

| Award Type | Project Title | First Name | Last Name | Major | Mentor First Name | Mentor Last Name | Mentor College | Mentor Department/School |
|----------------|---|--------------|--------------|--|-------------------|------------------|-------------------------|---------------------------------------|
| Student Salary | Inhibition of JNK in sickle transgenic mice reduces cathepsin K activity in the arterial wall | Suhaas | Anbazhakan | Biomedical Engineering (BMED) | Manu | Platt | Engineering | Biomedical Engineering |
| Student Salary | Genome Editing of HB51L-MYB Intergenic Region Using CRISPR/Cas9 System | Samridhi | Banskota | Chemical and Biomolecular Engineering (CHBE) | Gregory | Gibson | Sciences | Biology |
| Student Salary | Why Are Firms Letting Money Fly Away: An Analysis of the Economics Behind Fly Ash Recycling | Jennifer | Boudreau | Global Economics and Modern Languages (GEML) | Erik | Johnson | Ivan Allen Liberal Arts | Economics |
| Student Salary | Developing a Taxonomy of Everyday Support Needs for Older Adults with Mobility Disability | Hiyong | Byun | Industrial Engineering (IE) | Wendy | Rogers | Sciences | Psychology |
| Student Salary | A Genetic Test for Autism? A Content Analysis of Autism Genetic Tests Available on the Internet | Monica | Cahal | History, Technology, and Society (HTS) | Jennifer | Singh | Ivan Allen Liberal Arts | History, Technology and Society |
| Student Salary | Targeted Methods for Paired In-vivo Multipatching across Brain Structures | Christopher | Capocasale | Mechanical Engineering (ME) | Craig | Forest | Engineering | Mechanical Engineering |
| Student Salary | BubbleNet | Yiqi | Chen | Computer Science (CS) | Duen Horng | Chau | Computing | Computational Science & Engineering |
| Student Salary | Small Animal Model of Juvenile Osteochondritis dissecans | Destiny | Cobb | Biomedical Engineering (BMED) | Robert | Guldborg | Engineering | Mechanical Engineering |
| Student Salary | Investigating Mechanical Properties of Acute Lymphoblastic Leukemia Cells in Comparison to White Blood Cells | Katherine | Crawford | Biomedical Engineering (BMED) | Todd | Sulchek | Engineering | Mechanical Engineering |
| Student Salary | Developing a metal air electrochemical cell for high energy density battery applications | Samuel | Cruz | Mechanical Engineering (ME) | Seung Woo | Lee | Engineering | Mechanical Engineering |
| Student Salary | Experimental Characterization of Air-Coupled Piezoelectric Transducers for Nonlinear Ultrasonic Measurements | Preston | Culbertson | Mechanical Engineering (ME) | Laurence | Jacobs | Engineering | Mechanical Engineering |
| Student Salary | How Secure Are Embedded Devices from Electromagnetic Covert and Side Channel Attacks? | Angel Andres | Daruna | Electrical and Computer Engineering (ECE) | Alenka | Zajic | Engineering | Electrical and Computer Engineering |
| Student Salary | Data Fusion with Deep Learning in a Multimodal Tongue Drive System | Virginia | Dobson | Electrical and Computer Engineering (ECE) | David | Anderson | Engineering | Electrical and Computer Engineering |
| Student Salary | Computational Mechanisms for Nonverbal Intelligence | Mohamed | El Banani | Mechanical Engineering (ME) | Malthilee | Kunda | Computing | Interactive Computing |
| Student Salary | Synthesis and processing of n-type poly(nickel-1,1,2,2-ethylenetetrahiolate) thermoelectric thin-films | Arnold | Eng | Chemical Engineering (CHE) | Shannon | Yee | Engineering | Mechanical Engineering |
| Student Salary | Understanding Situational Perceptions: Differentiating Situation Strength from Content | Katie | England | Psychology (PSY) | Rustin | Meyer | Sciences | Psychology |
| Student Salary | Establishing more resilient electricity infrastructure systems with considerations to landfalling tropical cyclones | Molly | Fink | Electrical Engineering (EE) | James | Belanger | Sciences | Earth and Atmospheric Sciences |
| Student Salary | Real-time earthquake energy determinations from the cessation of strong shaking at distant seismometers | Kaitlin | Gardner | Earth and Atmospheric Sciences (EAS) | Andrew | Newman | Sciences | Earth and Atmospheric Sciences |
| Student Salary | 3 Dimensional Spatiotemporal Reconstruction | Avani | Gupta | Aerospace Engineering (AE) | Narayanan | Komerath | Engineering | Aerospace Engineering |
