

Award Type	First Name	Last Name	Major	Mentor First Name	Mentor Last Name	Mentor Department	Project Title
Salary Award	Avery	Agles	Chemical and Biomolecular Engineering (CHBE)	Marta	Hatzell	Mechanical Engineering	Salinity Gradient Energy Harvesting through Reverse Electrodialysis
Salary Award	Yahia	Ali	Biomedical Engineering (BMED)	Chethen	Pandarinath	Biomedical Engineering	Rodent Investigation of Motor Learning for Intuitive Control of Brain-Machine Interfaces
Salary Award	Pranusha	Atuluru	Biochemistry (BCHM)	Amit	Reddi	Chemistry and Biochemistry	Heme on Demand: Probing Heme Re-allocation in Response to Changes in Energy Metabolism
Salary Award	Farran	Bush	Chemical and Biomolecular Engineering (CHBE)	Joseph	Brown	Civil and Environmental Engineering	Maputo Sanitation Trial: Association between STH Infection and EED
Salary Award	Zachary	Butner	Mechanical Engineering (ME)	David	Hu	Mechanical Engineering	The Unfolding of Beetle Wings
Salary Award	Autumn	Caraway	Physics (PHYS)	Chandra	Raman	Physics	Direct Digital Synthesizer Driver
Salary Award	Erik	Centeno	Electrical Engineering (EE)	Gregory	Durgin	Electrical and Computer Engineering	5.8 GHz Energy Harvesting of Space Based Solar Power using Inkjet Printed Circuits on a Flexible, Transparent Substrate
Salary Award	Anthony	Chirumbole	Mechanical Engineering (ME)	David	Hu	Mechanical Engineering	Fluidized Bed for Black Soldier Fly Larvae
Salary Award	Josiah	Davidson	Chemical and Biomolecular Engineering (CHBE)	MG	Finn	Chemistry and Biochemistry	Effects of Cubic Silver Nanoparticles on the Sensitivity of Backscattering Interferometry Measurements in Solution
Salary Award	Younje	Do	Computer Science (CS)	Bistra	theodorou	Computational Science and Engineering	Human Migration Under Extreme Weather Events
Salary Award	Clay	Dodson	Mechanical Engineering (ME)	Rachel	Haga	Aerospace Engineering	The Modification and Testing of an Electronic Flight Bag in the Field
Salary Award	Amanda	Felouzis	Biomedical Engineering (BMED)	Craig	Forest	Mechanical Engineering	Efficiency Testing and Optimization of Microfluidic Chip Cleaning for Patch-Clamp
Salary Award	Adam	Finlay	Chemical and Biomolecular Engineering (CHBE)	Christine	Payne	Chemistry and Biochemistry	Patterned Differentiation of Stem Cells using Polymer Nanowires
Salary Award	Miranda	Fyfe	Mechanical Engineering (ME)	Lisa	Yaszek	Literature, Media, & Communication	The Lives and Literature of Early Women Science Fiction Writers
Salary Award	Kristin	Gao	Biomedical Engineering (BMED)	Ross	Ethier	Biomedical Engineering	The Effects of Stem Cell Therapies on Trabecular Meshwork Tissue Remodeling during Glaucoma
Salary Award	Hannah	Gersch	Biomedical Engineering (BMED)	Mark	Prausnitz	Chemical and Biomolecular Engineering	Discovery of Photoactive Agents for Treatment of Glaucoma
Salary Award	Srishti	Gupta	Aerospace Engineering (AE)	Mark	Prausnitz	Chemical and Biomolecular Engineering	Photo-responsive Drug Characterization for Treatment of Glaucoma
Salary Award	Dalton	Hutchison	Biomedical Engineering (BMED)	Todd	Sulchek	Mechanical Engineering	Isolation of antigen-specific plasma cells using Janus Particles
Salary Award	DeVon	Ingram	Physics (PHYS)	Lance	Fortnow	Computer Science	The Effect of Conditioning on Compression Complexity
Salary Award	Candice	Kaminski	Biomedical Engineering (BMED)	David	Hu	Mechanical Engineering	Pelleted Feces From Mammals
Salary Award	Jae Hyuk	Kim	Industrial Design (ID)	Young Mi	Choi	Industrial Design	Exploration of the use of wireless products by people with disabilities
Salary Award	Richard	Kim	Biomedical Engineering (BMED)	Ross	Ethier	Biomedical Engineering	Constructing a Better Glaucoma Model
Salary Award	Dimitrios	Kotinis	Aerospace Engineering (AE)	Evangelos	Theodorou	Aerospace Engineering	Trajectory Optimization of Autonomous Systems
Salary Award	Jonathan	Mitchel	Biomedical Engineering (BMED)	Jeffrey	Skolnick	Biological Sciences	Predicting Therapeutic Potential of Downregulated Metabolites in an Ovarian Cancer Model
Salary Award	Aimee	Moise	Chemical and Biomolecular Engineering (CHBE)	Andreas	Bommarius	Chemical and Biomolecular Engineering	Growth, expression, and purification of two enzymes: HmfF and HmfG
Salary Award	Kim Yen	Pham	Industrial Design (ID)	Young Mi	Choi	Industrial Design	Wireless features used by people with disabilities
Salary Award	Joshua	Qian	Chemical and Biomolecular Engineering (CHBE)	David	Ku	Mechanical Engineering	Relative contributions of shear rate and material surface to thrombosis in medical devices
Salary Award	Caelan	Radford	Biology (BIO)	Eric	Gaucher	Biological Sciences	Repeatable coevolution in replicate lineages of bacteria and their lytic phages
