

Award Type	First Name	Last Name	Major	Mentor First Name	Mentor Last Name	Mentor Department	Project Title
Student Salary	Katarina	Adstedt	Materials Science and Engineering (MSE)	Samuel	Graham	Mechanical Engineering	Development of Biocompatible ALD Films for Potential Applications as Medical Device Barriers in Biological Systems
Student Salary	Anthony	Aportela	Physics (PHYS)	Flavio	Fenton	Physics	OPTIC FIBER SETUP FOR MEASURING CARDIAC DYNAMICS
Student Salary	Rachel	Barker	Physics (PHYS)	Simon	Sponberg	Physics	Just in time? Timing and rate encoding in the spike-resolved motor program of the hawk moth, <i>Manduca sexta</i>
Student Salary	Gerard	Bennett	Aerospace Engineering (AE)	Eric	Johnson	Aerospace Engineering	Fully Autonomous Unmanned Aerial Vehicle Object Pickup and Delivery
Student Salary	Vincent	Ceyssens	Electrical Engineering (EE)	Shyh-Chiang	Shen	Electrical and Computer Engineering	Researching the Characteristics of GaN in relation to Semiconductor Devices
Student Salary	William	Chen	Mechanical Engineering (ME)	Raghuram	Pucha	Mechanical Engineering	Structure-property interaction study in carbon nanotube composites using multiscale Models
Student Salary	Joseph	Colosimo	Physics (PHYS)	Ignacio	Taboada	Physics	Improving HAWC Detection of Low Energy Gamma Rays
Student Salary	Clara	Daniels	Electrical Engineering (EE)	Zhigang	Peng	Earth and Atmospheric Sciences	Temporal aftershock forecasting using Linear Prediction and Statistical Models
Student Salary	Sherwin	Davoud	Chemical and Biomolecular Engineering (CHBE)	Oomman	Thomas	Materials Science and Engineering	Morphological and Mechanical Characterization of Cellulose Nanowhisker Structural Scaffolds for Cardiomycyte Regeneration
Student Salary	Nica	de Nijs	Biomedical Engineering (BMED)	Robert	Guldberg	Mechanical Engineering	Localized Characterization of an In Vivo Experimental Model and Potential Treatment Method of Post-Traumatic Osteoarthritis
Student Salary	Juwon	Drake	Civil Engineering (CE)	Kari	Watkins	Civil and Environmental Engineering	Atlanta Bicycle Parking Index
Student Salary	Ashleigh	Fults	Biomedical Engineering (BMED)	Christopher	Hovorka	Biological Sciences	Development and Assessment of a Novel Heel Footwear System to Facilitate Rollover Dynamics during Gait
Student Salary	Aimee	Gerold	Biomedical Engineering (BMED)	Young	Jang	Biological Sciences	Transplantation of bioenergetics-enriched satellite cells to promote muscle regeneration in ischemic myopathy
Student Salary	Henry	Guo	Chemical and Biomolecular Engineering (CHBE)	Ravi	Kane	Chemical and Biomolecular Engineering	Multivalent Scaffold Design and Engineering
Student Salary	Priva	Gupta	Biomedical Engineering (BMED)	Ajit	Yoganathan	Biomedical Engineering	Evaluation of the Effect of Cyclic Stretch on Aortic Valve Collagen Morphology Using Second Harmonic Generation Microscopy
Student Salary	Joseph	Haines	Chemical and Biomolecular Engineering (CHBE)	David	Hu	Mechanical Engineering	Biomechanics of Cecal Contractions
Student Salary	Neil	Hardy	Physics (PHYS)	Flavio	Fenton	Physics	Improving Cardiac Stimulation Techniques and Devices
Student Salary	Taylor	Hartman	Computer Science (CS)	Ashok	Goel	Interactive Computing	Modeling and Simulation for Science Inquiry and Learning
Student Salary	Jamin	Hersberger	Mechanical Engineering (ME)	Chris	Paredis	Mechanical Engineering	Investigation of Surrogate Based Models of PSP linkages for Dual Phase Steel