| Student Salary | Spatiotemporal delivery strategy for growth factors using Heparin particles localized on an electrospun membrane | Nikhil | Gupte | Biomedical Engineering (BMED) | Robert | Guldborg | Engineering | Mechanical Engineering |
| Student Salary | TrEVOR: Transportable Extensional Video Outfitted Rheometer | Lee | Hagood-James | Mechanical Engineering (ME) | David | Hu | Engineering | Mechanical Engineering |
| Student Salary | Enhancing n-channel polymer semiconductor thin films through solution processing using selective solvents and effective morphology control techniques | Yundi | Jiang | Chemical and Biomolecular Engineering (CHBE) | Elsa | Reichmanis | Engineering | Chemical and Biomolecular Engineering |
| Student Salary | Efficacy of various laser-activated carbon nanomaterials for intracellular delivery | Princeton | Jospeh | Biomedical Engineering (BMED) | Mark | Prausnitz | Engineering | Chemical and Biomolecular Engineering |
| Student Salary | Modular circuit construction techniques for the development of production-ready e-textile garments | Benjamin | Katz | Industrial Design (ID) | Jim | Budd | Architecture | Industrial Design |
| Student Salary | Ant Bridges React to Vibration | Harsh Rajiv | Khaitan | Mechanical Engineering (ME) | David | Hu | Engineering | Mechanical Engineering |
| Student Salary | Discovering Potential Therapeutic Application of Amyotrophic Lateral Sclerosis (ALS) by Conducting Multiple Treatment Meta-Analysis (MTM) on Studies on SOD1 G93A Mouse Model | Renaid | Kim | Biomedical Engineering (BMED) | Cassie | Mitchell | Engineering | Biomedical Engineering |
| Student Salary | Degradable Oxanorbornadiene Reagents for Switchable Modification of Surface Properties | Seung Yeon | Kim | Chemical Engineering (CHE) | M.G. | Finn | Sciences | Chemistry and Biochemistry |
| Student Salary | Heart-Rate and Respiration-Rate estimation using Kalman filter implementation | Phillippe | Laban | Electrical and Computer Engineering (ECE) | Mary Ann | Weitnauer | Engineering | Electrical and Computer Engineering |
| Student Salary | The Fluid Mechanics of Feces | Richard | Lehner | Mechanical Engineering (ME) | David | Hu | Engineering | Mechanical Engineering |
| Student Salary | The Effects of Gender Differences in Confidence in Spatial Cognition on Strategies and Comprehension during Science Learning | Natalie | Lembeck | Psychology (PSY) | Scott | Moffat | Sciences | Psychology |
| Student Salary | Microfluidic Device for Platelet Activation at Varying Shear Rates and Hydraulic Resistances | Yuanda | Li | Mechanical Engineering (ME) | YongTae | Kim | Engineering | Mechanical Engineering |
| Student Salary | Response of Swirl Flames to Transverse Acoustic Excitation | Jamie | Lim | Aerospace Engineering (AE) | Tim | Lieuwen | Engineering | Aerospace Engineering |
| Student Salary | Detection and Study of VOCs Using Conductometric Porous Silicon Sensors | Arthur | Lin | Physics (PHYS) | James | Gole | Sciences | Physics |
| Student Salary | Analysis of the volatility and cloud droplet formation potential of particles sampled during the Summer 2014 NASA DISCOVER-AQ field campaign in Colorado | Shitian | Liu | Earth and Atmospheric Sciences (EAS) | Athanasios | Nenes | Sciences | Earth and Atmospheric Sciences |

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|----------------|---|--------------|---------------|--|-------------|-------------|--------------|---------------------------------------|
| Student Salary | Kinetics of Heteroaggregation in Binary Mixture of Colloidal Particles | Zhe | Liu | Chemical and Biomolecular Engineering (CHBE) | Sven | Behrens | Engineering | Chemical and Biomolecular Engineering |
| Student Salary | An Analytical Approach to Soft Matter Materials: Development of Quantification and Characterization Techniques for Cationic Microgels | Anabel | Liye Cartelle | Biochemistry (BCHM) | M.G | Finn | Sciences | Chemistry and Biochemistry |
| Student Salary | Determining the phenotypic stability & ex vivo expansion of human chondrocytes on decellularized cartilage microcarriers. | Elizabeth | Marr | Biomedical Engineering (BMED) | Todd | McDevitt | Engineering | Biomedical Engineering |
