Award Type	Project Title	First Name	Last Name	Major	Mentor First Name	Mentor Last Name	Mentor College	Mentor Department/School
Student Salary	Cycle Atlanta	Rohit	Ammanamanchi	Civil Engineering (CE)	Kari	Watkins	Engineering	Civil and Environmental Engineering
Student Salary	Cystatin B's role in regulating Cathepsin K activity in Sickle Cell Disease	Suhaas	Anbazhakan	Biomedical Engineering (BMED)	Philip	Keegan	Engineering	Biomedical Engineering
Student Salary	iGEM Research	Tilak	Balavijayan	Biomedical Engineering (BMED)	Thomas	Barker	Engineering	Biomedical Engineering
Student Salary	A Precise System for the 3-D tracking of Tongue Movements	Shurjo	Banerjee	Computer Engineering (CMPE)	David	Anderson	Engineering	Electrical and Computer Engineering
Student Salary	A vibration-based assessment of Achilles tendon stiffness	Shoumo	Banerji	Mechanical Engineering (ME)	Karim	Sabra	Engineering	Mechanical Engineering
Student Salary	Extracting Relative Position Information from an Image Using the Perspective Projection of a Right Trapezoid	Nicholas	Barrash	Computer Science (CS)	Jaroslaw	Rossignac	Computing	Computer Science
Student Salary	Postural Stability in Animals of Different Sizes, Shapes, and Neural Conduction Velocities	Harrison	Bartlett	Biomedical Engineering (BMED)	Lena	Ting	Engineering	Biomedical Engineering
Student Salary	iGEM	Rachael	Blackstone	Biomedical Engineering (BMED)	Eric	Goucher	Sciences	Biology
Student Salary	Magnetic Stimulation of the Peripheral Nervous System	Jessica	Block	Electrical and Computer Engineering (ECE)	Robert	Butera	Engineering	Electrical and Computer Engineering
Student Salary	The Isolation of Bromophycoic Acid Analogs From the Fijian Red Alga Callophycus sp.	David	Brumley	Biochemistry (BCHM)	Julia	Kubanek	Sciences	Chemistry and Biochemistry
Student Salary	Detecting Weak Optical Transitions with Single Atoms	Karl	Burkhardt	Chemistry (CHEM)	Kenneth	Brown	Sciences	Chemistry and Biochemistry
Student Salary	The Effect of Hypoxic Pre-Conditioning Stem Cells for Large Bone Defect Repair	Emily	Butts	Biomedical Engineering (BMED)	Robert	Guldberg	Engineering	Mechanical Engineering
Student Salary	Impact of Pulmonary Artery Stenosis on Total Cavopulmonary Connection Hemodynamics	Michael	Clay	Biomedical Engineering (BMED)	Ajit	Yoganathan	Engineering	Biomedical Engineering
Student Salary	Nematic Elastomeric Fibers in Rubber Heat Engines	Eric	Dancu	Materials Science and Engineering (MSE)	Mohan	Srinivasarao	Engineering	Materials Science and Engineering
Student Salary	Characterization of Safety and in vivo Performance of Synthetic Platelets	Kabir	Dhada	Chemistry (CHEM)	Andrew	Lyon	Sciences	Chemistry and Biochemistry
Student Salary	Challenges in the Translation and Commercialization of Cell Therapies	Brittany	Dodson	Public Policy (PUBP) (PUBP)	Aaron	Levine	Ivan Allen Liberal Arts	Public Policy
Student Salary	The Impact of the Chamber of Commerce on the Civil Rights Movement in Atlanta, 1940-1972	Kendall	Eide	History, Technology, and Society (HTS)	Bill	Winders	Ivan Allen Liberal Arts	History, Technology and Society
Student Salary	Effects of Emotion Arousal on Review Helpfulness: An Empirical Study	Emily	Getreu	Management (MGT)	Han	Zhang	Business	Management
Student Salary	Does Metacomprehension Change With Age?	Raine	Hayes	Psychology (PSY)	Christopher	Hertzog	Sciences	Psychology
Student Salary	Cellular Mechanisms of Nerve Block by High Frequency Stimulation Using Chemical Blockers	Rachel	Heckman	Biology (BIO)	Robert	Butera	Sciences	Electrical and Computer Engineering
