Award Type	First Name	Last Name	Major	Mentor First Name	Mentor Last Name	Mentor Department	Project Title
Student Salary	William	Agnew	Discrete Mathematics (DMTH)	Ada	Gavrilovska	Computer Science	Preserving RAM Data Through Power Loss
Student Salary	Aaron	Aizenman	Physics (PHYS)	Alberto	Fernandez De Las Nieves	Physics	Saffman-Taylor instability (viscous fingering) induced by an electric field in low surface tension toroidal droplets
Student Salary	Tim	Arleo	Mechanical Engineering (ME)	David	Ku	Mechanical Engineering	Comparing medical device material thrombogenicity based on shear rate
Student Salary	Sofia	Awan	Industrial Engineering (IE)	Anthony	Giarrusso	City & Regional Planning	Prevention and Treatment of Disease Outbreaks: A Geospatial Approach
Student Salary	Sarah	Basta	Industrial Engineering (IE)	David	Hu	Mechanical Engineering	Biomechanics of Small Intestinal Movement
Student Salary	Arjun	Bir	Civil Engineering (CE)	Joe	Brown	Civil and Environmental Engineering	Novel Water Purification and Testing Methods for the Developing World
Student Salary	Aaron	Blacker	Aerospace Engineering (AE)	Mitchell	Walker	Aerospace Engineering	Thermal Modeling of Vacuum Test Facility for Long-Duration Hall Effect Thruster Testing
Student Salary	Anthony	Boever	Earth and Atmospheric Sciences (EAS)	Ellery	Ingall	Earth and Atmospheric Sciences	Investigating the Iron Chemistry of Atmospheric Dust Particles
Student Salary	Harleen	Brar	Aerospace Engineering (AE)	Evangelos	Theodorou	Aerospace Engineering	Reinforcement Learning for Neuromodulation
Student Salary	John	Britti	Computational Media (CM)	Joshua	Hussey	Literature, Media, & Communication	Godot's Bot
Student Salary	Savita	Chapman	Biomedical Engineering (BMED)	Mostafa	El-Sayed	Chemistry and Biochemistry	Molecular Understanding of Bio-nano Interaction by Studying the Intracellular Trafficking of Gold Nanoparticles
Student Salary	Alex	Chen	Chemical and Biomolecular Engineering (CHBE)	Michael	Borich	Biomedical Engineering	Informed Stimulation During Paired Associative Stimulation to Improve Rehabilitative Results
Student Salary	Hunter	Christensen	Mechanical Engineering (ME)	Seung-Kyum	Choi	Mechanical Engineering	Optimal Design of 2-Dimensional Movement Using Shape Memory Alloy Wire
Student Salary	Lena	Chu	Biology (BIO)	Joel	Kostka	Biology	Biodegradation potential of marine bacteria isolated from sites of major oil spills and oil exploration areas
Student Salary	Oliver	Daliet	Biomedical Engineering (BMED)	Trisha	Kesar	Applied Physiology	Changes in Inter-Joint Coordination of Post-Stroke Gait After Gait Retraining
Student Salary	Aditya	Datye	Mechanical Engineering (ME)	Levi	Wood	Mechanical Engineering	A Microfluidic Model of Mechanisms Underlying Alzheimer's Disease Resiliency
Student Salary	Fernando	de Caralt	Mechanical Engineering (ME)	Frank	Hammond	Mechanical Engineering	Soft Sensors for Coordination of Robot-Assisted Grasping
Student Salary	Hardika	Dhir	Biomedical Engineering (BMED)	Yury	Chernoff	Biology	Amyloid propagation by U1 small nuclear ribonucleoprotein 70 kDa in a yeast model
Student Salary	Akash	Doshi	Chemistry (CHEM)	Stefan	France	Chemistry and Biochemistry	A Dehydrative Cycloisomerization Approach to Fused Cycloheptene Formation
Student Salary	Dezhi	Fang	Computer Science (CS)	Duen Horng	Chau	Computational Science & Engineering	ARGO: Large Scale Visualization of Graphs
Student Salary	Sheena	Ganju	Industrial Engineering (IE)	Baratunde	Cola	Mechanical Engineering	Electrospinning Recycled Polycarbonate for Potential Thermal Properties
Student Salary	Venu	Ganti	Electrical Engineering (EE)	Omer	Inan	Electrical and Computer Engineering	Bioacoustical Modal Analysis for Decoding Intent in Wearable Robotics
Student Salary	Lauren	Gardner	Civil Engineering (CE)	Yi-Chang	Tsai	Civil and Environmental Engineering	Determining Macro-Texture Settings Using High-Speed 3D Technology for Achieving the Optimal Friction Correlation
Student Salary	Mark	Garren	Chemical and Biomolecular Engineering (CHBE)	M.G.	Finn	Chemistry and Biochemistry	Application of thiabicyclo[3.3.1]nonane backbone materials to siRNA transfection
