Award Type I	Ibrohim	Last Name	Major Mechanical Engineering (ME)	Ellen	Mentor Last Name Mazumdar		Project Title Pio Incrined Pulcating Vania Coral Soft Pohot with Compliant Electromagnetic Actuation
lary Award		Abdeally		Saad	Mazumdar Bhamla	Mechanical Engineering	Bio-Inspired Pulsating Xenia Coral Soft Robot with Compliant Electromagnetic Actuation
alary Award		Acharya	Chemical and Biomolecular Engineering (CHBE) Physics (PHYS)				Quantification of Emergent Damping Properties in Human Joints Polythylatin Floring Dynamics in Everyole Polythylad Floring property Engineering
alary Award		Addison Amthor		Sven Ellen	Simon Mazumdar	Earth and Atmospheric Sciences	Relativistic Electron Dynamics in Europa's Perturbed Electromagnetic Environment
alary Award alary Award		Augustine	Mechanical Engineering (ME) Aerospace Engineering (AE)	Marilyn	Smith	Mechanical Engineering	Hybrid Fluid and Tensile Actuation for Compliant Locomotion Reduced Order Modeling of Engine Effects on Aerodynamics for Design, Modeling, and Simulation
Salary Award		Awasthi	Biomedical Engineering (BMED)	YongTae	Kim	Aerospace Engineering Mechanical Engineering	Application of Induced Pluripotent Stem Cells For Endothelial Monolayer Formation in In-Vitro Blood-Brain Barrier Model
alary Award		Bae	Computer Science (CS)	Hyesoon	Kim	Computer Science	SLAM on Distributed Robotic Systems
Salary Award		Bamford	Materials Science and Engineering (MSE)	Mark	Losego	Materials Science and Engineering	Effect of Polymer Reactivity and Process Temperature on the Glass Transition of Vapor Phase Infiltrated (VPI) Hybrid Materials
Salary Award		Beard	Mechanical Engineering (ME)	Ye	Zhao	Mechanical Engineering	Robust perception for dynamic grasping skills in clutter
Salary Award			Biomedical Engineering (BMED)	Levi	Wood	Mechanical Engineering	Characterization of Microglial Immune Function in Response to Alzheimer's Pathology
Salary Award		Begazo Benson	Mechanical Engineering (ME)	Marilyn	Smith	Aerospace Engineering	Propeller and Rotor Performance Assessment for Urban Air Mobility
Salary Award		Ben-Yoseph	Chemical and Biomolecular Engineering (CHBE)	Nian	Liu	Chemical and Biomolecular Engineering	Rechargeable Silver Sponge Zinc Batteries: A Safer Alternative to Lithium-Ion While Maintaining High Energy Qualities
Salary Award		Blackburn	Biochemistry (BCHM)	Amit	Reddi	Chemistry and Biochemistry	The development of new fluorescent biosensors to probe the mechanisms underlying the insertion of heme into hemoglobin
Salary Award		Bordy	Mechanical Engineering (ME)	Susan	Thomas	Mechanical Engineering	Engineered Lymph Node Sinus On-A-Chip to Elucidate Mechanisms of Lymphatic Metastasis
Salary Award 1		Bowland	Chemical and Biomolecular Engineering (CHBE)	Mark	Prausnitz	Chemical and Biomolecular Engineering	Assessing the Safety of a New Method of Retinal Drug Delivery
Salary Award		Chakragiri	Biomedical Engineering (BMED)	Wilbur	Lam	Biomedical Engineering	Quantification and prediction of adverse neurological events in sickle cell anemia magnetic resonance angiography imaging
alary Award		Choudhury	Biology (BIO)	Matthew	Torres	Biological Sciences	Creating Ste18 Phospho-Mutants
alary Award		Chun	Electrical Engineering (EE)	Thomas	Gaylord	Electrical and Computer Engineering	High-Resolution 3D Quantitative Phase Imaging in Biomedicine
Salary Award 1		Dabagia	Computer Engineering (CMPE)	Eva	Dyer	Biomedical Engineering	Online Distribution Alignment for Neural Decoding
Salary Award		Dagher	Chemistry (CHEM)	MG	Finn	Chemistry and Biochemistry	Virus Like Particles as a Delivery Vehicle for Small Molecule Cargo
Salary Award		Eustice	Environmental Engineering (ENVE)	Marta	Hatzell	Mechanical Engineering	Investigating efficiencies of hybrid electrodes in performing electrochemical separations of brackish water through membrane CDI
Salary Award		Freeman	Neuroscience (NEURO)	Thackery	Brown	Psychology	Stress effects on the ability to learn statistical regularities about our world
