

FY18/2019	FY 19 Proposals							
Submit Date	PI Name	Dept	Project Title	Agency	Total	Proposed Start Date	Proposed End Date	
3/8/2019	Zhai, Shengjie	Mechanical Engineering	R11 Track-4: The Integration of Plasmonic Nanoantenna and Super-Hydrophobic Surface for Ultrasensitive Fluorescence Immunoassay	National Science Foundation	175,719	10/1/2019	9/30/2021	
3/8/2019	Khan, Eakalak	Civil & Environmntl Eng & Const	NSF INCLUDES Alliance: SMART Coast to Coast (C2C): Broadening STEM Participation with Teacher Leaders and Community-Based Water Science Engineering	University of Maine, Orono	169,830	9/2/2019	8/30/2024	
3/4/2019	Morris, Brendan	Transportation Research Center	IoT and Edge Vision for Connected Autonomous Vehicle (CAV) Environment Perception	FACE Foundation	10,000	7/1/2019	6/30/2021	
3/9/2019	Batista, Jacimaria	Civil & Environmntl Eng & Const	Bench-Scale Evaluation to Support Bioremediation Pilot-Testing at Units 4-5 Areas, (NERT) Site, Henderson, Nevada	Tetra Tech, Inc	99,809	3/1/2019	6/30/2019	
3/12/2019	Bansal, Shubhra	Center for Energy Research	Fundamentals of Stability in 2D and 3D Pb-Free Inorganic Halide Perovskites for Photovoltaic Applications	National Science Foundation	247,544	9/2/2019	8/31/2021	
2/15/2019	Kim, Kwang	Mechanical Engineering	Consortium on Flexible Power Devices (CFPD)	U.S. Department of Energy	1,943,639	7/1/2019	6/30/2022	
	Co-PI Moon , Jaeyun	Mechanical Engineering						
2/28/2019	Marti, Erica	Civil & Environmntl Eng & Const	Phosphorus Management in the Centrate Return Stream at Flamingo Water Resource Center	Clark County Water Reclamation District	49,988	6/4/2019	6/30/2020	
	Co-PI Batista, Jacimaria	Civil & Environmntl Eng & Const						
3/5/2019	Stephen, Haroon	Civil & Environmntl Eng & Const	Enhancing Critical TRANSitions in Civil Engineering Degree Education (TRANSCeND)	National Science Foundation	2,499,464	10/1/2019	9/30/2024	
	Co-PI Khan, Eakalak	Civil & Environmntl Eng & Const						
	Co-PI Marti, Erica	Civil & Environmntl Eng & Const						
3/6/2019	Kachroo, Pushkin	Transportation Research Center	Attitudinal Survey for Seat Belt and Child Restraint Usage	Nevada Office of Traffic Safety	53,766	10/1/2019	9/30/2020	
3/6/2019	Kachroo, Pushkin	Transportation Research Center	Observational Seat Belt Usage Survey FY 20	Nevada Office of Traffic Safety	95,526	10/1/2019	9/30/2020	
3/27/2019	Morris, Brendan	Transportation Research Center	Southern Nevada Smart Communities: Automated Driving Systems with Emergency Vehicles	Regional Transportation Commission of So. Nevada	200,045	8/1/2019	7/31/2023	
3/26/2019	Chen, Yitung	Center for Energy Research	The Investigation of High-Precision Full Implicit Two-Phase Flow Numerical Simulation Model	ADTECH Inc	180,648	4/1/2019	3/31/2020	
3/27/2019	Harris, Sarah	Elec & Comp Engineering	ADEPT - Academic Data-Driven Education Plan & Trajectory: Understanding Student Persistence and Completion in STEM Fields	National Science Foundation	1,000,000	9/1/2019	8/31/2024	
	Co-PI Mulvenon, Sean	Dean, College of Education						
	Co-PI Trabia, Mohamed	Mechanical Engineering						
	Co-PI Vo, Tina	Teaching and Learning						
3/28/2019	Shrestha, Pramen	Civil & Environmntl Eng & Const	Construction Safety and Phasing Plans	Transportation Research Board	250,000	8/1/2019	10/31/2020	
