		Student			Funding
Award School	Student Name	Major	Mentor Name	Paper Title	Type
College of Architecture					
College of Arch Adm & Schools	Burgess, Craig	Civil and Environm	Brilakis,Ioannis	Developing Videogrammetry Technology for 3D Structure Modeling	Salary
College of Arch Adm & Schools	burgess, Craig	Civil and	Billakis, Idaililis	Three-Dimensional Construction Site Resources Tracking by Machine	Salaiy
College of Arch Adm & Schools	Kamiya, Keitaro		Brilakis, Ioannis	Vision	Salary
College of Computing					
	Naraismham,	Computer	Vuduc,Richard		
Computational Science & Eng	Ashish		Wilson	A Python Library to Simplify Manycore/GPU Programming	Salary
	Castro Chin, Daniel	•			
Interactive Computing	Alejandro		Essa,Irfan A	Recognizing Gestures and Body Movements for Medical Applications	Salary
Interactive Computing	Dooley, Henry	Computer Science	Essa,Irfan A	Recognizing Gestures and Body Movements for Medical Applications	Salary
Interactive Computing	Mathur, Gaurav	Computer Science	Essa,Irfan A	Recognizing Gestures and Body Movements for Medical Applications	Salary
		Computer			
Interactive Computing	Narayan, Karthik	Science	Riedl,Mark O	Empirical Evaluation of Computational Models in Emotional Coping	Salary
		Computer	Ramachandran,Uma		
School of Computer Science	Cox, Owen	Science	kishore	Video Analysis in the Cloud	Salary
		Computer	Ramachandran,Uma		
School of Computer Science	He, Hongkang	Science	kishore	SoftFlash: Software Support for Flash Memory	Salary
School of Computer Science	Maya, Zohaib	Computer Science	Ramachandran, Umak	Large Scale Real-time Video Analysis on the Cloud	Salary
College of Engineering					
		Mechanic		Investigation of Instantaneous Flame-Flame Interactions in a Model Gas	
Aerospace Engineering	Bouldin, Lee	al	Lieuwen,Tim Charles	Turbine Combustor	Salary
		Aerospace			
Aerospace Engineering	Gao, Ruhou	Engineeri	Seitzman,Jerry M	Crossflow Air Injection Study for Low Emission Combustors	Salary
Aerospace Engineering	Hsu, Andrew	Mechanic al	Lieuwen,Tim Charles	Characterization of Syngas Fuels by Axial Staging of Transverse Fuel Injection	Salary
Act of page Engineering	risa, Aliarew	Mechanic	Licawen, min chanes	Investigation of Flow-Flame Interactions through Decomposition of	Jaiai y
Aerospace Engineering	Lu, Charles	al	Lieuwen,Tim Charles	Velocity Fields into Acoustic and Vortical Components	Salary
. i.e. copace Engineering		Aerospace		Development of a Loosely Coupled Fluid-Structure Interaction Analysis	Jaiary
Aerospace Engineering	Miller, Matthew	-	Clark,lan G	Capability	Salary

		Aerospace			
Aerospace Engineering	Zender, Fabian	Engineeri	Lieuwen,Tim Charles	Turbulent Flame Speeds of Process and Refinery Gas Fuels	Salary
	Anantharaman,	Biomedica		RELIEF OF PARKINSONIAN TREMOR USING THE NEUROSHARK, AN MRI	
Biomedical Engr, GT/Emory	Sandhya	I	Bost,Lewis Franklin	COMPATIBLE ELECTRODE	Salary
		Biomedica		The NeuroShark: A Device for the Ablation of Functional Brain Tissue for	
Biomedical Engr, GT/Emory	Bari, Bilal	I	Bost,Lewis Franklin	Treatment of Neurological Disorders	Salary
		Biomedica		Evaluation of human mesenchymal stem cell proliferation and	
Biomedical Engr, GT/Emory	Burnsed, Olivia	I	Boyan,Barbara D	differentiation when cultured on decellularized shark cartilage matrix	Salary