| Student Salary | The effects of sibling recognition due to habitat loss in coral reef fish | Kathryn | Martin | Biology (BIO) | Danielle | Dixon | Sciences | Biology |
| Student Salary | Ion Trapping of Cellular Contained Water Droplets via a Planar Ion Trap | Brian | McMahon | Physics (PHYS) | Ken | Brown | Sciences | Chemistry and Biochemistry |
| Student Salary | Studying the impact of aging on heme metabolism using genetically encoded heme sensors | Yash | Mehta | Biochemistry (BCHM) | Amit | Reddi | Sciences | Chemistry and Biochemistry |
| Student Salary | Faviidae Corals: a new Paleoclimate archive | Shellby | Miller | Earth and Atmospheric Sciences (EAS) | Kim | Cobb | Sciences | Earth and Atmospheric Sciences |
| Student Salary | Seamlessly Integrated Models for Multi-physics Analysis of Nanocomposites | Thomas | Ming | Mechanical Engineering (ME) | Raghu | Pucha | Engineering | Mechanical Engineering |
| Student Salary | The effects of impaired sensory feedback on motor output: Insights from a decoupled bicycle | Allison | Moczynski | Biomedical Engineering (BMED) | Young-Hui | Chang | Sciences | Applied Physiology |
| Student Salary | Communication Protocol Optimization for Unmanned Aerial Systems | Mark | Mote | Aerospace Engineering (AE) | Eric | Feron | Engineering | Aerospace Engineering |
| Student Salary | Quantitative examination of observed bifurcations in quasi-two-dimensional flow and comparison to numerical simulations | James | Mullenbach | Physics (PHYS) | Michael | Schatz | Sciences | Physics |
| Student Salary | Effects of Nutrition on the Growth and Survival of Juvenile Dwarf Seahorses, Hippocampus zosterae | Jamie | O'Donnell | Biology (BIO) | Danielle | Dixon | Sciences | Biology |
| Student Salary | Perylene Diimide Surface Modifiers with Bulky Substitution | Gabriel | Pajares | Biochemistry (BCHM) | Seth | Marder | Sciences | Chemistry and Biochemistry |
| Student Salary | Testing the Compressive Fatigue Properties of Soft Polymers | Kanchi | Patel | Biomedical Engineering (BMED) | Ken | Gall | Engineering | Materials Science and Engineering |
| Student Salary | Experimental investigation of molecular communication in transmitter and reporter bacteria | Jorge | Perdomo | Biomedical Engineering (BMED) | Craig | Forest | Engineering | Mechanical Engineering |
| Student Salary | Automatic Annotation of Video Segmentation based on Ground Truth User Annotations | Luis | Perez | Computer Science (CS) | Irfan | Essa | Computing | Interactive Computing |
| Student Salary | Determination of the Effects and Pathways of Action of Anti-Inflammatory Compounds on Regeneration of Pancreatic Beta-Cells In Vivo | Deeti | Pithadia | Biochemistry (BCHM) | Chong | Shin | Sciences | Biology |
| Student Salary | Flexible Stirling Heat Engines | Kevin | Pluckter | Mechanical Engineering (ME) | Todd | Sulchek | Engineering | Mechanical Engineering |
| Student Salary | Propeller Optimization for the LEAPTech General Aviation Aircraft Concept | Joshua | Price | Aerospace Engineering (AE) | Brian | German | Engineering | Aerospace Engineering |
| Student Salary | Determining the genetic basis for evolutionary multicellular morphological complexity | Jennifer | Ratray | Biology (BIO) | Will | Ratcliff | Sciences | Biology |
| Student Salary | Mechanism of Protein-Mediated PEDOT:PSS synthesis | Jessica | Richey | Biochemistry (BCHM) | Christine | Payne | Sciences | Chemistry and Biochemistry |
| Student Salary | Engineering a Chondrogenic Microenvironment to Promote MSC Chondrogenesis | Apoorv | Saraogee | Chemical and Biomolecular Engineering (CHBE) | Todd | McDevitt | Engineering | Biomedical Engineering |
| Student Salary | Surgical Planning of the Fontan Procedure for Single Ventricle Congenital Heart Defects: A Robustness Analysis | Jake | Sebring | Biomedical Engineering (BMED) | Ajit | Yoganathan | Engineering | Biomedical Engineering |
| Student Salary | Nonlinear Wave Propagation in Non-Destructive Techniques and Evaluation | Nicholas | Selby | Mechanical Engineering (ME) | Laurence | Jacobs | Engineering | Mechanical Engineering |
| Student Salary | Understanding Cell Migration Behavior in Collagen Matrices Implanted with Ultra Soft Microgels | Michael | Sellers | Biochemistry (BCHM) | Thomas | Barker | Engineering | Biomedical Engineering |