3/21/2019	Kim, Si Jung	Dean, College of Engineering	NASA Space Grant: VR-STEM on the Road: Virtual Reality Mobile Science Lab	Nevada System of Higher Education	22,000	9/1/2019	8/31/2020	
	Co-PI Marti, Erica	Civil & Environmntl Eng & Const						
3/19/2019	Baghzouz, Yahia	Elec & Comp Engineering	A Real-Time Optimum Control Scheme for PV System Fleets to Improve Power System Resilience	University of Nevada, Reno	313,867	8/1/2019	7/31/2021	
3/18/2019	Culbreth, William	Mechanical Engineering	NASA Space Grant: Hands-On Training on Rocket Design and CubeSat Design with SEDS (Students Exploration and Development of Space)	Nevada System of Higher Education	24,999	7/1/2019	6/30/2020	
1/9/2019	Kim, Kwang	Mechanical Engineering	MIRO Center for 3D Printed Advanced Materials (3D-PAM)	National Aeronautics and Space Administration	2,999,882	9/1/2019	8/31/2022	
	Co-PI Bansal, Shubhra	Mechanical Engineering						
	Co-PI Moon , Jaeyun	Mechanical Engineering						
	Co-PI O'Toole, Brendan	Mechanical Engineering						
	Co-PI Zhao, Hui	Mechanical Engineering						
1/9/2019	Kim, Yoohwan	Computer Science	TCP-GEN Framework to Achieve High Performance for HAIPE-Encrypted Satellite Communication Systems	Intelligent Fusion Technology, Inc-FPT	20,000	12/21/2018	9/20/2019	
	Co-PI Jo, Ju-Yeon	Computer Science						
1/14/2019	Khan, Eakalak	Civil & Environmntl Eng & Const	Sustainable Energy Infrastructure Network: Robust, Reliable and Resilient (SUSTEIN-R3)	North Dakota State University-FPT	954,672	8/1/2019	7/31/2023	
	Co-PI Marti, Erica	Civil & Environmntl Eng & Const						
	Co-PI Moon , Jaeyun	Mechanical Engineering						
1/17/2019	Baker, R. Jacob	Elec & Comp Engineering	Dual-Mode, Extended Near-Infrared, Focal Plane Arrays Fabricated with a CMOS Compatible GeSiSn Alloy Material	Freedom Photonics LLC/FPT	149,998	7/9/2019	7/8/2021	
1/15/2019	Ahmad, Sajjad	Civil & Environmntl Eng & Const	Partner Center for Advanced Studies in Water (PCASW) at the University	University of Utah	70,001	8/16/2016	9/30/2019	
1/22/2019	Sun, Ke-Xun	Elec & Comp Engineering	Neutron Radiation Hardness of GaN and Wide Bandgap Semiconductors - Task 35	Mission Support and Test Services, LLC	58,005	1/22/2019	5/18/2019	
1/15/2019	James, David	Civil & Environmntl Eng & Const	Evaluation of Approaches to Determine Mixing and Assimilation of Reuse Effluent	U.S. Bureau of Reclamation	63,000	6/2/2017	9/30/2020	
	Co-PI Gerrity, Daniel	Civil & Environmntl Eng & Const						
	Co-PI Hayes, Donald	Civil & Environmntl Eng & Const						
	Co-PI Stephen, Haroon	Civil & Environmntl Eng & Const						

2/20/2019	Park, Jee Woong	Civil & Envirnmntl Eng & Const	Bridge Monitoring Through a Hybrid Approach Leveraging Modal Updating and Machine Learning	University of Hawaii at Manoa	64,990	9/1/2019	2/28/2021
	Co-PI Sherman, Ryan	Civil & Envirnmntl Eng & Const					
2/12/2019	Kachroo, Pushkin	Transportation Research Center	Observational Seat Belt Usage Survey FY 19	Nevada Office of Traffic Safety	10,000	10/1/2018	9/30/2019
2/20/2019	Morris, Brendan	Transportation Research Center	Study of Advanced Mobility and Traffic Safety Technologies using a Virtual Reality and Motion-based Driving Simulation Environment	FACE Foundation	5,000	9/1/2017	8/31/2019
	Co-PI Copeland, David	Psychology					
8/9/2018	Sherman, Ryan	Civil & Envirnmntl Eng & Const	Galena Creek Bridge Health Monitoring Instrumentation	NV Department of Transportation	299,782	2/13/2019	3/31/2021