Student Salary	Christine	Gebara	Aerospace Engineering (AE)	Julian	Rimoli	Aerospace Engineering	High Fidelity Models of Deployable Tensegrity Structures for Mars Lander Applications
Student Salary	Sameer	Gir	Mechanical Engineering (ME)	Tequila	Harris	Mechanical Engineering	Studies in the Manufacturability of Filtration Membranes for Clean Water
Student Salary	Shawn	Gregory	Materials Science and Engineering (MSE)	Mark	Losego	Materials Science and Engineering	Residual Antimicrobial Solution for Textiles
Student Salary	Avani	Gupta	Aerospace Engineering (AE)	Marilyn	Smith	Aerospace Engineering	Modeling Unsteady and Non-Linear Aerodynamics of Bluff Bodies
Student Salary	Kellie	Heom	Chemical and Biomolecular Engineering (CHBE)	MG	Finn	Chemistry and Biochemistry	Enzyme evolution for assisting copper (I) catalyzed alkyne-azide cycloaddition reaction in vivo
Student Salary	David	Howard	Industrial Design (ID)	James	Budd	Industrial Design	New Tools to Support Research & Learning Related to Interactive Product Development for Designers
Student Salary	Ngoc Yen Chi	Huynh	Applied Mathematics (MATH)	Christine	Heitsch	Mathematics	Enumeration of Meanders of order n
Student Salary	Lourenço	Jara de Carvalho	Aerospace Engineering (AE)	Marcus	Holzinger	Aerospace Engineering	GT-SORT Automation and Scripting
Student Salary	Ann	Johnson	Biology (BIO)	Joseph	Brown	Civil and Environmental Engineering	Innovative Method for Assessing Child Malnutrition using X-box Kinect Technology
Student Salary	Ji Hwan	Jung	Mechanical Engineering (ME)	Frank	Hammond	Mechanical Engineering	Soft Reconfigurable EMG Interface for Investigation of Human Neural Pathway Adaptation to Robotic Augmentation Devices
Student Salary	Kamillah	Kassam	Biochemistry (BCHM)	Mostafa	El-Sayed	Chemistry and Biochemistry	Studying the Effect of Different Sizes and Shapes of Gold Nanoparticles on Cancer Cells Using Surface Enhanced Raman Spectroscop
Student Salary	Yeong-Won	Kim	Chemical and Biomolecular Engineering (CHBE)	Mark	Prausnitz	Chemical and Biomolecular Engineering	Determining Key Parameters for Clog-Free Injection of Particle Suspensions through Microneedles
Student Salary	Youngmin	Kim	Biology (BIO)	Chong	Shin	Biology	Hepatocytes Regeneration in Sustained Liver Fibrosis Model in Zebrafish
Student Salary	Christopher	Lee	Biology (BIO)	Young-sup	Yoon	Biomedical Engineering	Biomimetic Nanofibrous Scaffold Used to Bolster Vascularization of Ischemic Hearts by Increasing Cell Survival and Engraftment
Student Salary	Matthew	Lee	Electrical Engineering (EE)	YongTae	Kim	Mechanical Engineering	Signal Processing of Voltage Data
Student Salary	William	Li	Biomedical Engineering (BMED)	Wilbur	Lam	Biomedical Engineering	Characterizing the Efficiency of Lentiviral Transduction in Microfluidics with Perfusion
Student Salary	Heng	Li	Computer Science (CS)	James	Rehg	Interactive Computing	Appearance-Based Gaze Upon Object Estimation
Student Salary	Erick	Lin	Computer Science (CS)	Byron	Boots	Interactive Computing	Spectral Methods for Learning Quantum Stochastic Models
Student Salary	Kathryn	Martin	Biomedical Engineering (BMED)	Julia	Kubanek	Biology	The Use of 1H-NMR for the Identification of Urinary Biomarkers for Early Stage Epithelial Ovarian Cancer
Student Salary	Elisa	Mercando	Biology (BIO)	Joel	Kostka	Biology	The Effect of Nutrient Availability on the Microbial Degradation of Petroleum Hydrocarbons in Coastal Seawater
Student Salary	Arsh	Momin	Computer Science (CS)	Michael	Borich	Biomedical Engineering	TMS Attention Study
Student Salary	Sean	Monahan	Industrial Engineering (IE)	Nicoleta	Serban	Industrial and Systems Engineering	Estimating Unmet Need for Mental Health Services in Georgia
Student Salary	Kate	Napier	Physics (PHYS)	Deirdre	Shoemaker	Physics	Model Selection in Gravitational Wave Astronomy
Student Salary	James	Padgett	Nuclear and Radiological Engineering (NRE)	Marta	Hatzell	Mechanical Engineering	SPATIALLY DECOUPLED ELECTROLYSIS FOR HYDROGEN PRODUCTION