Student Salary	State Space Partitions of Stochastic Chaotic Systems	Jeffrey	Heninger	Physics (PHYS)	Predrag	Cvitanovic	Sciences	Physics
Student Salary	Biosynthesis of the Indane Ring in Polyketide Metabolites	Sara	Hojjatie	Biochemistry (BCHM)	Wendy	Kelly	Sciences	Chemistry and Biochemistry
Student Salary	New Tin Based Electrode Material for Sodium-ion Batteries	JungHwa	Hong	Materials Science and Engineering (MSE)	Gleb	Yushin	Engineering	Materials Science and Engineering
Student Salary	Effect of Short-Term Deep Breathing Exercises on Attentional Ability	Amruta	Houde	Psychology (PSY)	Paul	Verhaeghen	Sciences	Psychology
Student Salary	Time Dependent Prion Interference in Diploid Saccharomyces paradoxus	Kudo	Jang	Biology (BIO)	Yury	Chernoff	Sciences	Biology
Student Salary	Attitude Determination and Control Subsystem Design for RECONSO	Andris	Jaunzemis	Aerospace Engineering (AE)	Marcus	Holzinger	Engineering	Aerospace Engineering
Student Salary	iGEM	Jackson	Jenkins	Chemical and Biomolecular Engineering (CHBE)	Kirill	Lobachev	Engineering	Biomedical Engineering
Student Salary	Improving Event Clustering Using Crowdsourcing	George	Johnston	Computer Science (CS)	Mark	Riedl	Computing	Interative Computing
Student Salary	Animal Model for Non-Invasive Imaging of Osteo-chondroprogenitors in a Radial Segmental Defect	Taylor	Kavanaugh	Biomedical Engineering (BMED)	Andres	Garcia	Engineering	Mechanical Engineering
Student Salary	Thermodynamically Stable Pickering Double Emulsions	Heather	Keefe	Chemical and Biomolecular Engineering (CHBE)	Sven	Behrens	Engineering	Chemical and Biomolecular Engineering
Student Salary	Planar Multi-Robot SLAM	Daniel	Keyes	Computer Science (CS)	Frank	Dellaert	Computing	Interactive Computing

Student Salary	Cytotoxicity and Anti-Metastatic Evaluation of Triphenylmethane Compounds on Cancer Cells and Healthy Cells	Sara	Khalek	Biomedical Engineering (BMED)	Kathleen	McNeeley	Engineering	Biomedical Engineering
Student Salary	Peripheral Nerve Interfacing using a Regenerative Microchannel Electrode Array	Adel	Kharbouch	Mechanical Engineering (ME)	Ravi	Bellamkonda	Engineering	Biomedical Engineering
Student Salary	Correlation between Epithelial-Mesenchymal Transition and Mechanical Changes in Ovarian Cancer Cells	Quang Minh	Kieu	Chemical and Biomolecular Engineering (CHBE)	Michelle	Dawson	Engineering	Chemical and Biomolecular Engineering
Student Salary	Computational Analysis of Electrocardiography Waveforms of ICU patients to Evaluate Accurateness of Manual Charting and their Potentials as an Index for the Patients' Mortality Rate	Renaid	Kim	Biomedical Engineering (BMED)	May	Wang	Engineering	Biomedical Engineering
Student Salary	Emergence of Metallic Properties in Magnesium Clusters	Ilia	Larkin	Physics (PHYS)	Walt	de Heer	Sciences	Physics
Student Salary	Understanding the Role of Iodide Ions in Shape-Controlled Synthesis of Pd Nanocrystals	Zhuoming	Li	Chemical and Biomolecular Engineering (CHBE)	Younan	Xia	Engineering	Biomedical Engineering
Student Salary	Large Scale Graph Visualization and Exploration	Zhiyuan	Lin	Computer Science (CS)	Duen Horng	Chau	Computing	Computational Science and Engineering
Student Salary	EarSketch	Elise	Livingston	Computational Media (CM)	Brian	Magerko	Ivan Allen Liberal Arts	Literature, Communication and Culture
Student Salary	Spectroscopy of Binary Black Hole Collisions	Lorena	Magana Zertuche	Physics (PHYS)	Deirdre	Shoemaker	Sciences	Physics
Student Salary	Thermal Conductivity Enhancement of Carbon Fibers	Jaeyun	Moon	Mechanical Engineering (ME)	Bo	Feng	Engineering	Mechanical Engineering