		Biomedica	Kemp, Melissa	Modeling the Smad Protein Pathway in Lung Carcinoma Cells Undergoing	
Biomedical Engr, GT/Emory	Butler, Michael	I	Lambeth	Epithelial-Mesenchymal Transition	Salary
		Biomedica		The Effect of Various Mitral Annuloplasty Ring Geometries On Mitral	
Biomedical Engr, GT/Emory	Chism, Benjamin	I	Yoganathan,Ajit	Valve Function and Mechanics In An In-Vitro Model	Salary
		Biomedica			
Biomedical Engr, GT/Emory	Cooper, Alexander	I	Bost,Lewis Franklin	Magnetically-Assisted Intubation Device	Salary
		Biomedica		Mapping Anatomical Connectivity of the Primate Cerebral Cortex using	
Biomedical Engr, GT/Emory	Damen, Frederick	ı	Hu,Xiaoping	Diffusion MRI	Salary
		Biomedica			
Biomedical Engr, GT/Emory	Foster, Brent	ı	Yoganathan,Ajit	Grace Valve Project	Salary
	·	Mechanic		Investigation of Normal Tricuspid Papillary Muscle Motion using	
Biomedical Engr, GT/Emory	Jordan, Holly	al	Yoganathan,Ajit	Magnetic Resonance Imaging	Salary
		Biomedica	Bellamkonda,Ravi		
Biomedical Engr, GT/Emory	Joseph, Anish	ı	Venkat	Biodegradable Microchannel Scaffolds for Peripheral Nerve Regeneration	Salary
		Biomedica		Use of Vortex Generators to Reduce Thromboembolic Complications	
Biomedical Engr, GT/Emory	Madhani, Shalv	ı	Yoganathan,Ajit	Associated With Mechanical Heart Valves	Salary
		Biomedica	Stanley,Garrett	The Effects of Sensory Adaptation on Discrimination in the Behaving	
Biomedical Engr, GT/Emory	McLean, Elaina	I	Baker	Animal	Salary
		Biomedica	Kemp, Melissa	Modeling TNF- α regulation of mTOR via IKK-β dependent/independent	
Biomedical Engr, GT/Emory	Mitra, Debika	I	Lambeth	pathways	Salary
		Biomedica		Ultrasonic Electroplating with Additives of in vitro Microelectrode Arrays	
Biomedical Engr, GT/Emory	Morris, Aaron	ı	Potter,Steven M	to Reliably Improve Impedance	Salary
5 to 5, 5 to 5		Biomedica	Kemp, Melissa	Cellular signal remodeling under the application of long term, low levels	
Biomedical Engr, GT/Emory	Ni, Willa	I	Lambeth	of reactive oxygen species (ROS) to HeLa cells	Salary
	Nizkorodov,	Biomedica		Ablation of Vitamin D3 Receptors Modulates Osteogenic Differentiation	
Biomedical Engr, GT/Emory	Alexandr	I	Boyan,Barbara D	of Bone Marrow Stromal Cells	Salary
		Biomedica	Stanley, Garrett	Behavioral and Neuronal Effects of Sensory Adaptation in Rodent	
Biomedical Engr, GT/Emory	Pace, Christopher	I	Baker	Vibrissae System	Salary
	· ·	Biomedica		Comparing the Stimulation Performance of Microelectrodes to that of	
Biomedical Engr, GT/Emory	Parekh, Amit	li	Gross,Robert Elkan	Traditional DBS Macroelectrodes	Salary

		Chemistry	Bellamkonda,Ravi	Influencing of Macrophages Functional Phenotype via Agarose 3D	
Biomedical Engr, GT/Emory	Parham, Melissa	and	Venkat	Hydrogel	Salary
	Riemenschneider,	Biomedica			
Biomedical Engr, GT/Emory	Kelsie	I	Boyan,Barbara D	VitaminD3 Signaling in Growth Plate Chondrocytes Under Hypoxia	Salary
		Biomedica		Determining the Accuracy of Molecular Beacons that Detect β-globin	
Biomedical Engr, GT/Emory	Scott, Benjamin	ı	Bao,Gang	Expression in Cells	Salary
-	_	Biomedica		The effect of BMP-2 and wear particles on the inflammatory response of	
Biomedical Engr, GT/Emory	Tan, Christian	I	Boyan,Barbara D	MG63 cells	Salary