Student Salary	Jonathan	Pang	Chemical and Biomolecular Engineering (CHBE)	Ajit	Yoganathan	Biomedical Engineering	Measurement of Wall Shear Stress in Patient Specific Aorta Models
Student Salary	Dhara	Patel	Biomedical Engineering (BMED)	Craig	Forest	Mechanical Engineering	Optimization of Detergent Solution for Patch-Clamp Pipette Cleaning
Student Salary	Jonathan	Payne	Chemical and Biomolecular Engineering (CHBE)	Hailong	Chen	Mechanical Engineering	Mechanochemical Synthesis of Metastable Phases as Solid State Electrolytes for Lithium Ion Batteries
Student Salary	Jonathan	Peraza	Materials Science and Engineering (MSE)	Valeria	Milam	Materials Science and Engineering	Identification of Conformation-Specific DNA Aptamers for Dynamic Proteins
Student Salary	Noah	Pilz	Computer Engineering (CMPE)	Chaowen	Ting	Music	"Without Words": Immersing Audiences through Lighting Manipulation
Student Salary	Samantak	Ray	Electrical Engineering (EE)	Young Mi	Choi	Industrial Design	Usability preferentials based on product reference models

Student Salary	Christopher	Schenck	Biomedical Engineering (BMED)	Trisha	Kesar	Applied Physiology	Short-Term Effects of Real-Time Ankle Moment Biofeedback on Gait in Post-Stroke Individuals
Student Salary	Jieun	Seong	Discrete Mathematics (DMTH)	Raghuram	Pucha	Mechanical Engineering	Defining multiple percolation paths through analytical models for high conductivity applications of CNT composites
Student Salary	Karan	Shah	Computer Science and Physics double major	A. Nepomuk	Otte	Physics	Finding optimal configurations of IACT arrays using Monte Carlo simulations
Student Salary	Zhengyuan	Shen	Chemical and Biomolecular Engineering (CHBE)	Christopher	Jones	Chemical and Biomolecular Engineering	MOF-Derived Heterogeneous Catalysts for α-β Unsaturated Aldehyde Selective Hydrogenation
Student Salary	Andrew	Short	Materials Science and Engineering (MSE)	Mark	Losego	Materials Science and Engineering	Effective, Environmentally-Friendly Sorbent Materials for Oil Spill Remediation
Student Salary	Anna	Smart	Biomedical Engineering (BMED)	Edward	Botchwey	Biomedical Engineering	Assessing the Effects of FTY720 on Volumetric Muscle Loss Healing Through Biochemical Assays
Student Salary	Alfonso	Soldevilla	Industrial Design (ID)	James	Budd	Industrial Design	Development of a Crowd Source Extension of the SEED System to Support Sharing of Part Data
Student Salary	Liangyu	Tao	Biomedical Engineering (BMED)	Robert	Butera	Biomedical Engineering	Network Model of White Matter Tracts in Patients with Treatment Resistant Depression
Student Salary	Aditya	Vishwanath	Computer Science (CS)	Neha	Kumar	Interactive Computing	Designing for an Online Learning Community
Student Salary	Michael	Wang	Computer Science (CS)	Craig	Forest	Mechanical Engineering	Repeated Membrane Potential Fluctuations in the Hippocampus of Awake, Behaving Mice
Student Salary	Jonah	Weil	Chemical and Biomolecular Engineering (CHBE)	Brandon	Dixon	Biomedical Engineering	Novel In Vitro Culture Platform for Brugia Malayi Drug Screens
Student Salary	Erin	Winger	Chemical and Biomolecular Engineering (CHBE)	Mark	Prausnitz	Chemical and Biomolecular Engineering	Photoresponsive Drug Delivery in the Eye
Student Salary	Seong Ho	Yeon	Electrical Engineering (EE)	Stephen	DeWeerth	Electrical and Computer Engineering	A Wearable Transcutaneous Electrical Nerve Stimulation System to Generate a Tactile Sensation on the Foot for Diabetic Periphera
Student Salary	Madison	Young	Biology (BIO)	Jeannette	Yen	Biology	Kinematic analysis of wobbling: A test of efficient swimming behavior in the marine trail-tracking copepod species, Temora longi
Student Salary	Nadiya	Zafar	Biochemistry (BCHM)	Robert	Guldberg	Mechanical Engineering	Osteoarthritis
Student Salary	Bei	Zhang	Earth and Atmospheric Sciences (EAS)	Yuanzhi	Tang	Earth and Atmospheric Sciences	Developing Hydrothermal Carbonization for Phosphorous Immobilization in Animal Manures: Implications for Sustainable Management
