

| Award Type | First Name | Last Name | Major | Mentor First Name | Mentor Last Name | Mentor Department | Project Title |
|-------------------------|----------------|-------------------|--|-------------------|------------------|---------------------------------------|--|
| Salary Award | Philip | Aden | Biomedical Engineering (BMED) | Simon | Sponberg | Physics | An Examination of the Effect of Terrain Roughness on the Centralization of Control in Dynamic Systems |
| Interdisciplinary Award | Yahia | Ali | Biomedical Engineering (BMED) | Chethan | Pandarinath | Biomedical Engineering | Comparative Analysis of Population-Level Dynamics in Different Neural Systems |
| Salary Award | Claire | Anderson | Environmental Engineering (ENVE) | Joseph | Brown | Civil and Environmental Engineering | A study of stool samples with diarrheal characteristics in relation to enteric infections |
| Salary Award | Mathilda | Avirett-Mackenzie | Physics (PHYS) | David | Ballantyne | Physics | Modeling Active Galaxy Evolution |
| Salary Award | Darian | Bender | Physics (PHYS) | Martin | Mourigal | Physics | Novel Materials to Explore the Quantum Properties of Frustrated Magnets |
| Salary Award | Anthony | Boever | Earth and Atmospheric Sciences (EAS) | Joel | Kostka | Earth and Atmospheric Sciences | Characterization of Microbial Community Structure Dynamics of Barrel-aged Sour Ales through Genomics- and Metabolomics-based App |
| Salary Award | Dmitry | Bondarev | Chemical and Biomolecular Engineering (CHBE) | Gleb | Yushin | Materials Science and Engineering | Melt-infiltration of solid-state electrolytes into aluminum oxide nanowire separator membranes |
| Salary Award | Chelsea | Calhoun | Mechanical Engineering (ME) | Richard | Simmons | Mechanical Engineering | Investigation and Optimization of Multiple Performance Objectives Using Small Scale, Low-cost, Remotely Controlled Vehicles |
| Salary Award | Cassiopeia | Cartwright | Materials Science and Engineering (MSE) | Josh | Kacher | Materials Science and Engineering | The Effects of Processing Conditions on Plastic Zones in Aluminum Alloys |
| Salary Award | Mia | Colbert | Computer Engineering (CMPE) | Madhavan | Swaminathan | Electrical and Computer Engineering | Designing an Antennae Array for Wireless Power Transfer with Bayesian Optimization |
| Salary Award | Chianne | Connelly | Industrial Design (ID) | Thomas | Orlanda | Chemistry and Biochemistry | Using the Sputtering Yields of Ice Water to Predict the Expected Atmosphere of Europa |
| Salary Award | Kaylyn | Crawford | Biomedical Engineering (BMED) | Ajit | Yoganathan | Biomedical Engineering | In vitro assessment of transcatheter aortic valve migration risk via estimation of pull-out and hemodynamic force |
| Salary Award | Kayla | Duarte | Earth and Atmospheric Sciences (EAS) | Britney | Schmidt | Earth and Atmospheric Sciences | Determining Icy Subsurface Properties of Ceres through Intermediate Landslides |
| Interdisciplinary Award | Robert | Garbee | Mechanical Engineering (ME) | Jonathan | Rogers | Mechanical Engineering | Interceptor Aircraft for Drone Capture and Recovery |
| Salary Award | Nina | Ghosn | Biomedical Engineering (BMED) | Lena | Ting | Biomedical Engineering | Beta Oscillatory Activity in Involuntary Balance Correction |
| Salary Award | Nazli | Goller | Electrical Engineering (EE) | Omer | Inan | Electrical and Computer Engineering | Wearable Sensing of Joint Acoustical Emissions of Non-Invasive Joint Health Assessment |
| Salary Award | Raphael | Gontijo Lopes | Computer Science (CS) | Irfan | Essa | Interactive Computing | Neural Network Knowledge Distillation with No Training Data |
| Salary Award | Daniel | Gurevich | Physics (PHYS) | Flavio | Fenton | Physics | Topological Analysis of Fibrillation in Mammalian Atria |