	Thompson,	Biomedica			
Biomedical Engr, GT/Emory	William	I	Bost,Lewis Franklin	Magnet Assisted Endotracheal Intubation Method and Device	Salary
	Touchton Jr,	Biomedica			
Biomedical Engr, GT/Emory	Steven	ı	Yoganathan, Ajit	Restrictive Mitral Annuloplasty: Friend or Foe?	Salary
		Biomedica		Right Heart Geometry in Pulmonary Arterial Hypertension Evaluated	
Biomedical Engr, GT/Emory	Troxler, Lauren	ı	Yoganathan,Ajit	Using 3D Echocardiography	Salary
-	Wasilewski,	Biomedica			
Biomedical Engr, GT/Emory	Christine	ı	Boyan,Barbara D	HIF1-α Inhibition in Adipose Stem Cells for Promotion of Chondrogenesis	Salary
-		Biomedica	Olivares-		
Biomedical Engr, GT/Emory	Whitton, Alaina	I	Navarrete,Rene'	Phenotypic Fingerprint in Non-syndromic Craniosynostosis	Salary
		Biomedica		Agonist peptide inhibition by antagonist peptide during T cell activation:	-
Biomedical Engr, GT/Emory	Williams, Chad	I	Zarnitsyna, Veronika I	global or local effect on T cell	Salary
		Biomedica		Assessment of Surgical Planning Accuracy: Comparing Virtual Models to	
Biomedical Engr, GT/Emory	Swanson, Carson	I	Yoganathan,Ajit	Post-Operative Anatomies	Travel
		Biomedica			
Biomedical Engr, GT/Emory	Bracaglia, Laura	I	Yoganathan,Ajit	Fluid Mechanical Analysis of Surgically Recontructed Aortas	Travel
		Biomedica	Styczynski,Mark	Elimination of Antibiotic Resistance Genes Using Clustered Regularly	
Chemical and Biomolecular Engr	Agrawal, Mitesh	I	Philip-Walter	Interspaced Short Palindromic Repeats (CRISPR) Systems	Salary
		Chemical			
Chemical and Biomolecular Engr	Barre, Madison	and	Nair,Sankar	Metal-Organic Framework (MOF) Materials for Membrane Separations	Salary
		Chemical			
Chemical and Biomolecular Engr	Burge, Charles	and	Eckert, Charles A	Prebiotic Routes to Polymer Formation	Salary
		Chemical		Synthesis and Gas Adsorption Properties of MOF Materials for CO2	
Chemical and Biomolecular Engr	DeWitt, Megan	and	Walton,Krista S	Capture Applications	Salary
	_	Chemical		Ethanol and Water Vapor Separation via tailored hydrophobic molecular	
Chemical and Biomolecular Engr	Dose, Michelle	and	Koros,William J	sieves embedded in ethanol-selective polymeric membranes	Salary
		Chemistry	Bommarius, Andreas	INCREASING THE YIELD OF AMINOAROMATICS THROUGH THE	
Chemical and Biomolecular Engr	Ferguson, Kyle	and	S	NITROREDUCTASE PROCESS	Salary
		Chemical		Characterization of Anion-Exchange Membranes for Use in Direct Alcohol	
Chemical and Biomolecular Engr	Kent, lan	and	Kohl,Paul A	Fuel Cells	Salary

		Biomedica		Species Differences in Mesenchymal Stem Cell Adhesion Molecule	
Chemical and Biomolecular Engr	Lin, Virginia	I	Dawson, Michelle R	Expression and Cell Adhesivity	Salary
		Chemistry		Understanding the Role of Soluble Growth Factors and Substrate Rigidity	
Chemical and Biomolecular Engr	QUACH, NHAT	and	Dawson, Michelle R	on Human Mesenchymal Stem Cell's Osteogenesis	Salary
		Chemical	Styczynski,Mark		
Chemical and Biomolecular Engr	Thomas, Anna	and	Philip-Walter	Protein-Metabolite Binding in Saccharomyces cerevisiae	Salary
		Civil and			
Civil & Environmental Engr	Costin, Aaron	Environm	Teizer,Jochen	Integrating RFID Tracking Technology and Building Information Models	Salary