Student Salary	Lubna	Zubair	Aerospace Engineering (AE)	Marcus	Holzinger	Aerospace Engineering	Command and Data Handling Integration for a CubeSat
Travel	Joshua	Barnett	Physics (PHYS)	Roman	Grigoriev	Physics	Streamwise asymptotics of spatially localized solutions in plane Pouseuille flow
Travel	Yasmeen	Belhseine	Chemical and Biomolecular Engineering (CHBE)	Chukwuemeka	Okolie	Chemical and Biomolecular Engineering	Direct Catalytic Coupling and Selective Oxidation Methane to Ethanol at Low Temperature
Travel	Sruti	Bheri	Biomedical Engineering (BMED)	C. Ross	Ethier	Biomedical Engineering	The Effects of Amyloid Beta and Mechanical Stretch on Astrocyte Activation
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	Arnold	Eng	Chemical and Biomolecular Engineering (CHBE)	Shannon	Yee	Mechanical Engineering	Synthesis and Optimization of Poly(nickel-ethylenetetrathiolate) for High Performance n-Type Thermoelectric Polymers
Travel	Cheng Hann	Gan	Computer Science (CS)	Mark	Riedl	Interactive Computing	Procedural Level Generation for Mixed Reality Games
Travel	Robert	Guthrie	Computer Science (CS)	Jacob	Eisenstein	Computer Science	Morphological Priors for Probabilistic Neural Word Embeddings
Travel	Andrew	Hong	Mechanical Engineering (ME)	Levi	Wood	Mechanical Engineering	TNF-Alpha And VEGF Modulate Oligomerization Of Amyloid Beta By Neurovascular Cells
Travel	Samantha	Houser	Biomedical Engineering (BMED)	Ajit	Yoganathan	Biomedical Engineering	The Fluid Mechanics of Aortic Regurgitation- A Simplified Experiment
Travel	Jiwoong	Kang	Chemical and Biomolecular Engineering (CHBE)	Seung Soon	Jang	Materials Science and Engineering	First-Principles Density Functional Theory Modeling Assisted Understanding on the Redox Properties of Boron doped Corannulene
Travel	Jacqueline	Larouche	Biomedical Engineering (BMED)	Thomas	Barker	Biomedical Engineering	Effect of Extracellular Matrix Strain in Triggering Myofibroblastic Differentiation
Travel	Blake	Lash	Biomedical Engineering (BMED)	Krishnendu	Roy	Biomedical Engineering	Enhancing Chitosan Nanoparticle Delivery to Lung Epithelial Cells
Travel	Yun-Hsuan (Stellina)	Lee	Neuroscience and Behavioral Biology	Hang	Lu	Chemical and Biomolecular Engineering	Efficient and Automated Neuronal Tracking on Global Brain Imaging with Point Registration.
Travel	Kane	Patel	Biology (BIO)	Joseph	Lachance	Biological Sciences	Ascertainment bias in predicting genetic disease risks.
Travel	Kiran	Rampersad	Industrial Engineering (IE)	Peter	Fontaine	Literature, Media, & Communication	Cross Disciplinary Collaboration in Constructing a Communication Center: Partnerships & Possibilities
Travel	mindy	ross	Biochemistry (BCHM)	Brandon	Dixon	Mechanical Engineering	Quantification of Lymphatic Permeability via Near-Infrared Imaging
Travel	Hailee	Scelsi	Biochemistry (BCHM)	Cassie	Mitchell	Biomedical Engineering	High Oxidant Concentration as an Agent of Cell Death
Travel	Christopher	Schenck	Biomedical Engineering (BMED)	Trisha	Kesar	Biological Sciences	Effects of unilateral real-time gait biofeedback on propulsive forces during walking
Travel	Michael	Spadaro	Mechanical Engineering (ME)	Alexander	Alexeev	Mechanical Engineering	Swimming performance of biomimetic trapezoidal elastic fins
Travel	Elizabeth	Stayduhar	Biomedical Engineering (BMED)	Ajit	Yoganathan	Biomedical Engineering	Lumped Parameter Modeling of the Left Ventricle to Study Energy Loss during Aortic Regurgitation
Travel	Elizabeth	Taylor	Discrete Mathematics (DMTH)	Tom	Trotter	Mathematics	The Graph of Critical Pairs of a Crown
Travel	Richard	Vannatta	Biomedical Engineering (BMED)	Ross	Ethier	Biomedical Engineering	Replicating Trabecular Meshwork Cellularity Changes in Glaucoma: A Modified in vitro Model
Travel	Angela	Vujic	Computer Science (CS)	Melody	Jackson	Interactive Computing	MoodLens: Towards Improving Nonverbal Emotional Expression with an In-lens Fiber Optic Display
Travel	Yuntong	Zhu	Materials Science and Engineering (MSE)	Seung Soon	Jang	Materials Science and Engineering	Functional Theory Modeling of Boron-Doped Graphene Flakes for Electrochemical Storage Applications