| Salary Award | Baris | Gurses | Electrical Engineering (EE) | Lukas | Graber | Electrical and Computer Engineering | Development and Optimization of an Impulse Current Generator to Test the Electrical Contacts of Ultra-Fast Disconnect Switches |
| Salary Award | Puneeth | Guruprasad | Chemical and Biomolecular Engineering (CHBE) | Wilbur | Lam | Biomedical Engineering | In-Vitro Microfluidic Devices to Assess Deformability of Sickle Cells on a High-Throughput Basis |
| Salary Award | Elizabeth | Halloran | Aerospace Engineering (AE) | Lakshmi | Sankar | Aerospace Engineering | Physics Based Modeling of Ice Accretion |
| Salary Award | Michael | Hu | Biomedical Engineering (BMED) | Hu | David | Mechanical Engineering | Fly Larvae Collectively Sense Food |
| Salary Award | Jonathan | Jeffrey | Electrical Engineering (EE) | Azad | Naeemi | Electrical and Computer Engineering | Design of Non-Boolean All-Spin Logic Devices for Fast Machine Learning |
| Salary Award | Ayush | Jha | Aerospace Engineering (AE) | Narayanan | Komerath | Aerospace Engineering | Effects of Ducting on the Acoustic Signature of a UAV |
| Salary Award | Ann | Johnson | Biology (BIO) | Joe | Brown | Civil and Environmental Engineering | Innovative Method for Assessing Child Malnutrition using X-box Kinect Technology |
| Salary Award | Kirit | Joshi | Mechanical Engineering (ME) | Matt | McDowell | Mechanical Engineering | Controlling Interfacial Properties of Solid-State Lithium Batteries Using Atomic Layer Deposition |
| Salary Award | Rebecca | Keate | Biomedical Engineering (BMED) | Jennifer | Curtis | Physics | Physical Regulation of Cell Adhesion Strength by Cell-Surface Bound Polymers |
| Interdisciplinary Award | Samuel | Kemp | Aerospace Engineering (AE) | Claudio | Di Leo | Aerospace Engineering | Interceptor Aircraft for Drone Capture and Recovery |
| Salary Award | Anagha | Krishnan | Biomedical Engineering (BMED) | Krishnendu | Roy | Biomedical Engineering | Measuring Stem Cell Factor (SCF) and C-X-C Motif Chemokine Ligand 12 (CXCL12) Expression in a Bone-Marrow-on-a-Chip Model |
| Salary Award | Preksha | Kukreja | Biomedical Engineering (BMED) | Robert | Gross | Biomedical Engineering | In vitro Characterization of C3 transferase gene therapy for neuroprotection against oxidative stress in Parkinson's Disease |
| Salary Award | Aditi | Kumar | Mechanical Engineering (ME) | Craig | Forest | Mechanical Engineering | Automated brain tissue processing for large-scale, serial section electron microscopy |
| Salary Award | Chris | Kwan | Applied Mathematics (MATH) | Eva | Lee | Industrial and Systems Engineering | Data-Driven Modeling to Improve Care for Chronic Kidney Disease (CKD) Patients |
| Salary Award | Mary Elizabeth | Lee | Mechanical Engineering (ME) | Elisabetta | Matsumoto | Physics | Classification of knitted stitches using knot theory |
| Salary Award | Kyungbin | Lee | Physics (PHYS) | Seung Woo | Lee | Mechanical Engineering | Molybdenum Disulfide-based Composite Anode for High-Performance Sodium-ion Batteries |
| Salary Award | Jiaqing | Li | Civil Engineering (CE) | Ying | Zhang | Electrical and Computer Engineering | Radar Signal Processing for Vital Signs |
| Salary Award | Zonglin | Li | Electrical Engineering (EE) | Yang | Wang | Civil and Environmental Engineering | Studies in Experimental Modal Analysis with Wireless Sensor for Structural Health Monitoring |
| Salary Award | Yu-wen | Lin | Electrical Engineering (EE) | Morris | Cohen | Electrical and Computer Engineering | Autonomous Low Frequency Radio Receiver |
| Salary Award | Blake | Lindner | Environmental Engineering (ENVE) | Kostas | Konstantinidis | Civil and Environmental Engineering | Modernizing Water Quality Surveillance Methods |
| Salary Award | Xinyi | Liu | Earth and Atmospheric Sciences (EAS) | Christopher | Reinhard | Earth and Atmospheric Sciences | Earth's Oxygen Cycle and the Evolution of Animal Life |