	Co-PI Park, Jee Woong	Civil & Envirnmntl Eng & Const					
2/15/2019	Barzilov, Alexander	Mechanical Engineering	Nevada Nuclear Security Consortium	National Nuclear Security Administration	2,771,074	10/1/2019	9/30/2022
	Co-PI Gelis, Artem	Chemistry & Biochemistry					
	Co-PI Sun, Ke-Xun	Elec & Comp Engineering					
	Co-PI Yim, Woosoon	Mechanical Engineering					
1/25/2019	Zhan, Justin (Zhijun)	Computer Science	RII Track-2 FEC: G2PSoil - Harnessing the Data Revolution to Uncover Genome to Phenome Connections in Disturbed Soils	National Science Foundation	3,933,599	7/1/2019	6/30/2023
	Co-PI Hedlund, Brian	School of Life Sciences					
2/8/2019	Teng, Hualiang	Civil & Envirnmntl Eng & Const	Tier 1 University Transportation Center on Rail Infrastructure (RailTeam)	U.S. Department of Transportation	1,020,100	12/6/2016	9/30/2022
4/10/2019	Morris, Brendan	Transportation Research Center	Center of Excellence for Accelerating Operational Efficiency (CAOE)/Passenger Arrival Estimation and Dynamic Resource Allocation for Security Checkpoints - An Educational Experience	Arizona State University	63,540	4/15/2019	6/30/2019
2/14/2019	Kim, Yoohwan	Computer Science	Defending IoT and SCADA Systems in Critical Infrastructures from Cyber Attacks	National Nuclear Security Administration	2,847,680	10/1/2019	9/30/2022
	Co-PI Jo, Ju-Yeon	Computer Science					
3/29/2019	Karakouzian, Moses	Civil & Envirnmntl Eng & Const	NASA Space Grant: The Effect of Extreme Streamflow Conditions due to Climate Change on Scouring of Bridge Foundations	Nevada System of Higher Education	40,390	7/1/2019	3/31/2020
	Co-PI Ahmad, Sajjad	Civil & Envirnmntl Eng & Const					
4/12/2019	Oh, Paul	Mechanical Engineering	INSPIRE: Mobile-Manipulating UAV's for Sensor Installation, Bridge Inspection and Maintenance (AS-1)	Missouri University of Science and Technology	81,596	3/1/2017	12/31/2019
4/15/2019	Stefik, Andy	Computer Science	REU Supplement: ECR DCL Level 2: Perceptual and Implementation Strategies for Knowledge Acquisition of Digital Tactile Graphics for Blind and Visually Impaired Students	National Science Foundation	8,000	1/15/2017	12/31/2019
4/15/2019	Stefik, Andy	Computer Science	REU Supplement: Collaborative Research: AccessCS for All: Including Students with Disabilities in at High School Computer Science	National Science Foundation	16,000	9/1/2017	8/31/2020
4/24/2019	Park, Jee Woong	Civil & Envirnmntl Eng & Const	Course of Action and its Impacts on Saving Lives under the Risk of Mass Shooting	National Science Foundation	224,054	11/1/2019	10/31/2022
4/19/2019	Kim, Yoohwan	Computer Science	A Blockchain Enabled Decentralized Resource Information Sharing, Automating, Verification and Access Management System	National Aeronautics and Space Administration	37,500	9/1/2019	8/31/2020
	Co-PI Jo, Ju-Yeon	Computer Science					
4/19/2019	Jo, Ju-Yeon	Computer Science	GenCyber Summer Camp for High School Students in Southern Nevada/University of Las Vegas GenCyber Grant	National Security Agency	97,650	4/18/2019	4/17/2020
	Co-PI Kim, Yoohwan	Computer Science					
5/2/2019	Zhan, Justin (Zhijun)	Computer Science	Establishing a Reserve Education Assistance Program (REAP in Data Science and Engineering at University of Nevada, Las Vegas) Carrera and Paliskara	The Academy of Applied Science, Inc	1,000	1/1/2017	9/30/2019