		Civil and		Design and Construction of Krillbot: A Device that Mimics Krill-Generated	
Civil & Environmental Engr	Nguyen, Thanh	Environm	Webster, Donald R	Flow Fields	Salary
		Civil and			
Civil & Environmental Engr	Tzegaegbe, Jacob	Environm	Meyer,Michael D	Analysis of Bus Rapid Transit in Major Cities of Developing Nations	Salary
		Civil and			
Civil & Environmental Engr	Wall, Amanda	Environm	Garrow,Laurie Anne	Emissions Impacts of New School Bus Route Designs in Cobb County	Salary
Civil and Environmental		Civil and		-	
Engineering	Callura, Jonathan	Environm	Ching-Hua Huang	Environmental Fate and Transport of Veterinary Antibiotics	Salary
		Electrical		The Effect of High-Frequency Stimulation on the Blocking of Action	
Electrical & Computer Engr	Kitain, Adam	and	Butera,Robert J	Potential Propagation in the Sciatic Nerve of Rats	Salary
		Biomedica		Investigation of Properties of Magnetic Nanoparticles through Lipid	
Materials Science & Engr	Choi, Taedo	I	Jang,Seung Soon	Bilayers	Salary
		Materials		An Investigation of methods for ordering endohedral fullerenes to use as	
Materials Science & Engr	locozzia, James	Science	Bucknall,David G	building blocks for quantum computing	Salary
		Biomedica		Computational Study of The Smart Drug Delivery System: Thermal	
Materials Science & Engr	Kim, Tae Wan	I	Jang,Seung Soon	Sensitive Lipid Bilayer System	Salary
		Mechanic	Bassiri-	Piezoelectric Active-line-pumping System for Microfluidic Lab-On -Chip	
Mechanical Engineering	Deeb, Elisabeth	al	Gharb, Nazanin	(LOC) Applications	Salary
		Mechanic		Small Mechanical Actuator Designed With Applications to Biomechanics	
Mechanical Engineering	Glisson, John	al	Zamir,Evan A	and Medical Physics Research	Salary
		Mechanic		Optimum Manufacturing Condition for PEMFC (Polymer Electrolyte	
Mechanical Engineering	Moon, Jaeyun	al	Harris, Tequila A. L.	Membrane Fuel Cell) Membrane	Salary
		Biomedica		Quantitative Detection of Microstructural Changes in Rat Osteoarthritis	
Mechanical Engineering	Moran, Shamus	I	Guldberg,Robert E	Models	Salary
		Mechanic			
Mechanical Engineering	Weaver, Keith	al	Feng,Bo	Boiling on a Highly Smooth Sub-Micro Wire and Silicon Nanowires Arrays	Salary
	Bingham,	Mechanic			
Mechanical Engineering	Benjamin	al	Alexeev,Alexander	Designing Microscale Self-Propelling Swimmers	Travel
		Mechanic		Process Integration and Design Optimization for Model-Based Systems	
Mechanical Engineering	Min, Byung	al	Paredis, Christiaan Jos	Engineering with SysML	Travel

College of Science					
		Biomedica		Maintenance of initial amyloid structure patterns after in vitro seeding	
Biology	Deng, David	1	Chernoff,Yury O	and transfection in yeast cells	Salary
	- 0,	Biomedica	, . , .	Thermodynamic characterization to predict the effects of base pair	,
Biology	Jain, Kanav	ı	Wartell,Roger M	changes on Hfq-facilitated sRNA-mRNA duplex formation	Salary
Biology	Price, Courtney	Biology	Storici,Francesca	Mechanisms of RNA-Driven DNA Modifications	Salary
		Applied		Application of SYPRO® Orange, a Fluorescent Hydrophobic Dye, for a	
Chemistry & Biochemistry	Chi, Pamela	Physiolog	Lieberman,Raquel L	High-Throughput Ligand Binding Assay for Proteins of Unknown	Salary
