

Award Type	First Name	Last Name	Major	Mentor First Name	Mentor Last Name	Mentor Department	Project Title
Salary Award	Asad	Abbas	Biomedical Engineering (BMED)	Wilbur	Lam	Biomedical Engineering	Influence of fluorescent stains in cell mechanics studies
Salary Award	Amalique	Acuna	Aerospace Engineering (AE)	Vishal	Acharya	Aerospace Engineering	Flame position-Shear Layer Offset Effects on Reacting Jet in Cross-flow Dynamics
Salary Award	Zachary	Althouse	Chemical and Biomolecular Engineering (CHBE)	Nian	Liu	Chemical and Biomolecular Engineering	Hybrid LLZO-PEGDA Electrolyte for Lithium Batteries
Salary Award	Ashley	Alton	Computational Media (CM)	Lisa	Yaszek	Literature, Media, & Communication	Transgender Narratives in Science Fiction
Salary Award	Roman	Balak	Mechanical Engineering (ME)	Yi	Mazumdar	Mechanical Engineering	Sensing and control for an omnidirectional soft robotic actuator
Salary Award	Katherine	Berg	Biology (BIO)	Lin	Jiang	Biological Sciences	Investigating the effects of Nanoparticles on the polymorphic life history of Tetrahymena vorax
Salary Award	Sarah Anne	Bowling	Physics (PHYS)	James C.	Gumbart	Physics	Sonification of Protein Molecular Dynamics for Multidisciplinary Data Analysis
Salary Award	Mathieu	Capuano	Computer Science (CS)	Evangelos	Theodorou	Aerospace Engineering	Learning and optimizing Fluid Flow Dynamics with Convolutional Long Short-Term Memory Networks and Model Predictive Control
Salary Award	Kevin	Chen	Computer Science (CS)	Sonia	Chemova	Interactive Computing	Semantic Mapping and Reasoning
Salary Award	Evelyn	Chen	Chemical and Biomolecular Engineering (CHBE)	Ellery	Ingall	Earth and Atmospheric Sciences	Detection of Biomolecules in Hypersaline Brine
Salary Award	Sahit	Chintalapudi	Computer Science (CS)	Byron	Boots	Interactive Computing	Covariance Optimization of Dynamic Mirror Descent Model Predictive Control
Salary Award	Hannah	Cho	Biochemistry (BCHM)	Raquel	Lieberman	Chemistry and Biochemistry	Biochemical and structural analysis of putative olfactomedin domains from bacteria
Salary Award	Aditi	Choudhury	Biochemistry (BCHM)	M.G.	Finn	Chemistry and Biochemistry	Targeted prodrug delivery to melanoma using prodrug-converting enzymes encapsulated in VLPs
Salary Award	Julia	Clendenin	Literature, Media, and Communication (LMC)	Lisa	Yaszek	Literature, Media, & Communication	Identifying Best Sound Practices for Radio Drama and Podcast Production
Salary Award	Sarajane	Crawford	Aerospace Engineering (AE)	Brian	Gunter	Aerospace Engineering	TARGET CubeSat Software Development
Salary Award	Isaac	del Valle	Aerospace Engineering (AE)	Julian	Rimoli	Aerospace Engineering	Development of a Soft Robotics Tensegrity Rover for Planetary Exploration
Salary Award	Zachary	D'Zio	Biochemistry (BCHM)	Raquel	Lieberman	Chemistry and Biochemistry	Characterization and Structural Determination of a Hypothetical Clathrate Binding Protein
Salary Award	Will	Epperson	Computer Science (CS)	Duen Horng	Chau	Computational Science & Engineering	FairVis: Discovering Bias in Machine Learning Models
Salary Award	Carolann	Espv	Biochemistry (BCHM)	Ingeborg	Schmidt-Krey	Biological Sciences	Structure-function studies by Cryo-EM of a large protein complex critical to photosynthesis
Salary Award	Tyrus	Evans	Aerospace Engineering (AE)	Yi	Mazumdar	Mechanical Engineering	Digital Holographic Phase Measurements for Shockwave Distortion Cancellation
Salary Award	Harrison	Fu	Biomedical Engineering (BMED)	Krishnendu	Roy	Biomedical Engineering	Production of Influenza-Specific B cells ex vivo using Hemagglutinin-Presenting Liposomes
Salary Award	Lina	Gu	Biomedical Engineering (BMED)	Hanjoong	Jo	Biomedical Engineering	Investigating the Role of miRNA-483 and UBE2C in Atherosclerosis