Salary Award		Garlapati	Computer Science (CS)	Joseph	Lachance	Biological Sciences	Quantifying Genetic Load in Admixed Individuals
Salary Award		Harrison	Chemical and Biomolecular Engineering (CHBE)	Saad	Bhamla	Chemical and Biomolecular Engineering	Ultrasonic Drying of Nanocellulose
alary Award .		Hernandez	Biomedical Engineering (BMED)	Stanislav	Emelianov	Electrical and Computer Engineering	Development of a Tissue and Jugular Vein Model for Real Time Photoacoustic Imaging Blood Oxygen Saturation Measurements for T
Salary Award Salary Award		Holt	Biology (BIO)	Peter	Yunker	Physics	Effect of Flow Regime on Evolution of Clonal Clusters in Saccharomyces cerevisiae
alary Award Salary Award			Industrial Engineering (IE)	Gleb	Yushin	Materials Science and Engineering	Iron Fluoride Carbon Nanofibers in Sodium Ion Batteries
alary Award		Huang Inman	Biomedical Engineering (BMED)	Shu	Jia	Biomedical Engineering	Design and Construction of a Miniaturized Light Field Endoscope System
alary Award I		Jean	Chemistry (CHEM)	Mark	Losego	Materials Science and Engineering	Connecting Variations in Chain Mobility in Vapor Phase Infiltrated Poly(ethylene terephthalate) Hybrid Materials to Macroscopic
Salary Award		Jones	Chemical and Biomolecular Engineering (CHBE)	Woon-Hong	Yeo	Mechanical Engineering	Low-Profile, Flexible Electrochemical Biosensor for a Smart Bioreactor Integration
alary Award I		Joseph	Biomedical Engineering (BMED)	Valeria	Milam	Materials Science and Engineering	Identifying DNA Aptamer Candidates for a Molecular Cancer Target Ceramide
alary Award Balary		Kabir	Biomedical Engineering (BMED)	Mark	Prausnitz	Chemical and Biomolecular Engineering	Synthesis and Topical Delivery of Pilocarpine Ionic Liquids
alary Award		Karesh	Neuroscience (NEURO)	Machelle	Prausnitz	Biomedical Engineering	Neuroprotective Effects of Voluntary Exercise in a Retinal Degeneration Mouse Model
alary Award I		Kazman	Chemical and Biomolecular Engineering (CHBE)	Mark	Styczynski	Chemical and Biomolecular Engineering	Building a cell-free biosensor to quantify a pathogenic infection with a glucose monitor
alary Award		Khandal	Aerospace Engineering (AE)	Tim	Lieuwen	Aerospace Engineering	Counter Rotating Vortex Pair Structure in a Reacting Jet in Vitiated Crossflow
Salary Award I		Knandai	Biomedical Engineering (BMED)	David	Hu	Mechanical Engineering	Metabolic Scaling of Fire Ants Under Heat Stress
Salary Award 1		Lockyear	Chemical and Biomolecular Engineering (CHBE)	Andrey	Gunawan	Mechanical Engineering	High Temperature Thermophysical Property Measurement of Containment Materials
Salary Award		Luo	Neuroscience (NEURO)		Chang	Biological Sciences	
Salary Award		Murali	Chemical and Biomolecular Engineering (CHBE)	Young-Hui Ravi	Kane	Chemical and Biomolecular Engineering	Investigating Asymmetrical Adaptation to Reduced Gravity Design of "Universal" Influenza Vaccinae by Rivalent Astigonic Suppression
Salary Award		Myers	Music Technology (MUSIC)	Grace	Leslie	Music	Design of "Universal" Influenza Vaccines by Bivalent Antigenic Suppression Mild Cognitive Impairment Empowerment Through Music Technology
			Biomedical Engineering (BMED)				
alary Award		Nguyen	Biology (BIO)	Julia	Babensee	Biomedical Engineering	3D Co-Culture Interplay in an in vitro Breast Cancer Tumor Model
alary Award		Nguyen	Neuroscience (NEURO)	Stefan Michael	France Borich	Chemistry and Biochemistry Biomedical Engineering	Synthesis of Substituted Indoles from α-diazo-β-keto Esters and Enol Ethers
Salary Award		Noone Patel					Neuromodulatory Mechanisms Underlying Cortical Oscillatory Activity During Post PAS Activity
Salary Award			Aerospace Engineering (AE)	Glenn	Lightsey	Aerospace Engineering	Development of an Additively Manufactured, Green Monopropellant Thruster for the NASA JPL Lunar Flashlight CubeSat Mission