| Interdisciplinary Award | Sivabalan | Manivasagam | Computer Science (CS) | Christopher | Rozell | Electrical and Computer Engineering | Comparative Analysis of Population-Level Dynamics in Different Neural Systems |
| Interdisciplinary Award | Yeshwant | Manoharan | Biomedical Engineering (BMED) | Melissa | Kemp | Biomedical Engineering | Experimental Screening and Computational Analysis of DNA Aptamers for an Oxidized Protein Target |
| Salary Award | Thomas | Miller | Materials Science and Engineering (MSE) | Mark | Losego | Materials Science and Engineering | Controlling Density and Phase Assemblage in In2O3 – SnO2 Ceramics for Sputter Targets |
| Salary Award | Conner | Mount | Biochemistry (BCHM) | Andreas | Bommarius | Chemical and Biomolecular Engineering | Substrate Specificity of Leucine Amine Dehydrogenase |
| Salary Award | Aneri | Muni | Electrical Engineering (EE) | Colin | Usher | Electrical and Computer Engineering | Prediction Modelling: 3D models of chickens |
| Interdisciplinary Award | Chiagoziem | Obi | Biochemistry (BCHM) | Bridgette | Barry | Chemistry and Biochemistry | Engineering and science applied to structure-function studies of Photosystem II and its intrinsically disordered subunit, PsbO. |
| Salary Award | Srikar | Pamidukkala | Materials Science and Engineering (MSE) | Mark | Losego | Materials Science and Engineering | Investigation of Non-Rocksalt Phases in High Entropy Oxides |
| Salary Award | Andrew | Pan | Biomedical Engineering (BMED) | Todd | Sulchek | Mechanical Engineering | Assessing the Effect of Enzyme-Bound Janus Particle Velocity on Enzyme Catalysis |
| Salary Award | Dipam | Patel | Chemical and Biomolecular Engineering (CHBE) | Anant | Paravastu | Chemical and Biomolecular Engineering | Optimizing Solid-State NMR Experiments with Computational Modeling of Peptide Nanofibers |
| Interdisciplinary Award | Jonathan | Peraza | Materials Science and Engineering (MSE) | Valeria | Milam | Materials Science and Engineering | Experimental Screening and Computational Analysis of DNA Aptamers for an Oxidized Protein Target |
| Salary Award | Taylor | Poole | International Affairs and Modern Language (IAML) | Peter | Brecke | International Affairs | This Was a Job for Wonder Woman: A Historical Analysis of Socio-Technological Factors Influencing Early Societal Gender Equality |
| Salary Award | Sana | Pournaghshband | Biomedical Engineering (BMED) | David | Hu | Mechanical Engineering | Biologically Inspired Soft Robotics, An Elephant Trunk |
| Salary Award | Renee | Puvvada | Materials Science and Engineering (MSE) | Mark | Losego | Materials Science and Engineering | Addition of Antibacterial Properties to Textiles via Vapor Phase Modification |
| Salary Award | Matthew | Ritch | Chemical and Biomolecular Engineering (CHBE) | Ross | Ethier | Biomedical Engineering | Computer Assisted Quantification of Glaucoma-Induced Axonal Damage in Rat Optic Nerves |

| | | | | | | | |
|-------------------------|-----------|------------------|--|-------------|----------------|---------------------------------------|---|
| Salary Award | Cecily | Ritch | Biomedical Engineering (BMED) | Mostafa | El-Sayed | Chemistry and Biochemistry | Studying the Efficacy of Gold Nanoparticles on Combating Cancer Stem Cells |
| Salary Award | Mandy | Salmon | Chemical and Biomolecular Engineering (CHBE) | Ajit | Yoganathan | Biomedical Engineering | In-silico Assessment of the Impact of Edge-to-Edge Repair on Tricuspid Valve Regurgitation |
| Salary Award | Jose | Sanchez | Aerospace Engineering (AE) | Narayanan | Komerath | Aerospace Engineering | Forebody Vortex Control With Scalable Fast Response Stagnation Point Manipulators |
| Salary Award | Kajol | Shah | Biomedical Engineering (BMED) | Levi | Wood | Mechanical Engineering | Characterization of Microglial Immune Function in Response to Heme, Hemoglobin, and Astrocyte-secreted Immunomodulatory Factors |