Salary Award	Baris	Gurses	Electrical Engineering (EE)	Morris	Cohen	Electrical and Computer Engineering	Ultra-low Noise Electric Field Receiver Design for Longwave Radio Reception
Salary Award	Molly	Halprin	Biomedical Engineering (BMED)	Flavio	Fenton	Physics	Investigating T-wave Alternans in Frog Hearts to Combat Arrhythmia
Salary Award	Faith	Harris	Biology (BIO)	Yury	Chernoff	Biological Sciences	Developing a yeast model for studying the aggregation of Microtubule associated protein Tau (MAPT)
Salary Award	Wiley	Helm	Environmental Engineering (ENVE)	Yonsheng	Chen	Civil and Environmental Engineering	Hydroponic Lettuce Growth and Substrate Utilization Kinetics
Salary Award	Shreykumar	Jain	Aerospace Engineering (AE)	Joseph	Oeflein	Aerospace Engineering	Use of Synthetic Turbulence for the Sensitivity Study of Chemical Mechanisms to Sub-Filter Turbulent Fluctuations
Salary Award	Chunjun	Jia	Computer Science (CS)	Hyesoon	Kim	Computer Science	Collaborative Execution of Deep Neural Networks on Internet of Things Devices and Its Applications
Salary Award	Dillon	Jones	Chemical and Biomolecular Engineering (CHBE)	Nian	Liu	Chemical and Biomolecular Engineering	Metal-Organic Frameworks Derived MnO2@C Nanorods for High-Energy Aqueous Rechargeable Zn Batteries
Salary Award	Coral	Kazaroff	Nuclear and Radiological Engineering (NRE)	Dan	Kotlyar	Mechanical Engineering	Economic Benefits for Higher Enriched Assays for 24-Month Cycle Length
Salary Award	Nam Young	Kim	Aerospace Engineering (AE)	Joseph	Oeflein	Aerospace Engineering	Development of Advanced Flow Physics Tracking Techniques for Turbulent Reacting Flows
Salary Award	Jessica	Kissel	Civil Engineering (CE)	Ching-Hua	Huang	Civil and Environmental Engineering	Formation of Radicals and Degradation of Micropollutants in Water/Wastewater Treatment Using UV Irradiation and Peroxy Acids
Salary Award	Jonathan	Leo	Computer Science (CS)	Duen Horng	Chau	Computational Science & Engineering	Mixed Reality for Learning Programming
Salary Award	Swei	Li	Computer Science (CS)	Duen Horng	Chau	Computational Science & Engineering	Argo - Cross-platform Interactive Large Graph Visualization tool using Web Technologies
Salary Award	Annabelle	Lint	Chemical and Biomolecular Engineering (CHBE)	Anant	Paravastu	Chemical and Biomolecular Engineering	Computational Approach Towards Solid-State NMR Experimental Design
Salary Award	Nidhi	Mehra	Biomedical Engineering (BMED)	Cassie	Mitchell	Biomedical Engineering	Predictive Medicine for Chronic Myeloid Leukemia
Salary Award	Jared	Meyers	Biomedical Engineering (BMED)	Gabe	Kwong	Biomedical Engineering	Engineering remote-controlled CAR T cells for the treatment of glioblastoma
Salary Award	Patrick	Miga	Aerospace Engineering (AE)	Glenn	Lightsey	Aerospace Engineering	Development of CubeSat Attitude Control System Validation for Rapid Spaceflight Mission Turnaround
Salary Award	Varun	Mosur	Biomedical Engineering (BMED)	Philp	Santangelo	Biomedical Engineering	Investigating the Improvement of Translational Efficiency and Longevity of In-vitro Transcribed mRNA
Salary Award	Priva	Nair	Biomedical Engineering (BMED)	Ajit	Yoganathan	Biomedical Engineering	Coronary artery obstruction in transcatheter aortic valve replacement (TAVR)
Salary Award	Anudeep	Nakirikanti	Neuroscience (NEURO)	Thackeray	Brown	Psychology	The Role of Basal Forebrain Degeneration and Cortisol as Biomarkers Mediating Alzheimer's Disease Pathology
Salary Award	Sarah	Nastasi	Civil Engineering (CE)	Bert	Bras	Mechanical Engineering	Revealed Preference Demand Estimation for Product Service Systems
Salary Award	Tiffany	Netto	Neuroscience (NEURO)	Ajit	Yoganathan	Biomedical Engineering	Comparison of Functional and Degenerative Mitral Regurgitation Patient Anatomies to More Effectively Predict the Risk of Left Ve