alary Award		Peloquin	Mechanical Engineering (ME)	Gregory	Sawicki	Mechanical Engineering	Development of a Passive, Durable, Low-Profile Ankle Exoskeleton
alary Award		Petrie	Materials Science and Engineering (MSE)	Mark Seung Woo	Losego	Materials Science and Engineering	Predicting Properties of ALD Films through Machine Learning Aluminum Ovida Composite and Carbon Nanotuba Pacad Riffunctional Sanarators for High Parformance Lithium Sulfur Battaries
Salary Award		Pu	Mechanical Engineering (ME)		Lee	Mechanical Engineering	Aluminum Oxide Composite and Carbon Nanotube-Based Bifunctional Separators for High-Performance Lithium Sulfur Batteries
alary Award		Qin Doiondron	Computational Media (CM)	Joycelyn	Wilson	Literature, Media, & Communication	Increasing Efficacy of Education Technology through Hip-Hop-Based Pedagogical Affordances
Salary Award		Rajendran	Biomedical Engineering (BMED)	Shu	Jia	Biomedical Engineering	Enhancing Temporal Resolution of Optical Microscopy Through Dimensional Reduction
Salary Award		Raman	Electrical Engineering (EE)	Matthieu	Bloch	Electrical and Computer Engineering	Quantum Steganographic Capacity of Lossy Bosonic Channels
alary Award		Regalado	Materials Science and Engineering (MSE)	Jenny	McGuire	Earth and Atmospheric Sciences	Incorporating Ecological Values in the Design of Protected Areas: A Holistic Analysis of Protected Area Categories in the United
alary Award		Selva	Biomedical Engineering (BMED)	Shuichi	Takayama	Biomedical Engineering	Modeling the Effect of Pulmonary Edema on the Airways in a Microfluidic Device
Salary Award			Aerospace Engineering (AE)	Mitchell	Walker	Aerospace Engineering	Fabrication of a Field Emitting CNT-based Cathode as a Charge Neutralization Mechanism for EP Spacecraft in a Plasma Environment
Salary Award		Shaik	Aerospace Engineering (AE)	Claudio	Di Leo	Aerospace Engineering	Mechanical characterization of the deformation-diffusion behavior of swellable elastomers
alary Award		Shaikh	Computer Science (CS)	Duen Horng (Polo)		Computational Science & Engineering	NMTDebug: An Interactive Tool For Visualizing And Debugging Translation Models Circular Both Reflectors Design for a Trahaglasty Demonstration of Windows Rever Transfer Using a Fully Transport Restaurant
alary Award		Shi	Electrical Engineering (EE)	Gregory	Durgin	Electrical and Computer Engineering	Circular Patch Reflectarray Design for a Technology Demonstration of Wireless Power Transfer Using a Fully Transparent Rectenna
Salary Award		Sim	Biomedical Engineering (BMED)	Gabriel	Kwong	Biomedical Engineering	Genetically Engineering Cells to Model Immune Resistance During Cancer Immunotherapy
Salary Award		Smith	Biochemistry (BCHM)	Stanislav	Emelianov	Electrical and Computer Engineering	A New Model of Atherosclerosis in Mice
alary Award		Steppe	Chemical and Biomolecular Engineering (CHBE)	Mark	Styczynski	Chemical and Biomolecular Engineering	Development of a Cell-Free Zinc Biosensor Quantified Utilizing a Personal Glucose Monitor
Salary Award	Sophia	Sukkestad	Biology (BIO)	Frank	Rosenzweig	Biological Sciences	Competition Assays in Laboratory-Evolved Multicellular and Wild-Type Unicellular Chlamydomonas reinhardtii
alary Award		Sun	Materials Science and Engineering (MSE)	Mark	Losego	Materials Science and Engineering	Investigation of Crystallization in Zirconium Dioxide Thin Films Grown via Atomic Layer Deposition (ALD)
alary Award		Terrell	Chemical and Biomolecular Engineering (CHBE)	Natalie	Stingelin	Materials Science and Engineering	Investigating Interpenetrating Polymer Network Hydrogels for Organic Bioelectronics
Salary Award		Thompson	Aerospace Engineering (AE)	Mitchell	Walker	Aerospace Engineering	Plasma Actuators and Flow Separation on Airfoils
alary Award		Tobin	Chemical and Biomolecular Engineering (CHBE)	Paul	Kohl	Chemical and Biomolecular Engineering	Continuous flow synthesis of o-phthalaldehyde copolymers for transient devices.