| Student Salary | EXTRAPOLATING BALLISTIC LIMIT EQUATIONS OF BULK METALLIC GLASS LAMINATE SYSTEMS FOR USE IN LOW EARTH ORBIT SPACECRAFTS | Nikhil | Shukla | Materials Science and Engineering (MSE) | Naresh | Thandhani | Engineering | Materials Science and Engineering |
| Student Salary | Immuno-modulatory Hydrogels for the Enhanced Survival of Neural Stem Cells after Traumatic Brain Injury | Shraddha | Srivastava | Biomedical Engineering (BMED) | Ravi | Bellamkonda | Engineering | Biomedical Engineering |
| Student Salary | Improving the Efficiency of Thermo-Electrochemical Cells | Sai | Stephens | Mechanical Engineering (ME) | Baratunde | Cola | Engineering | Mechanical Engineering |
| Student Salary | Study and Comparison of Secondary Structures of Ribosomal RNA of A. albopictus and D. melanogaster | Nelson Kevin | Tanefo Kuete | Chemistry (CHEM) | Loren | Williams | Sciences | Chemistry and Biochemistry |
| Student Salary | Mass customization approaches to the design and production of personalized therapeutic gloves | Caitlin | Taylor | Industrial Design (ID) | Jim | Budd | Architecture | Industrial Design |
| Student Salary | Developing Material Models of III-Nitride Semiconductors Using Sentaurus TCAD to Explore the Impact of Various Design Characteristics | Hilary | Taylor | Electrical Engineering (EE) | Shyh-Chiang | Shen | Engineering | Electrical and Computer Engineering |
| Student Salary | Interactive Simulations of Complex Cardiac Cell Models in Space Using Microcontrollers | Casey | Trimble | Physics (PHYS) | Flavio | Fenton | Sciences | Physics |
| Student Salary | Effect of Base Etching on the Wettability of Copper Surfaces | John | Votaw | Chemical and Biomolecular Engineering (CHBE) | Dennis | Hess | Engineering | Chemical and Biomolecular Engineering |
| Student Salary | Proteases and Feedback Mechanisms in Breast Cancer Invasion | Charlene | Walton | Biomedical Engineering (BMED) | Manu | Platt | Engineering | Biomedical Engineering |

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|----------------|--|-----------------|---------------|--|------------|------------|---------------------------|---------------------------------------|
| Student Salary | Prescription Direct-To-Consumer Advertising Reinforcement of Gender Stereotypes in Magazines With Highly Gendered Readership | Elizabeth | Warden | History, Technology, and Society (HTS) | Jennifer | Singh | Ivan Allen Liberal Arts | History, Technology and Society |
| Student Salary | Probing for Allosteric Interactions in the Yeast <i>Saccharomyces cerevisiae</i> with <i>in vitro</i> Binding Assays | Ariadne | Watson | Chemical and Biomolecular Engineering (CHBE) | Mark | Styczynski | Engineering | Chemical and Biomolecular Engineering |
| Student Salary | Low Cost Glass-Ceramic Scintillator Materials for Neutron and Gamma-ray Detection | Morgan | Watt | Materials Science and Engineering (MSE) | Jason | Nadler | Research Institute (GTRI) | Research Institute (GTRI) |
| Student Salary | Effects of PCBM addition into Liquid Crystal Solutions of Poly(3-hexylthiophene) for Polymer Solar Cell Applications | Zongzhe | Xue | Chemical and Biomolecular Engineering (CHBE) | Elsa | Reichmanis | Engineering | Chemical and Biomolecular Engineering |
| Student Salary | Effect of Inertial and Constitutive Properties on Body-freedom Flutter of a Flying Wing | Yuan | Yao | Aerospace Engineering (AE) | Dewey | Hodges | Engineering | Aerospace Engineering |
| Student Salary | Role of RVE size and periodic boundary conditions in homogenized models for nanocomposites | Patrick | Younes | Mechanical Engineering (ME) | Raghuram | Pucha | Engineering | Mechanical Engineering |
| Student Salary | Computational Modeling of Data Center Servers for Improved Energy Efficiency | Su | Yu | Mechanical Engineering (ME) | Satish | Kumar | Engineering | Mechanical Engineering |
| Student Salary | VB-PARE | Mingxi (Cici) | Zhang | Electrical Engineering (EE) | Maysam | Ghovanloo | Engineering | Electrical and Computer Engineering |
| Student Salary | Fabrication and Electrochemical Characterization of Phenylenediamine Functionalized Graphene for High Performance Supercapacitors | Yuntong | Zhu | Materials Science and Engineering (MSE) | CP | Wong | Engineering | Materials Science and Engineering |