Salary Award	Sabrina	Noor	Aerospace Engineering (AE)	Mark	Costello	Aerospace Engineering	Development of a Low Speed Urban Wind Energy System
Salary Award	Jameson	Orvis	Chemical and Biomolecular Engineering (CHBE)	Alberto	Stolfi	Biological Sciences	The Genetic Basis of Contralateral Axon Projection in Descending Decussating Neurons
Salary Award	Andrew	Pan	Biomedical Engineering (BMED)	Todd	Sulchek	Mechanical Engineering	Janus Micromotors Amplify Immobilized Enzyme Activity
Salary Award	Michael	Pang	Biomedical Engineering (BMED)	Wilbur	Lam	Biomedical Engineering	Uniaxial force induced apoptosis of neuroblastoma
Salary Award	Vivaan	Patel	Chemical and Biomolecular Engineering (CHBE)	Seung	Woo Lee	Mechanical Engineering	Sulfophenyl-functionalized Reduced Graphene Oxide as a Protective Layer to Prevent Lithium Dendrite Growth
Salary Award	Nina	Patronis	Biomedical Engineering (BMED)	Rudolph	Gleason	Mechanical Engineering	Plethysmography Device for the Prediction of Preclampsia in Low Resource Environments
Salary Award	Isabela	Pavkov	Biochemistry (BCHM)	Stephen	Diggie	Biological Sciences	Impact of phenotypic diversity on antibiotic susceptibility
Salary Award	Adelle	Pavman	Aerospace Engineering (AE)	Andrew	Gunawan	Mechanical Engineering	Building an Automated System for Thermal Measurements of High-Temperature Heat Transfer Media in Concentrated Solar Power Plants
Salary Award	Kaya	Peterson	Biomedical Engineering (BMED)	Krishnedu	Roy	Biomedical Engineering	Investigating Structure and Cell Targeting Mechanism of Janus vs. Non-Janus Nanoparticles for Treatment of Immune Dysregulation
Salary Award	Elizabeth	Popenov	Materials Science and Engineering (MSE)	Vladimir	Tsukruk	Materials Science and Engineering	Development of Cellulose NanoCrystal Composite Films with Enhanced Mechanical Properties
Salary Award	Kira	Pyronneau	Materials Science and Engineering (MSE)	Mark	Losego	Materials Science and Engineering	Durability of Polyester Fabrics Infused with Inorganics via Vapor Phase Infiltration
Salary Award	Henry	Rose	Chemical and Biomolecular Engineering (CHBE)	Nian	Liu	Chemical and Biomolecular Engineering	An epitaxial coating approach for suppressing MnOx cathode dissolution in rechargeable aqueous batteries
Salary Award	Josephine	Rudd	Biochemistry (BCHM)	Brandon	Dixon	Mechanical Engineering	Stretch Mediated Mechanotransduction by Lymphatic Endothelial Cells
Salary Award	Michelle	Schroeder	Biochemistry (BCHM)	M.G.	Finn	Chemistry and Biochemistry	Discovery of anti-glycan monoclonal antibodies for diagnostic and immunotherapies using hybridoma technology
Salary Award	Yifan	Shen	Computer Engineering (CMPE)	Mark	Davenport	Electrical and Computer Engineering	Development of a Real-Time Weight Shift Activity Tracker
Salary Award	Brian	Singer	Computer Engineering (CMPE)	Brendan	Saltaformaggio	Electrical and Computer Engineering	Detecting Adversarial Samples on Deep Neural Networks via Weight Space Invariants
Salary Award	Sara	Singer	Biology (BIO)	David	Hu	Mechanical Engineering	Sensory-Motor Skills in Elephants
Salary Award	Adith	Srivatsa	Biomedical Engineering (BMED)	Omer	Inan	Electrical and Computer Engineering	Real-Time Activity Classification using Inertial Sensing to Trigger Wearable Joint Health Monitoring
Salary Award	Austin	Stachowski	Biomedical Engineering (BMED)	David	Ku	Mechanical Engineering	Development of a Prosthetic Meniscus Implant
Salary Award	Ariel	Steele	Civil Engineering (CE)	Yi-Chang	Tsai	Civil and Environmental Engineering	Enhanced Methodology to Automatically Assess Condition of Traffic Signs and Pavement Marking using LiDAR Technology