Student Salary	Alan	Hoang	Biomedical Engineering (BMED)	Wilbur	Lam	Biomedical Engineering	Stabilized dry form of a rapid, disposable, point-of-care diagnostic test for anemia
Student Salary	Hope	Hong	Computer Engineering (CMPE)	Chaowen	Ting	Music	Quantification and Study of Orchestral Movement on Sensorimotor Experience and Perception of the Audience
Student Salary	Kumbit	Hwang	Applied Mathematics (MATH)	Branislav	Vidakovic	Industrial and Systems Engineering	Assessment of Regularity in Protein Mass Spectra by Wavelet-based Tools with Application in Diagnostics of Ovarian Cancer
Student Salary	Paras	Jain	Computer Science (CS)	Duen Horg	Chau	Computational Science & Engineering	Streaming anomaly detection from power-generating assets
Student Salary	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
Student Salary	Samuel	Kemp	Aerospace Engineering (AE)	Claudio	Di Leo	Aerospace Engineering	Mechanical properties of carbon fiber composites manufactured using sacrificial 3D printed tooling.
Student Salary	Nicole	Kennard	Materials Science and Engineering (MSE)	Jeanette	Yen	Biological Sciences	Sustainable Aquaponic Growing Systems for use in Urban Areas
Student Salary	Jun Ki	Kim	Materials Science and Engineering (MSE)	Dong	Qin	Materials Science and Engineering	Engineering Gold Cuboctahedral Nanoboxes with Excellent Plasmonic Properties at the Near Infrared Wavelength
Student Salary	Zoe	Klesmith	Mechanical Engineering (ME)	Jud	Ready	GTRI	Fabrication of Two-Dimensional Tunnel Field-Effect Transistors (2D-TFETs) for Analysis of Material Constraints
Student Salary	Richard	Lee	Electrical Engineering (EE)	Young Mi	Choi	Industrial Design	User Perception of Design Concepts Based on Reference Models
Student Salary	Michael	Lee	Mechanical Engineering (ME)	Seung Woo	Lee	Mechanical Engineering	High Surface Area Carbon Electrodes for Lithium-Sulfur Batteries
Student Salary	Yinglin	Li	Biomedical Engineering (BMED)	Ross	Ethier	Biomedical Engineering	Differentiation of Human Adipose-Derived Mesenchymal Stem Cells to Trabecular Meshwork Cells in situ for Glaucoma Treatment
Student Salary	Nicholas	Liao	Computer Science (CS)	Mark	Riedl	Interactive Computing	Continuous-Event Recommender Systems
Student Salary	Alexander	Lobo	Chemical and Biomolecular Engineering (CHBE)	Sven	Behrens	Chemical and Biomolecular Engineering	Nanowire Geode Project: Production and Analysis of Silica Particle Microcapsules
Student Salary	Chunqing	Lu	Biomedical Engineering (BMED)	Karim	Sabra	Mechanical Engineering	Improving the Sensitivity of Stiffness Measurement of the Achilles Tendon Using Laser Vibrometry
Student Salary	Cvrlil	Lukianov	Chemical and Biomolecular Engineering (CHBE)	Julie	Champion	Chemical and Biomolecular Engineering	Protein Nanocarrier for Targeted Intracellular Delivery of Functional Antibodies
Student Salary	Joyce	Magill	Biomedical Engineering (BMED)	David	Hu	Mechanical Engineering	Nasal Cavity Filtration
Student Salary	Taylor	McKie	Environmental Engineering (ENVE)	Kevin	Haas	Civil and Environmental Engineering	Optimization of a Point Absorber Design in Ocean Wave Energy Conversion
Student Salary	Lawrence	Moore	Computer Science (CS)	James	Hays	Interactive Computing	Detection and Elimination of Flying Insects