Student Salary	Determining sensitivity and specificity of virus detection via PCR in a low-cost microfluidic device	Nikita	Nagpal	Biomedical Engineering (BMED)	Craig	Forest	Engineering	Mechanical Engineering
Student Salary	Bone Mass and Mineralization in the HIV-1 Transgenic Rat	Blair	Naples	Biomedical Engineering (BMED)	Robert	Guldberg	Engineering	Mechanical Engineering
Student Salary	Combining rocker profile footwear with orthotic ankle constraint may minimize mechanical energy expended when walking	Simisola	Oludare	Biomedical Engineering (BMED)	Christopher	Hovorka	Engineering	Applied Physiology (APPH)
Student Salary	Influence of Complement on Fc Mediated Phagocytosis of Microparticles	Cecilia	Pantoja	Biomedical Engineering (BMED)	Todd	Sulchek	Engineering	Mechanical Engineering
Student Salary	Hardware Torjan Detection and Analysis	Nicholas	Parham	Computer Engineering (CMPE)	Vincent	Mooney	Engineering	Electrical and Computer Engineering
Student Salary	The effects of cytochalasin D on cell death pathway and membrane elasticity on leukemia HL-60 cell line	Krishna	Patel	Biomedical Engineering (BMED)	Todd	Sulchek	Engineering	Mechanical Engineering
Student Salary	Evaluating the Feasibility of Vector Flow Imaging Techniques for Medical Applications	Ronak	Patel	Mechanical Engineering (ME)	Karim	Sabra	Engineering	Mechanical Engineering
Student Salary	Response of sphingolipid metabolic enzyme expression to inflammation and the application of S1P analog compounds	David	Pfau	Mechanical Engineering (ME)	Edward	Botchwey	Engineering	Biomedical Engineering
Student Salary	Development of a Scanning Flow Thermal Denuder for Air Quality and Climate applications	Chang	Pyo	Environmental Engineering (ENVE)	Athanasios	Nenes	Engineering	Chemical and Biomolecular Engineering
Student Salary	Proposal for Audio Analysis Using Fuzzy Logic to Assess Animal Welfare	Chu	Qian	Industrial Engineering (IE)	Wayne	Daley	GTRI	GTRI
Student Salary	The effect of retrospective attention on long-term memory	Parissa	Rabbanifard	Biology (BIO)	Audrey	Duarte	Sciences	Psychology
Student Salary	A Noninvasive Assessment of Peripheral Nerve Regeneration	Gautam	Rangavajla	Biomedical Engineering (BMED)	Ravi	Bellamkonda	Engineering	Biomedical Engineering
Student Salary	Online Peak-Performance Seeking for Propulsion Systems with Variable Pitch Fans	Kevin	Reilley	Aerospace Engineering (AE)	Eric	Feron	Engineering	Aerospace Engineering
Student Salary	Computer Simulation of Synthetical Elastin Binding Domains	Andrew	Rohskopf	Biomedical Engineering (BMED)	Peter	Ludovice	Engineering	Chemical and Biomolecular Engineering
Student Salary	Direct Arylation of Difluorinated Quinoxaline by C-H Bond Functionalization	Anthony	Rojas	Chemistry (CHEM)	Seth	Marder	Sciences	Chemistry and Biochemistry
Student Salary	Automation of Bovine Serum Functionalization on microbeads	Benjamin	Rothschild	Mechanical Engineering (ME)	Todd	Sulchek Phd	Engineering	Mechanical Engineering
Student Salary	Hydraulically Powered Start-Stop Systems for Use in Diesel Powered School Buses	Nathan	Sacks	Mechanical Engineering (ME)	Michael	Leamy	Engineering	Mechanical Engineering
Student Salary	Thin-Film Cu2ZnSnS4 Photovoltaic Cell Investigation	Evan	Sadlon	Materials Science and Engineering (MSE)	William	Ready	Engineering	Materials Science and Engineering
Student Salary	Novel dye sensitized solar cell architecture	Nikolay	Semenikhin	Materials Science and Engineering (MSE)	Faisal	Alamgir	Engineering	Materials Science and Engineering