		Chemistry	Fernandez,Facundo	Increasing Ion Transmission For Capillary Inlet Mass Spectrometers With	
Chemistry & Biochemistry	Falcone, Caitlin	and	М	Resistive Glass Multiple Hole Capillary Inlet Tubes	Salary
		Biomedica		Identification of large heterocyclic compounds generated in plausible	
Chemistry & Biochemistry	Khanam, Jaheda	I	Hud,Nicholas V	prebiotic reactions and examination of their interactions with nucleic	Salary
	Ruemmele,	Chemistry		Investigation into Prebiotic Synthesis of Nucleobases from Urea and	
Chemistry & Biochemistry	Michael	and	Hud,Nicholas V	Formamide	Salary
		Chemistry		High-contrast metal-responsive fluorescent probes based on synergistic	
Chemistry & Biochemistry	Sarwar, Mysha	and	Fahrni,Christoph J.	electronic and conformational switching	Salary
		Chemical		Reducing Ambient Charge Trapping of N-Channel Organic Field Effect	
Chemistry & Biochemistry	Seifried, Brian	and	Marder,Seth	Transistors	Salary
		Chemical		Reduction of membrane potential in BSC-1 cells and its effect on the	
Chemistry & Biochemistry	Sureka, Hursh	and	Payne,Christine K	binding of nanoparticles	Salary
		Biomedica			
Chemistry & Biochemistry	Terzieva, Guergana	1	Russell,Cianan B	Are workshop tips effective in improving teaching techniques?	Salary
			Fernandez De Las		
Physics	Douthit, James	Physics	Nieves, Alberto	Toroidal Droplets made with Nematic Liquid Crystal	Salary
		Mechanic			
Physics	Kasam, Alisha	al	Gole,James L	Sensor and Microreactor Design on Porous Semiconductor Surfaces	Salary
		Nuclear	Fernandez De Las		
Physics	Mohan, Kevin	and	Nieves, Alberto	The Pendant Drop Method for Measuring Interfacial Tension	Salary
Ivan Allen College					
		Mechanic			
History, Technology & Society	Lim, Yin Kuin	al	Pearson Jr, Willie	Testing of High School Math and Science in the United States	Salary
		Internatio		Government-Directed Economic Transformation: South Korea's Green	
International Affairs	Choi, Jehoon	nal Affairs	Brian Woodall	Growth Strategy	Salary
		Computer			
International Affairs	Flannery, Daniel	Science	Best,Michael L	Electrical Power Mapping Across Nigeria	Salary

				Emerging Biotechnology and Biosecurity Policy: Development of Threat	
International Affairs	Murphy, Patricia	Biology	Kosal, Margaret E	Framework for Scientific Analysis of Potential Biological Weapons	Salary
		Modern			
Modern Languages	Bennett, Benjamin	Languages	Cottille-Foley,Nora C	French-African Identity in the Works of Marie NDiaye	Salary
		Public	Matisoff, Daniel	Carbon Emissions Transparency and Firm Behavior as a Response to the	
Public Policy	O'Brien, John	Policy	Charles	Carbon Disclosure Project	Salary
		Public	Noonan,Douglas	The Advancement of Economic Freedom via Promotion of Open Source	
Public Policy	Yamamoto, lan	Policy	Simpson	Software	Salary
GTRI					
		Materials		Transparent Glass Matrix Nanocomposite Scintillators for Neutron	
GTRI Electro-Optical Sys Labs	Dai, Wei	Science	Kang,Zhitao	Detection	Salary
		Materials	Stollberg,David	Nanogenerator Enhancement from Gallium Nitride Coated Carbon	
GTRI Electro-Optical Sys Labs	Hembree, Joseph	Science	Walter	Nanotubes	Salary
		Biomedica	Ready,William		
GTRI Electro-Optical Sys Labs	Reit, Radu	I	Judson	CNT Deposition onto metal foils for use as a supercapacitor electrode	Salary