Salary Award	Yi Ting	Sam	Mechanical Engineering and Computer Science	Evangelos	Theodorou	Aerospace Engineering	Trajectory Optimization of Autonomous Controls on a Formation of Multi-rotors
Salary Award	Hannah	Santillo	Chemical and Biomolecular Engineering (CHBE)	Matthew	Reaff	Chemical and Biomolecular Engineering	Separation of Lignin and Ethylene Carbonate – Techno-economic Analysis
Salary Award	Kajol	Shah	Biomedical Engineering (BMED)	Levi	Wood	Mechanical Engineering	Quantitative Characterization of Glial Activation and Neuronal Death in an Alzheimer's Disease Microenvironment
Salary Award	Madelyn	Shelby	Chemical and Biomolecular Engineering (CHBE)	Mark	Styczynski	Chemical and Biomolecular Engineering	Micronutrient Bacterial Biosensor
Salary Award	Linda	Tian	Biomedical Engineering (BMED)	Zhong Lin	Wang	Materials Science and Engineering	Surface Bioengineering on a Triboelectric Nanogenerator (TENG) Biosensor Device
Salary Award	Xueqiao	Wang	Materials Science and Engineering (MSE)	Joshua	Kacher	Materials Science and Engineering	Crack Nucleation at PSB-GB Intersection During Cyclic Deformation in Al
Salary Award	Brian	Weaver	Materials Science and Engineering (MSE)	Brian	Gunter	Aerospace Engineering	TARGET
Salary Award	Trevor	Worthy	Materials Science and Engineering (MSE)	Matthew	McDowell	Materials Science and Engineering	Creating Nanoporous Metals for Electrochemical Processes
Salary Award	James	Wroe	Biomedical Engineering (BMED)	Andres	Garcia	Mechanical Engineering	Engineering Hydrogels to Deliver Species Specific Antimicrobials and Promote Bone Repair and Regeneration
Salary Award	Fei	Wu	Computer Engineering (CMPE)	Tushar	Krishna	Electrical and Computer Engineering	Architecting a Fog Computing Node using a Raspberry Pi Cluster
Salary Award	Jingwei	Xie	Chemical and Biomolecular Engineering (CHBE)	Christopher	Jones	Chemical and Biomolecular Engineering	Controlling intramolecular cooperativity of bifunctional aminosilica catalysts in acid-base catalyzed C-C bond forming reactions
Salary Award	Avery	Yang	Mechanical Engineering (ME)	Shuman	Xia	Mechanical Engineering	Synthesis and Characterization of High-Performance Silicon-Based Composite Anodes for Lithium-Ion Batteries

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Salary Award	Laura	Yang	Environmental Engineering (ENVE)	Peter	Yunker	Physics	Relationship between Spatial Structure of Biofilm and Spatial Gradient of Antibiotics
Salary Award	Winnie	Zambrana	Environmental Engineering (ENVE)	Joseph	Brown	Civil and Environmental Engineering	A study of Environmental Enteric Dysfunction in relation to enteric infections
Salary Award	Yichao	Zhao	Biomedical Engineering (BMED)	David	Hu	Mechanical Engineering	Underwater grasping by elephant trunks
Salary Award	You	Zheng	Biomedical Engineering (BMED)	M.G.	Finn	Chemistry and Biochemistry	PVC Medical Tubing Project
Travel Award	Monali	Shah	Biomedical Engineering (BMED)	Joe	Le Doux	Biomedical Engineering	Design in BME / Developing Design in Clinical Settings
Travel Award	Saurabh	Kumar	Computer Science (CS)	Charles	Isbell	Computer Science	State Space Decomposition and Subgoal Creation for Transfer in Deep Reinforcement Learning
Travel Award	Monali	Shah	Biomedical Engineering (BMED)	Jeremy	Ackerman	Biomedical Engineering	Design Development in Clinical Settings
Travel Award	Joseph	Sparta	Aerospace Engineering (AE)	Brandon	Sforzo	Aerospace Engineering	Model Development of Parachute Dynamics During Planetary Descent
Travel Award	Rick	Saha	Biomedical Engineering (BMED)	Michael	Borich	Biomedical Engineering	Spontaneous low frequency EEG fluctuations are abnormal in chronic stroke
Travel Award	Alex	Chen	Chemical and Biomolecular Engineering (CHBE)	Michael	Borich	Biomedical Engineering	Investigating the effects of sustained attention on motor cortex excitability
Travel Award	Jared	Churchwell	Aerospace Engineering (AE)	Joseph	Saleh	Aerospace Engineering	Epidemiology of Helicopter Accidents: Trends, Rates, and Covariates
Travel Award	Katherine	Zhang	Aerospace Engineering (AE)	Joseph	Saleh	Aerospace Engineering	Epidemiology of Helicopter Accidents: Inspection Blind Spots, Geographic Disparities, and Pilot Demographics
Travel Award	Taylor	McKie	Environmental Engineering (ENVE)	Kevin	Haas	Civil and Environmental Engineering	Optimization of a Point Absorber Design in Ocean Wave Energy Conversion
Travel Award	Arsh	Momin	Computer Science (CS)	Michael	Borich	Biomedical Engineering	Investigating the effects of sustained attention on motor cortex excitability
Travel Award	Kevin	Pluckter	Mechanical Engineering (ME)	Jun	Ueda	Mechanical Engineering	Predicting Task Intent From Surface Electromyography Using Layered Hidden Markov Models