Student Salary	Modeling Probabilistic Risk Assessment for Volatility of Transportation Construction Material Prices	SeungHo	Shin	Industrial Engineering (IE)	Baabak	Ashuri	Architecture	Building Construction
Student Salary	SH3-Domain Affinity Based Fibronectin Biomaterials for Wound Healing	Bradley	Silverman	Chemical and Biomolecular Engineering (CHBE)	Julie	Champion	Engineering	Chemical and Biomolecular Engineering
Student Salary	Stress Reduction Through Social Robot Intervention	Braeden	Snook	Industrial Engineering (IE)	Tracy	Mitzner	Sciences	Psychology
Student Salary	In Vitro Investigation of Energy Loss in the Y-Graft Cavo-Pulmonary Connection at Exercise Conditions	Harish	Srinimukesh	Biomedical Engineering (BMED)	Ajit	Yoganathan	Engineering	Biomedical Engineering
Student Salary	Aggie: Collaborative Social Media Monitoring and Analysis	Alexandru	Stelea	Computer Science (CS)	Michael	Best	Ivan Allen Liberal Arts	International Affairs
Student Salary	Risk Assessment of Cellular UAV Components	Brandon	Stone	Mechanical Engineering (ME)	Seung-Kyum	Choi	Engineering	Mechanical Engineering
Student Salary	A Novel in vivo Intracellular Delivery System Using Laser-Carbon Interactions	Karan	Suraj	Chemical and Biomolecular Engineering (CHBE)	Mark	Prausnitz	Engineering	Chemical and Biomolecular Engineering
Student Salary	Analysis and Comparison of Aerosol Composition by Location and Season in Atlanta Using Positive Matrix Factorization	Sriram	Suresh	Chemical and Biomolecular Engineering (CHBE)	Nga	Ng	Engineering	Chemical and Biomolecular Engineering
Student Salary	Cellular Binding of Gold Nanoparticles in the Presence of Serum Proteins	Chelsea	Thompson	Chemistry (CHEM)	Christine	Payne	Sciences	Chemistry and Biochemistry
Student Salary	Improving the Efficiency of Half-Cell Lithium-Ion Batteries	Sean	Tighe	Materials Science and Engineering (MSE)	Gleb	Yushin	Engineering	Materials Science and Engineering
Student Salary	Drug Delivery Using Laser Activated Carbon Nanoparticles	Lara	Tucci	Chemical and Biomolecular Engineering (CHBE)	Mark	Prausnitz	Engineering	Chemical and Biomolecular Engineering
Student Salary	Interfacial Delamination Through Magnetic Actuation	Luis	Valles	Mechanical Engineering (ME)	Suresh	Sitaraman	Engineering	Mechanical Engineering
Student Salary	Premixed flame study under different combustor geometries	Alfredo	Valverde	Aerospace Engineering (AE)	Timothy	Lieuwen	Engineering	Aerospace Engineering
Student Salary	Anechoic Terminations For Wave-Based Vibration Control	Karthik	Venkatraman	Mechanical Engineering (ME)	Michael	Leamy	Engineering	Mechanical Engineering
Student Salary	High-throughput screen for lipid droplet variations in C. elegans due to varied E. coli diet using microfluidics	QuocAnh	Vu	Chemical and Biomolecular Engineering (CHBE)	Hang	Lu	Engineering	Chemical and Biomolecular Engineering
Student Salary	A study of wound closure as a proxy for cell mobility and the epithelial-mesencymal transition in human embryonic kidney and human ovarian carcinoma cells exposed to sphingoid bases	Andrew	Warren	Biology (BIO)	Alfred	Merrill	Sciences	Biology
Student Salary	Slow Strain Rate Test (SSRT) of X65 Carbon Steels in Simulated Fuel Grade Ethanol Solution (SFGE)	Gaoxiang	Wu	Materials Science and Engineering (MSE)	Preet	Singh	Engineering	Materials Science and Engineering
Student Salary	Influence of Imposed Mass by Ankle Foot Orthosis on Limb Motion during Gait	Tiffany	Yan	Biomedical Engineering (BMED)	Christopher	Hovorka	Sciences	Applied Physiology (APPH)
Student Salary	UVA-Blocking Nano-Composite Coating for Automobile Glass	Xueying	Zhao	Materials Science and Engineering (MSE)	Ching-Ping	Wong	Engineering	Materials Science and Engineering