| Salary Award | Jiachen | Shi | Industrial Engineering (IE) | Nagi | Gebraeel | Industrial and Systems Engineering | Sensor driven spare part management using adaptive stochastic mixed integer programming |
| Salary Award | Soham | Sinha | Chemical and Biomolecular Engineering (CHBE) | Saad | Bhamla | Chemical and Biomolecular Engineering | An Ultra Low-Cost, Smart Bone Conducting Based Hearing Aid |
| Salary Award | Madeline | Smerchansky | Biomedical Engineering (BMED) | Krishnendu | Roy | Biomedical Engineering | 3D Material Cytometry (3DMAc) : Optimizing high throughput, multiplexed analysis of biomaterial – cell systems |
| Interdisciplinary Award | Michael | Sofroniou | Biomedical Engineering (BMED) | Ingeborg | Schmidt-Krey | Biological Sciences | Engineering and science applied to structure-function studies of Photosystem II and its intrinsically disordered subunit, PsbO, |
| Salary Award | Laurel | Stefani | Materials Science and Engineering (MSE) | Valeria | Milam | Materials Science and Engineering | Identification of DNA Aptamers for Immobilized an Antimicrobial PeptideLactoferricin |
| Salary Award | Charlotte | Steinichen | Architecture (ARCH) | Benjamin | Flowers | Architecture | Using Web Data Scraping to Understand Stadia as a Part of the Urban Fabric |
| Salary Award | Punith | Upadhya | Materials Science and Engineering (MSE) | Gleb | Yushin | Materials Science and Engineering | Effects of Dopants on Li-ion Conductivities in Lithium Halide Hydroxide Solid-State Electrolytes |
| Salary Award | Xueqiao | Wang | Materials Science and Engineering (MSE) | Joshua | Kacher | Materials Science and Engineering | Fatigue Crack Initiation Mechanism in Relation to Fatigue Parameters in High Purity Al and Al Alloys |
| Salary Award | Aiman | Waris | Biology (BIO) | Christopher | Hertzog | Psychology | Mindfulness Training for Adults with Type 2 Diabetes |
| Salary Award | Ian | Watt | Materials Science and Engineering (MSE) | Meisha | Shofner | Materials Science and Engineering | Comparison of Amorphous and Semicrystalline Nylon 6,10 used in Fused Deposition Modeling |
| Salary Award | Samuel | Williams | Materials Science and Engineering (MSE) | Nazanin | Bassiri-Gharb | Mechanical Engineering | |
| Salary Award | Julia | Woodall | Biomedical Engineering (BMED) | Wilbur | Lam | Biomedical Engineering | Characterizing biophysical cues impacting the formation of schistocytes and other fragmented erythrocyte morphologies |
| Salary Award | Xiaofan | Wu | Industrial Engineering (IE) | Siva Theja | Maguluri | Industrial and Systems Engineering | Optimal Resource Allocation in Switches and Data Center Networks |
| Salary Award | Winston | Wu | Biomedical Engineering (BMED) | Todd | Sulchek | Mechanical Engineering | Fc Oriented Microparticles for the protection of Human Mesenchymal Stem Cells in Serum |
| Salary Award | Jingwei | Xie | Chemical and Biomolecular Engineering (CHBE) | Christopher | Jones | Chemical and Biomolecular Engineering | Selected upgrading reactions of biomass-derived furfural using heterogeneous aminosilica organocatalysts |
| Salary Award | Zhubo | Zhou | Chemical and Biomolecular Engineering (CHBE) | Nian | Liu | Chemical and Biomolecular Engineering | Graphene-modified Zn anode for rechargeable Zn-based batteries |
| Salary Award | Benjamin | Zusmann | Materials Science and Engineering (MSE) | Gleb | Yushin | Materials Science and Engineering | Core-Shell Copper-Carbon Nanowires for use as Advanced Conductive Additives in Li-ion Battery Anodes |
| Travel Award | Anthony | Aportela | Physics (PHYS) | Flavio | Fenton | Physics | Experimental and computational modeling of cardiac electrical propagation in bio-engineered sinoatrial node tissue. |