Salary Award	Kevin	Tao	Biomedical Engineering (BMED)	Gabe	Kwong	Biomedical Engineering	Ultrasensitive protein detection by CRISPR-Cas12a
Salary Award	Aditya	Tapshalkar	Computer Science (CS)	Bruce	Walker	Interactive Computing	Visualizing Participants' Localization Accuracy and Bias of Virtually Spatialized Sounds
Salary Award	Hannah	Theriault	Biomedical Engineering (BMED)	Andres	Garcia	Mechanical Engineering	Examination of the Effects of Varying hMSC Secretomes from Integrin-Specific Hydrogels on the Chemotaxis of Monocytes
Salary Award	Abhinav	Tirath	Computer Science (CS)	Usha	Nair-Reichert	Economics	Recurrent Neural Network Analysis of International Trade
Salary Award	Yashvardhan	Tomar	Aerospace Engineering (AE)	Narayanan	Komerath	Aerospace Engineering	An Aerospace Approach To Flood Warning
Salary Award	Luke	Tomasovic	Chemical and Biomolecular Engineering (CHBE)	Ravi	Kane	Chemical and Biomolecular Engineering	Glycosylated Lytic Enzymes with Antibacterial Activity towards Staphylococcus Aureus and Decreased Immunogenicity In Vivo
Salary Award	Andres	Troncoso	Architecture (ARCH)	Benjamin	Flowers	Architecture	StadiaLab: Advancing Data Visualization
Salary Award	Sommer	Vanden Heuvel	Biochemistry (BCHM)	Kim	Cobb	Earth and Atmospheric Sciences	Constraining the relationship between of D18Osw and salinity in the tropical Pacific Ocean

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Salary Award	Anna	Wang	Mechanical Engineering (ME)	Simon	Sponberg	Physics	Effect of Centralization on the Performance of the Minitaur Robot Over Rough Terrain
Salary Award	Xueqiao	Wang	Materials Science and Engineering (MSE)	C. P.	Wong	Materials Science and Engineering	Conductivity Development Study of Ultra Low Resistivity and High Electrical Stability Silo-Ag ECAs
Salary Award	Kyle	Xiao	Computer Science (CS)	Mark	Riedl	Interactive Computing	Quest-Based Deep Reinforcement Learning in Minecraft
Salary Award	Xinjing	Xu	Chemical and Biomolecular Engineering (CHBE)	Saad	Bhamla	Chemical and Biomolecular Engineering	Ultrafast Motility in a Single Cell Organism – Developing robotic analogs of ultrafast single cells
Salary Award	Lushuang	Zhang	Chemical and Biomolecular Engineering (CHBE)	Hang	Lu	Chemical and Biomolecular Engineering	Development of a Liquid Culture Platform for Examining the Effects of Dietary Restriction on Aging in C. Elegans
Salary Award	Katherine	Zhu	Biomedical Engineering (BMED)	Chethan	Pandarinath	Biomedical Engineering	Multi-Site Electrophysiology in Mice
Salary Award	Zhu	Zhuang	Computer Science (CS)	Melody	Jackson	Interactive Computing	Auditory Based Brain-Computer Interfaces in Simulated Driving Environment
Travel Award	Yasmine	Bassil	Neuroscience (NEURO)	Shella	Keilholz	Biomedical Engineering	Actionable Items To Promote Inclusivity in Scientific Workspaces & Events
Travel Award	Benjamin	Breer	Physics (PHYS)	Sven	Simon	Earth and Atmospheric Sciences	Energetic Ion Dynamics in the Perturbed Electromagnetic Fields near Europa
Travel Award	Isabel	Curro	Biomedical Engineering (BMED)	Gabriel	Kwong	Biomedical Engineering	Biological Transistors to Combat Antibiotic Resistance
Travel Award	Robert	Dabagia	Computer Engineering (CMPE)	Eva	Dyer	Biomedical Engineering	Learning shape primitives and generative models for whole-brain projectomes
Travel Award	Mohan	Dodda	Computer Science (CS)	Hyesoon	Kim	Computer Science	Enabling Speech to Text on Embedded Systems
Travel Award	Maya	Holikatti	Computer Science (CS)	Neha	Kumar	International Affairs	Learning to Airbnb by Engaging in Online Communities of Practice
Travel Award	Seth	Holland	Music Technology (MUSIC)	Nathaniel	Condit-Schultz	Music	Tracking the Beat: A Historical Analysis of Drum Beats in Anglo-American Popular Music