Student Salary	Delgermaa	Nergui	Electrical Engineering (EE)	Maysam	Ghovanloo	Electrical and Computer Engineering	Multiple simultaneously operating EnerCage system
Student Salary	Gemma	O'Connor	Industrial Engineering (IE)	Kim	Cobb	Earth and Atmospheric Sciences	The Signature of the 2015/16 El Niño Event in an Ensemble of Corals from the Central Tropical Pacific
Student Salary	Karl	Olsen	Chemical and Biomolecular Engineering (CHBE)	Ryan	Lively	Chemical and Biomolecular Engineering	In-situ MOF Growth in 6FDA Based Polyimides
Student Salary	Sai Naga Manoj	Paladugu	Physics (PHYS)	Martin	Mourigal	Physics	Effect of Magnetic Field and Dimensionality on Antiferromagnetic Spin Chains
Student Salary	Srikar	Pamidimukkala	Materials Science and Engineering (MSE)	Mark	Losago	Materials Science and Engineering	Investigation of Entropy-Stabilized Transparent Conductive Oxides
Student Salary	Andrew	Pan	Biomedical Engineering (BMED)	Todd	Sulchek	Mechanical Engineering	Ovarian Cancer Cell Sorting via a Microfluidic Biomechanical Approach
Student Salary	Nicholas	Peterman	Biomedical Engineering (BMED)	Melissa	Kemp	Biomedical Engineering	Investigating ESC Redox State Effects on Phenotypic Patterning through Quantitative Multivariate Image Analysis Pipeline
Student Salary	James	Pinder	Music Technology	Timothy	Hsu	Music	Developing an electroacoustic experimental violin
Student Salary	Josh	Rafshoon	Chemical and Biomolecular Engineering (CHBE)	Martha	Grover	Chemical and Biomolecular Engineering	In Situ Characterization of Thermal Annealing for Precise Control of Organic Transistor Performance
Student Salary	Shawn	Sanderlin	Applied Mathematics (MATH)	Peter	Yunker	Physics	Fluid Entrapment: How Shapes Affects Spreading Oil Drops and Solid Boundaries
Student Salary	Caroline	Sane	Chemical and Biomolecular Engineering (CHBE)	Mark	Styczynski	Chemical and Biomolecular Engineering	Creation of a Hybrid Promoter to Optimally Regulate a Zinc Biosensor <i>Escherichia Coli</i>
Student Salary	Joonho	Seo	Mechanical Engineering (ME)	Aaron	Young	Mechanical Engineering	Development of a New Spring Design and Sensor System for Exoskeleton Devices for Population with Gait Disturbance
Student Salary	VIGELO	SERVERA JR	Biology (BIO)	Lin	Jiang	Biological Sciences	The effect of disturbance on the relative importance of phylogenetic relatedness and trait similarity on species coexistence
Student Salary	Xiaoshan (Melody)	Shao	Biomedical Engineering (BMED)	Melissa	Kemp	Biomedical Engineering	Nrf2 Oscillatory Characterization for T Cell Activation with Microfluidic Platform
Student Salary	Arjun	Singh	Mechanical Engineering (ME)	Kyriaki	Kalaitzidou	Mechanical Engineering	Cellulose Nano-Crystals in Lightweight Composites
Student Salary	Kathryn	Stauduhar	Literature, Media, and Communication (LMC)	Amy	D'Unger	History, Technology, and Society	US Conversion Therapy: All but Forgotten
Student Salary	Madison	Stein	Aerospace Engineering (AE)	Eric	Feron	Aerospace Engineering	Exoskeletons in Reduced-Gravity Environments for Muscle Maintenance and Physical Rehabilitation
Student Salary	Maegan	Tucker	Mechanical Engineering (ME)	Aaron	Young	Mechanical Engineering	Evaluating the Metabolic Cost of a Transfemoral Powered Prosthesis through Human Subject Testing

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Student Salary	Nikhil	Venkatesh	Aerospace Engineering (AE)	Lakshmi N.	Sankar	Aerospace Engineering	Circulation Control Aerodynamics Study for Development of High-Lift Coefficient Airfoil Concepts