| Travel Award | Darian | Bender | Physics (PHYS) | Martin | Mourigal | Physics | Magnetic Properties of Triangular-Lattice Materials Li4CoTeO6 and Li4NiTeO6 |
| Travel Award | Kyle | Chesler | Biomedical Engineering (BMED) | Machelle | Pardue | Biomedical Engineering | Daily low dose L-DOPA treatment delays the onset of retinal function deficits and improves retinal vascular function in STZ rat |
| Travel Award | Adrienne | Dooley | Biomedical Engineering (BMED) | May | Wang | Biomedical Engineering | Prediction of Heart Transplant Rejection Using Histopathological Whole-Slide Imaging” |
| Travel Award | Daniel | Gurevich | Physics (PHYS) | Flavio | Fenton | Physics | Topological analysis of experimental recordings of ventricular fibrillation |
| Travel Award | Patrick | Heritier-Robbins | Environmental Engineering (ENVE) | Kostas | Konstantinidis | Civil and Environmental Engineering | Oxygen oscillation effects on microbial community activity and nitrogen metabolism in oil contaminated beachsands. |
| Travel Award | Hope | Hong | Computer Engineering (CMPE) | Gregory | Durgin | Electrical and Computer Engineering | Syndrome: Spectral Analysis for Anomaly Detection on Medical IoT and Embedded Devices |
| Travel Award | Qixuan | Hou | Discrete Mathematics (DMTH) | Enid | Steinbart | Mathematics | Towards Multilingual Social Media Information Support |
| Travel Award | Qixuan | Hou | Discrete Mathematics (DMTH) | Enid | Steinbart | Mathematics | Attempts to Achieve Scene Recognition |
| Travel Award | Gakyung | Kwon | Mechanical Engineering (ME) | Seung Soon | Jang | Materials Science and Engineering | Electrochemistry of DNA Nucleobases, Nucleosides, and Nucleotides and their Computational Analysis under Aqueous Condition |
| Travel Award | Sarah | Li | Computer Science (CS) | Mark | Guzdial | Computer Science | The Role of Gestures in Learning Computer Science |
| Travel Award | Marissa | McLaren | Mechanical Engineering (ME) | Richard | Simmons | Mechanical Engineering | Turbocharged Vehicles: Speed or Efficiency? |
| Travel Award | Keely | Mruk | Business Administration (BA) | James | Howard | Literature, Media, & Communication | Ludic Pedagogy in the Writing Center: Two Can Play at This Game |
| Travel Award | Zoha | Naqawe | Physics and Biology double major | Flavio | Fenton | Physics | Parameters That Affect Brine Shrimp Pattern Selection |
| Travel Award | Hannah | Phillips | Physics (PHYS) | Flavio | Fenton | Physics | Dynamics and chaotic properties of a spatially extended oil-candle array |
| Travel Award | Vedant | Pradeep | Chemical and Biomolecular Engineering (CHBE) | Mark | Guzdial | Computer Science | The Role of Gestures in Learning Computer Science |
| Travel Award | Renee | Puvvada | Materials Science and Engineering (MSE) | Mark | Losego | Materials Science and Engineering | Atomic Layer Deposition of Nano-Coatings on Fabrics for Antibacterial Applications |
| Travel Award | William | Scott | Computer Engineering (CMPE) | Azad | Naeemi | Electrical and Computer Engineering | Hybrid Piezoelectric-Magnetic Neurons: A Proposal for Energy-Efficient Machine Learning |
| Travel Award | Evan | Shi | Electrical Engineering (EE) | Gregory | Durgin | Electrical and Computer Engineering | Using Inkjet Printed Circuits on a Transparent Substrate for Microwave Energy Harvesting for Space Based Solar Power |
| Travel Award | Ryan | Wong | Materials Science and Engineering (MSE) | Seung Soon | Jang | Materials Science and Engineering | Computational Electrochemistry of DNA and its Structural Units: Effect of Lithium |
| Travel Award | Wenqi | Xian | Computer Science (CS) | James | Hays | Computer Science | TextureGAN: Controlling Deep Image Synthesis with Texture Patches |
| Travel Award | Ziyi | Zhou | Applied Mathematics (MATH) | Dan | Margalit | Mathematics | Mapping Class Groups, Covering Spaces, and Symplectic Matrices |