Travel Award	Kathryn	Jones	Chemical and Biomolecular Engineering (CHBE)	Woon-Hong	Yoo	Mechanical Engineering	Wireless, Flexible Microstructured Electrochemical Biosensor for a Smart Bioreactor
Travel Award	Nuzhat	Kabir	Biomedical Engineering (BMED)	Mark	Prausnitz	Chemical and Biomolecular Engineering	Synthesis and Topical Delivery of Pilocarpine Ionic Liquids
Travel Award	Emily	Kceton	Neuroscience (NEURO)	Lewis	Wheaton	Neuroscience	Kinematic Improvement Differs Between Transradial Versus Partial-Hand Prosthesis Use Following Interlimb Training
Travel Award	Jihoon	Kim	Mechanical Engineering (ME)	SeungSoon	Jang	Materials Science and Engineering	Investigating Hybrid Organic-Inorganic Tin Perovskites for Li-Ion Battery Applications: DFT Modeling Approach
Travel Award	Preksha	Kukreja	Biomedical Engineering (BMED)	Joseph	LeDoux	Biomedical Engineering	Role of Interpersonal Interactions on Students' Levels of Cognitive Engagement When Collaborative Solving Engineering Problem
Travel Award	Robert	Kuramshin	Computer Science (CS)	Seung Soon	Jang	Materials Science and Engineering	Analyzing the Bandgap of 3D Perovskite Oxides: Machine Learning Approach
Travel Award	Albert	Lee	Neuroscience (NEURO)	Cassie	Mitchell	Biomedical Engineering	Machine learning enhanced dynamic meta-analysis for preclinical ALS combination therapy optimization
Travel Award	Joseph	Miano	Computer Science (CS)	Eva	Dyer	Biomedical Engineering	Learning to Segment at Multiple Scales: From Brain Areas to Microstructure
Travel Award	Prahathishree	Mohanavelu	Computer Science (CS)	Cassie	Mitchell	Biomedical Engineering	Meta-Analysis on the Comparative Gastrointestinal Safety Profiles of Second-Generation BCR-ABL TKIs as Compared to Imatinib
Travel Award	Priva	Nair	Biomedical Engineering (BMED)	Ajit	Yoganathan	Biomedical Engineering	Effect of Transcatheter Aortic Valve Materials on Thrombosis: An ex vivo study
Travel Award	Kira	Pyronneau	Materials Science and Engineering (MSE)	Mark	Losego	Materials Science and Engineering	Durability of Property Changes in Polyester Fabrics Infused with Inorganics via Vapor Phase Infiltration
Travel Award	Anna	Romanov	Biomedical Engineering (BMED)	Gabe	Kwong	Biomedical Engineering	Precise T Cell Drug Delivery Using pHMC Liposomes
Travel Award	Nima	Shoghi Ghalehshahi	Computer Science (CS)	Hyesoon	Kim	Computer Science	SLAM Performance on Embedded Robots
Travel Award	Rocio	Soto	Literature, Media, and Communication (LMC)	Brandy	Blake	Literature, Media, & Communication	Exhibiting Identity
Travel Award	Lee-Kai	Sun	Biomedical Engineering (BMED)	Gabriel	Kwong	Biomedical Engineering	Designing Synthetic Gene Switches for Single-cue Thermal Control of Engineered T Cells
Travel Award	Eleanor	Turaski	Materials Science and Engineering (MSE)	Jud	Ready	Materials Science and Engineering	Fabrication and Characterization of Molybdenum Depositions for use in CZTS Solar Cells
Travel Award	Disha	Vasvani	Biomedical Engineering (BMED)	Joe	Le Doux	Biomedical Engineering	Exploring the role of interpersonal interactions on students' levels of cognitive engagement when collaboratively solving a chal
Travel Award	Xueqiao	Wang	Materials Science and Engineering (MSE)	Josh	Kacher	Materials Science and Engineering	Grain Boundary Morphology Evolution in Low Cycle Fatigue of High Purity Aluminum
Travel Award	Laura	Yang	Environmental Engineering (ENVE)	Nga Lee	Ng	Chemical and Biomolecular Engineering	Thermal Decomposition Characterization of Filter Inlet for Gases and AEROSOLS (FIGAERO) Coupled with Chemical Ionization Time-of
Travel Award	Natalie	Zukerman	Civil Engineering (CE)	Brandy	Blake	Literature, Media, & Communication	Exhibiting Identity