| Travel | Empty Glass Detection | Jackson | Autry | Electrical Engineering (EE) | Gregory | Durgin | Engineering | Electrical and Computer Engineering |
| Travel | Assessment of Bacteriophage Activity in Poly(Ethylene Glycol) Hydrogels | Maria | Diaz Ortiz | Biomedical Engineering (BMED) | Andres | Garcia | Engineering | Mechanical Engineering |
| Travel | Empty Glass Detection | Kyle | Francis | Electrical Engineering (EE) | Gregory | Durgin | Engineering | Electrical and Computer Engineering |
| Travel | Beyond Cost Tools: Spacecraft Net Present Value and the Hosted Payload Paradigm | Fan | Geng | Aerospace Engineering (AE) | Joseph | Saleh | Engineering | Aerospace Engineering |
| Travel | First-Principles Density Functional Theory Modeling Study on the Redox Chemistry of Graphene Oxides Affected by Placement Geometry of Oxygen Functional Groups | Sunghee | Kim | Mechanical Engineering (ME) | Seung Soon | Jang | Engineering | Materials Science and Engineering |
| Travel | Empty Glass Detection | Jung Hun | Kim | Electrical Engineering (EE) | Gregory | Durgin | Engineering | Electrical and Computer Engineering |
| Travel | Development of Circuit Integrated Carbon Nanotube Supercapacitors within Doped Silicon Wafers | Ravi | Konjeti | Mechanical Engineering (ME) | Jud | Ready | Research Institute (GTRI) | Research Institute (GTRI) |
| Travel | Deepwater Horizon impacts on the pelagic foodweb: Stable isotope constraints on zooplankton carbon and nitrogen sources | Drake | Lee Patterson | Biology (BIO) | Joseph | Montoya | Sciences | Biology |
| Travel | Tactile Teacher: Sensing Finger Tapping in Piano Playing | Richard | Li | Computer Science (CS) | Ellen | Do | Architecture | Industrial Design |
| Travel | Using backscattering interferometry to characterize interactions of the cystic fibrosis transmembrane conductance regulator with small molecule modulators | Ashley | Lockwood | Biology (BIO) | M.G. | Finn | Sciences | Chemistry and Biochemistry |
| Travel | SWCA Conference Panel and Research Description | Sara | Miller | Aerospace Engineering (AE) | Karen | Head | Ivan Allen Liberal Arts | Literature, Media, & Communication |
| Travel | 5.8 GHz Energy Harvesting of Space Based Solar Power using Inkjet Printed Circuits on a Flexible, Transparent Substrate | Hiba | Murali | Computer Engineering (CMPE) | Gregory | Durgin | Engineering | Electrical and Computer Engineering |
| Travel | Empty Glass Detection | Kyle | Porter | Computer Engineering (CMPE) | Gregory | Durgin | Engineering | Electrical and Computer Engineering |
| Travel | Empty Glass Detection | Alex | Rhim | Electrical Engineering (EE) | Gregory | Durgin | Engineering | Electrical and Computer Engineering |
| Travel | Human-Aware Mobile Robot Exploration and Motion Planning | Louae | Tyoan | Computer Engineering (CMPE) | Patricio | Vela | Engineering | Electrical and Computer Engineering |
| Travel | The Reinforcement of Gender Stereotypes in Prescription Direct-To-Consumer Advertising | Elizabeth | Warden | History, Technology, and Society (HTS) | Jennifer | Singh | Ivan Allen Liberal Arts | History, Technology and Society |
| Travel | Effect of Additions on Thermal and Interfacial Performance of Sodium Borosilicate Glasses | Morgan | Watt | Materials Science and Engineering (MSE) | Jason | Nadler | Research Institute (GTRI) | Research Institute (GTRI) |
| Travel | 5.8 GHz Energy Harvesting of Space Based Solar Power using Inkjet Printed Circuits on a Flexible, Transparent Substrate | Philip | Wolfe | Electrical and Computer Engineering (ECE) | Gregory | Durgin | Engineering | Electrical and Computer Engineering |
| Travel | Factors Influencing Visual Search in Complex Driving Environment | William | Woolery | Civil Engineering (CE) | Michael | Hunter | Engineering | Civil and Environmental Engineering |
| Travel | Empty Glass Detection | Yu | Xiao | Computer Engineering (CMPE) | Gregory | Durgin | Engineering | Electrical and Computer Engineering |
| Travel | Influence of Substrate Surface Energy on the Network Formation of Films made from Dilute MWNT Dispersions | Yumeng (Hayley) | Zhang | Materials Science and Engineering (MSE) | Rosario | Gerhardt | Engineering | Materials Science and Engineering |