Student Salary	Richard	Virgo	Civil Engineering (CE)	James	Tsai	Civil and Environmental Engineering	Using emerging 3D technologies to study the correlation between pavement texture and fuel consumption and rolling resistance
Student Salary	Aiman	Waris	Biology (BIO)	Christopher	Hertzog	Psychology	Everyday Memory Strategies Interview
Student Salary	Gregory	Whyte	Chemical and Biomolecular Engineering (CHBE)	Christine	Payne	Chemistry and Biochemistry	Epigenetic effects of TiO2 nanoparticles on DNA repair genes
Student Salary	Emily	Winder	Biomedical Engineering (BMED)	Ross	Ethier	Biomedical Engineering	Finite Element Modeling of Rat Optic Nerve Head Biomechanics
Student Salary	Wenjun	Wu	Biomedical Engineering (BMED)	Adjit	Yoganathan	Biomedical Engineering	Study of Chronic Change of Fontan Hemodynamics
Student Salary	Yiqiao	Wu	Biomedical Engineering (BMED)	Will	Ratcliff	Biological Sciences	Segregation of mutants in clonal and aggregative modes of development in Saccharomyces cerevisiae
Student Salary	Michael	Xu	Materials Science and Engineering (MSE)	Matthew	McDowell	Materials Science and Engineering	New electrode materials for high capacity sodium-ion batteries
Student Salary	Karie	Yamamoto	Environmental Engineering (ENVE)	J. David	Frost	Civil and Environmental Engineering	A soil mechanics perspective of anthill excavation methods
Student Salary	Yiran	Zhao	Biomedical Engineering (BMED)	Hang	Lu	Chemical and Biomolecular Engineering	Assessing and modeling the functional relationship of C.elegans neural network
Student Salary	Yi	Zhou	Mechanical Engineering (ME)	David	Hu	Mechanical Engineering	Fluid Dynamics of Pollen Collection Process for Filter Development
Student Salary	Yuntong	Zhu	Materials Science and Engineering (MSE)	Seung Soon	Jang	Materials Science and Engineering	DFT Modeling of Li Binding: A Systematic Study of Boron-Doped Coronene for Electrochemical Storage Application
Student Salary	Michael	Zott	Chemistry (CHEM)	David	Sherrill	Chemistry and Biochemistry	Computational Chemistry, Together
Travel	Omar	Allam	Mechanical Engineering (ME)	Seung Soon	Jang	Materials Science and Engineering	Materials Design for Perovskite Solar Cell
Travel	Alexander	Buser	Physics (PHYS)	Tamara	Bogdanovic	Physics	Efficiency of Dynamical Friction in Presence of Black Hole Radiative Feedback
Travel	Xinying	Chen	Applied Mathematics (MATH)	Enid	Steinbart	Mathematics	Solvability of implicit final size equations for SIR epidemic models
Travel	Junheum	Cho	Chemical and Biomolecular Engineering (CHBE)	Seung Soon	Jang	Materials Science and Engineering	Effect of ethanol infiltration into dentin collagen fibrils using molecular dynamics simulation
Travel	Jared	Churchwell	Aerospace Engineering (AE)	Joseph	Saleh	Aerospace Engineering	Epidemiology of Helicopter Accidents: Trends, Rates, and Covariates
Travel	Nathaniel	Conn	Physics (PHYS)	Daniel	Goldman	Physics	Plant root and shoot dynamics during subsurface obstacle interaction
Travel	Nica	de Nijs	Biomedical Engineering (BMED)	Robert	Guldberg	Mechanical Engineering	Localized Histological Characterization of an In Vivo Experimental Model of Post-Traumatic Osteoarthritis
Travel	James	Farmer	Physics (PHYS)	Flavio	Fenton	Physics	Period doubling bifurcation in the zebrafish heart.