Salary Award	Stephen	Tong	Computer Science (CS)	Taesoo	Kim	Computer Science	Machine Learning-Assisted Structure-Aware Fuzzing
alary Award		Torp	Biology (BIO)	Pamela	Peralta-Yahya	Chemistry and Biochemistry	A Machine Learning Approach to Efficient Olfactory Receptor Deorphanization
alary Award		Tyner	Chemical and Biomolecular Engineering (CHBE)	Nian	Liu	Chemical and Biomolecular Engineering	Catalytic Electrochemical Reduction of Liquid CO2 in a CO2-Methanol Medium with Varied Inorganic Salts
alary Award		Weng	Mechanical Engineering (ME)	Ye	Zhao	Mechanical Engineering	Athena Humanoid Upper Body Robot Design and Kinematics-based Motion Planning
alary Award		Wester	Biomedical Engineering (BMED)	Cheng	Zhu	Biomedical Engineering	Costimulatory Streptavidin Beads for Understanding Immune Synapse Signaling and Function
alary Award 1		White	Biomedical Engineering (BMED)	Dr. Cassie	Mitchell	Biomedical Engineering	Predictive medicine to improve bacterial infection prophylaxis therapy in pediatric acute leukemias
alary Award		Yamamoto	Biomedical Engineering (BMED)	Jaydev	Desai	Biomedical Engineering	Computer visualization of pediatric phantom brain model and clinical testing of endoscopic neurosurgical robot
alary Award		York	Biomedical Engineering (BMED)	Edward	Botchwey	Biomedical Engineering	Increasing Exosome Production by Mesenchymal Stem Cells in Bacterial Sphingomyelinase-Conjugated PEG-MAL Hydrogels
alary Award	Nadia	Zaragoza	Materials Science and Engineering (MSE)	Blair	Brettmann	Materials Science and Engineering	PAA-PEI complex coacervation for radioactive material capture
alary Award		Zhan	Biology (BIO)	Ravi	Kane	Chemical and Biomolecular Engineering	Creating a Surrogate Wnt5a Agonist from Anti-ROR2 and Anti-Frizzled Antibody Fragments
alary Award	Zhiyuan	Zhang	Mechanical Engineering (ME)	Panagiotis	Tsiotras	Aerospace Engineering	Small scale autonomous vehicle
alary / tward		Zhang	Materials Science and Engineering (MSE)	Paul	Russo		Study of Hydrophobin Membrane Mechanics for Application in Micro-robotics

A1 T Ei NI	T + NT	Major	Manta - Pinat Nama	Manta Tant Mana	M. A. D. A. A.	Project Title
Award Type First Name	Last Name		Mentor First Name			
Salary Award Ziyang	Zhang	Mechanical Engineering (ME)	Ye	Zhao	Mechanical Engineering	Model and Control of Robust Contact-Rich Manipulation Skills
Salary Award Qingyang	Zhao	Biomedical Engineering (BMED)		Kwong	Biomedical Engineering	Harnessing T Cell Immunity for Thwarting Influenza
Travel Award Adriana	Amyette	Computer Science (CS)	Hyesoon	Kim	Computer Science	Towards a General Purpose Cognitive Drone
Travel Award Adrianna	Bernardo	Biomedical Engineering (BMED)	Kali	Morgan	Biomedical Engineering	ePortfolios as a "meta-HIP": Evidence from a summer study abroad experience
Travel Award Gaurav	Byagathvalli	Industrial Engineering (IE)	Saad	Bhamla	Chemical and Biomolecular Engineering	Leveraging the physics of a barbecue lighter to genetically transform living organisms
Travel Award Kathryn	Earles	Public Policy (PUBP)	Omar	Asensio	Public Policy	Behavioral Incentives for Children and Their Parents to Reduce Energy Consumption
