civil Engineering (CE)	Lauren	Stewart	Civil and Environmental Engineering	Dynamic Testing of GDOT Guardrail Using CEE Velocity Generator
Student Salary	Avery	Yang	Mechanical Engineering (ME)	Shuman	Xia	Mechanical Engineering	Synthesis and Characterization of High-Performance Silicon-Based Composite Anodes for Lithium-Ion Batteries
Student Salary	Jing	Yu	Mechanical Engineering (ME)	Thomas	Kurfess	Mechanical Engineering	Converting Multi-Axis Machine tools into Subtractive 3D Printers using GPGPU-Generated Toolpaths
Student Salary	Youmei	Zhou	Mechanical Engineering (ME)	David	Hu	Mechanical Engineering	Comparative Study of Fingertip Sweating and its Effects on Tactile Manipulation in Humans and Animals
Travel	Siu	Chan	Mechanical Engineering (ME)	Yan	Wang	Mechanical Engineering	Cost Analytics Service For CyberManufacturing
Travel	Kweonhoon	Choi	Mechanical Engineering (ME)	Yan	Wang	Mechanical Engineering	Controlled Kinetic Monte Carlo Simulation of Laser Sintering in Dry Particle Deposition Systems
Travel	Alexis	Coates	Mechanical Engineering (ME)	Ayanna	Howard	Electrical and Computer Engineering	Employing Gestural Behaviors and Visual Cues on a Humanoid Robot to Increase Affect Recognition among Children with Autism
Travel	Ruonan	Dai	Mechanical Engineering (ME)	Yan	Wang	Mechanical Engineering	Controlled Kinetic Monte Carlo Simulation of Laser Sintering in Dry Particle Deposition Systems
Travel	Dezhi	Fang	Computer Science (CS)	Duen Horn	Chau	Computational Science & Engineering	M3: Scaling Up Machine Learning via Memory Mapping
Travel	Christine	Gebara	Aerospace Engineering (AE)	David	Spencer	Aerospace Engineering	Verification and Validation Methods for the Prox-1 Mission
Travel	Yanglong	Lu	Mechanical Engineering (ME)	Yan	Wang	Mechanical Engineering	Process-Oriented Data Exchange for Interoperable and Verifiable Additive Manufacturing
Travel	Allison	Moczynski	Biomedical Engineering (BMED)	Young-Hui	Chang	Applied Physiology	How to ride a bike: Adaptation to a split-crank ergometer
Travel	Chenliang	Yang	Mechanical Engineering (ME)	Yan	Wang	Mechanical Engineering	Process-Oriented Data Exchange for Interoperable and Verifiable Additive Manufacturing
Travel	Seong Ho	Yeon	Electrical Engineering (EE)	Stephen	DeWeerth	Biomedical Engineering	A Portable and Wireless Transcutaneous Electrical Nerve Stimulation System to Generate a Pressure Sensation on the Foot