Travel	Daniel	Gurevich	Physics (PHYS)	Roman	Grigoriev	Physics	Streamwise Localization of Traveling Wave Solutions in Channel Flow
Travel	Neil	Hardy	Physics (PHYS)	Flavio	Fenton	Physics	Optimal Pulse Configuration Design For Heart Stimulation. A Theoretical, Numerical, and Experimental Study.
Travel	Qixuan	Hou	Discrete Mathematics (DMTH)	Enid	Steinbart	Mathematics	Gathering high quality information on landslides from Twitter by relevance ranking of users and tweets
Travel	Robert	Keezer	Computer Science (CS)	Duen	Chau	Computer Science	Carina: Interactive Million-Node Graph Visualization using Web Browser Technologies
Travel	Lauren	Kimbrough	Mechanical Engineering (ME)	James	Wray	Earth and Atmospheric Sciences	Phyllosilicates in Shalbatana Vallis, Mars
Travel	Blake	Lash	Biomedical Engineering (BMED)	Krishnendu	Roy	Biomedical Engineering	Imidazole-modified chitosan nanoparticles for delivery to lung epithelial cells in air-liquid interface cultures
Travel	Jesse	Liu	Biochemistry (BCHM)	Seung Soon	Jang	Materials Science and Engineering	Effect of ethanol infiltration into dentin collagen fibrils using molecular dynamics simulation
Travel	Taylor	McKie	Environmental Engineering (ENVE)	Kevin	Haas	Civil and Environmental Engineering	Optimization of a Point Absorber Design in Ocean Wave Energy Conversion
Travel	Sara	Miller	Aerospace Engineering (AE)	James	Howard	Literature, Media, & Communication	The Space Question and the Communication Center: Using Technologies and Spaces While Tutoring
Travel	Kevin	Plucker	Mechanical Engineering (ME)	Jun	Ueda	Mechanical Engineering	Predicting Task Intent From Surface Electromyography Using Layered Hidden Markov Models
Travel	Kvün	Shim	Chemical and Biomolecular Engineering (CHBE)	Seung Soon	Jang	Materials Science and Engineering	Molecular Dynamics Simulation study of Normetanephrine (NMN) on Amyloid-Beta 40 Monomer Aggregation for treatment of Alzheimer's
Travel	Madeline	Smerchansky	Biomedical Engineering (BMED)	Krishnendu	Roy	Biomedical Engineering	Bioreactor Studies
Travel	Liangyu	Tao	Biomedical Engineering (BMED)	Robert	Butera	Biomedical Engineering	Modeling Dynamic Oscillations in Deep Brain Stimulation of the Subcallosal Cingulate
Travel	Libby	Taylor	Applied Mathematics (MATH)	Tom	Trotter	Mathematics	Boolean Dimension, Local Dimension, and Ramsey Theory on Binary Trees
Travel	Elizabeth	Taylor	Discrete Mathematics (DMTH)	Matt	Baker	Mathematics	Kasteleyn Cokernels and Perfect Matchings on Planar Bipartite Graphs
Travel	Angela	Vujic	Computer Science (CS)	Melody	Jackson	Interactive Computing	Wearable, Visual Emotional Expression Glasses for ALS-specified AAC
Travel	Ruihan	Xu	Computer Science (CS)	Yi-luen, Ellen	Do	Industrial Design	2017 Tokyo Smart City Studio
Travel	Katherine	Zhang	Aerospace Engineering (AE)	Joseph	Saleh	Aerospace Engineering	Epidemiology of Helicopter Accidents: Inspection Blind Spots, Geographic Disparities, and Pilot Demographics
Travel	Sidi	Zhao	Biomedical Engineering (BMED)	Michelle	LaPlaca	Biomedical Engineering	Concussion Discrimination Accuracy Using Common Assessment Tools