Travel Award Tyrus	Evans	Aerospace Engineering (AE)	Ellen	Mazumdar	Mechanical Engineering	Digital Phase Holography for Numerical Shock-wave Distortion Cancellation
Travel Award Biya	Haile	Mechanical Engineering (ME)	Paul	Joseph	Electrical and Computer Engineering	Three-dimensional Printing of Carbon Nanostructures
Travel Award Patrick	Heritier-Robbins	Environmental Engineering (ENVE)	Kostas	Konstantinidis	Civil and Environmental Engineering	Crude Oil Disturbance Selects for Generalists, not Specialists, in a Beach Sand Microbial Community
Travel Award Kyle	Jiang	Mechanical Engineering (ME)	Rosario	Gerhardt	Materials Science and Engineering	Inkjet-Printed Carbon Nanotube Depositions for Electrochemical Supercapacitor Electrodes
Travel Award Sam	Jijina	Computer Science (CS)	Hyesoon	Kim	Computer Science	Towards a General Purpose Cognitive Drone
Travel Award Saiharshith	Kilaru	Computer Engineering (CMPE)	Andrew	Peterson	Electrical and Computer Engineering	An Investigation of Micromotor Technology Enabling Mechanically Reconfigurable Reflectarrays
Travel Award Kyung II	Kim	Chemical and Biomolecular Engineering (CHBE)	Seung Soon	Jang	Materials Science and Engineering	Water and Carbon Dioxide in Hydrated Hyperbranched Polyethylenimine Membrane Using MD Simulation and Density Functional Theory
Travel Award Sarah	Lowry	Environmental Engineering (ENVE)	Joe	Brown	Civil and Environmental Engineering	Microbial Water Quality in Intermittent versus Continuous Water Supply in Nagpur, India
Travel Award Chandler	Mason	Computer Engineering (CMPE)	Joshua	Roper	Electrical and Computer Engineering	Project PhoneixEye
Travel Award Catherine	Moore	Public Policy (PUBP)	Omar	Asensio	Public Policy	Behavioral Incentives on Children and Their Parents to Reduce Energy Consumption
Travel Award Andrew	Pan	Biomedical Engineering (BMED)	Todd	Sulchek	Mechanical Engineering	Janus micromotors improve the catalytic efficiency of immobilized enzymes
Travel Award Cassidy	Tobin	Chemical and Biomolecular Engineering (CHBE)	Paul	Kohl	Chemical and Biomolecular Engineering	Optimizing the Performance of Polyaldehydes as Dry-Developed Photoresists
Travel Award Robert	Turko	Computer Science (CS)	Duen (Polo)	Chau	Computational Science & Engineering	CNN 101: Interactive Visual Learning for Convolutional Neural Networks
Travel Award Vaibhav	Vasudevan	Materials Science and Engineering (MSE)	Seung	Jang	Materials Science and Engineering	DNA Adsorption on Graphene: DFT Modeling Approach
Travel Award Samuel	Weiss-Cowie	Applied Languages and Intercultural Studies (ALIS)	Seung-Eun	Chang	Modern Languages	Hyper-articulation in Korean glides by heritage language learners
Travel Award Sophia	Wiesenfeld	Biology (BIO)	Brian	Hammer	Biological Sciences	CRP mediates commensal Escherichia coli resistance against pandemic Vibrio cholerae Type VI Secretion System attack
Travel Award Julia	Woodall	Biomedical Engineering (BMED)	Allyson	Tant	Biomedical Engineering	Leveraging computational fluid dynamic modeling to elucidate the mechanical artifacts of simulated microgravity
Travel Award Nadia	Zaragoza	Materials Science and Engineering (MSE)	Blair	Brettmann	Chemical and Biomolecular Engineering	Increasing sustainability of papermaking using polyelectrolyte complex coacervates