Student Salary	Application of Reaction Kinetics Modeling to Polynucleotide Replication	Todd	Zhen	Chemical and Biomolecular Engineering (CHBE)	F. Joseph	Schork	Engineering	Chemical and Biomolecular Engineering
Student Salary	A Microscopic 4D Impedance Imaging Technique for Precise and Accurate Tumor Remove	Chengjie	Zhu	Electrical Engineering (EE)	Hua	Wang	Engineering	Electrical and Computer Engineering
Travel	Microfluidic Mechanical Separation of Red Blood Cells for Early Malaria Diagnosis	Rebecca	Byler	Biomedical Engineering (BMED)	Todd	Sulchek	Engineering	Mechanical Engineering
Travel	Engineering a Cellular Model with Inducible Expression of Fluorescent Hemoglobins to Optimize Sickle Cell Gene Therapy Strategies	Daniel	Clough	Biomedical Engineering (BMED)	Manu	Platt	Engineering	Biomedical Engineering
Travel	Effect of the Superior Vena Cava Placement in the Y-graft Fontan for Single Ventricle Congenital Heart Defects	Anna	Crouch	Polymer and Fiber Engineering (PFE)	Ajit	Yoganathan	Engineering	Biomedical Engineering
Travel	Comparing Tremor Detection Algorithms Using Acceleration Data from an Android Smartphone	Lydia	Hylton	Electrical Engineering (EE)	Mark	Clements	Engineering	Electrical and Computer Engineering
Travel	A Vector Autoregressive Model for Interpolating Missing Meteorological Data for Use in Building Simulation	Alisha	Kasam	Mechanical Engineering (ME)	Chris	Paredis	Engineering	Mechanical Engineering

Travel	Molecular Interaction of Erythrosine B and its variations with Amyloid β Oligomer: Molecular Modeling Approach	Doyeon	Koo	Biomedical Engineering (BMED)	Seung Soon	Jang	Engineering	Materials Science and Engineering
Travel	THE CHARACTERIZATION OF NOVEL, THERMALLY-RESPONSIVE POLY(N-ISOPROPYLACRYLAMIDE) BASED HYDROGELS	Benjamin	Laccetti	Chemical Engineering (CHE)	Lakeshia	Taite	Engineering	Chemical and Biomolecular Engineering
Travel	Correlation between individual, ICA generated, resting state fMRI networks predicts variability in reaction time on PVT	Michael	Merritt	Biomedical Engineering (BMED)	Shella	Keilholz	Engineering	Biomedical Engineering
Travel	Hemodynamic impact of the anatomical differences between the lateral tunnel and extra-cardiac Fontan connections	Malavika	Mundkur	Biomedical Engineering (BMED)	Ajit	Yoganathan	Engineering	Biomedical Engineering
Travel	BIOMIMETIC ROCKER PROFILE RESTORES SHANK PROGRESSION DURING WALKING WITH ORTHOTIC ANKLE CONSTRAINT	Simisola	Oludare	Biomedical Engineering (BMED)	Christopher	Hovorka	Sciences	Applied Physiology (AP)
Travel	Investigation of k-means clustering for the analysis of mass spectrometry imaging data	Sanaiya	Sarkari	Biomedical Engineering (BMED)	May	Wang	Engineering	Biomedical Engineering
Travel	The Effects of Transcatheter Aortic Valve Placement and Sizing on Geometric Orifice Area and Leaflet Curvature	Grant	Stearns	Biomedical Engineering (BMED)	Ajit	Yoganathan	Engineering	Biomedical Engineering
Travel	Muscle Activation Changes in Response to Orthotic Ankle Constraint during Walking	Jaemin	Sung	Biomedical Engineering (BMED)	Christopher	Hovorka	Sciences	Applied Physiology (AP)
Travel	Isolated Effect of Geometry on Mitral Valve Function for In-Silico Model Development	Steven	Touchton, Jr.	Biomedical Engineering (BMED)	Ajit	Yoganathan	Engineering	Biomedical Engineering
Travel	Biomimetic Rocker Profile Restores Lower Limb Forward Progression when Walking with Orthotic Ankle Constraint	Tiffany	Yan	Biomedical Engineering (BMED)	Christopher	Hovorka	Sciences	Applied Physiology (APPH)