5/7/2019	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	12,568	10/1/2016	3/31/2019
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
5/7/2019	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	6,824	10/1/2016	3/31/2019
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
5/7/2019	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	15,097	10/1/2016	3/31/2019
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
5/7/2019	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	12,598	10/1/2016	3/31/2019
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
5/7/2019	Bansal, Shubhra	Mechanical Engineering	Metastability and Long-Term Degradation in CIGS Devices: Effect of Alkali Treatments, Back Contact and Emitter Layers	U.S. Department of Energy	278,256	4/1/2017	3/31/2020
4/30/2019	Jiang, Yingtao	Elec & Comp Engineering	Coordinating Curricula and User Preferences to Maximize the Participation of Women and Students of Color in Engineering	University of California, Santa Barbara	17,607	10/1/2018	9/30/2019

4/25/2019	Breen, Erin	Transportation Research Center	Vulnerable Road Users Project	Nevada Office of Traffic Safety	9,000	7/1/2018	6/30/2021
5/1/2019	Kim, Yoohwan	Computer Science	BlendSIS: A Blockchain Enabled Decentralized Safety Information Sharing, Automating Verification and Access Management System	U.S. Department of Transportation	20,000	9/1/2019	8/31/2020
	Co-PI Jo, Ju-Yeon	Computer Science					
4/25/2019	Kachroo, Pushkin	Transportation Research Center	Observational Seat Belt Usage Survey FY 19	Nevada Office of Traffic Safety	73,138	10/1/2018	9/30/2019
3/14/2019	Muthukumar, Venkatesan	Elec & Comp Engineering	NASA Space Grant: PATHWAY TO NASA: Enabling Foundation for NASA's Earth and Space Science Missions - Match	NV System of Higher Education	25,000	1/1/2019	4/9/2020
	Co-PI O'Toole, Brendan	Mechanical Engineering					
	Co-PI Regentova, Emma	Elec & Comp Engineering					
5/8/2019	Sun, Ke-Xun	Elec & Comp Engineering	Precision Time and Frequency Transfer Technique - Task 31	Mission Support and Test Services, LLC	15,000	1/1/2018	3/31/2019
5/3/2019	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	76,727	10/1/2016	9/29/2019
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
5/15/2019	Moon, Jaeyun	Mechanical Engineering	Assessment of Power Generation Performance on Flexible Thermoelectric Devices	Korea Institute of Energy Research	8,000	6/4/2019	10/4/2019
5/17/2019	Barzilov, Alexander	Mechanical Engineering	Precision Search Spectrometer for Dark Matter Gauge Bosons Produced in Nuclear Transitions	Purdue University	152,771	10/1/2019	9/30/2020
5/30/2019	Barzilov, Alexander	Mechanical Engineering	Radiation Monitor with Automatic Shift in the Direction of Prevailing and Changing Wind	Savannah River Nuclear Solutions, LLC - FPT	299,999	8/1/2019	7/30/2020
	Co-PI Yim, Woosoon	Mechanical Engineering					
5/31/2019	Zhao, Hui	Mechanical Engineering	Developing a Real-Time Field-Deployable Hand-Held Mobile Fluorescence Microscopy Based Airborne Asbestos Detection System	Savannah River Nuclear Solutions, LLC - FPT	215,910	10/1/2019	9/30/2020
	Co-PI Zhai, Shengjie	Mechanical Engineering					
5/31/2019	Moon, Jaeyun	Mechanical Engineering	Green and Cost-Effective Remediation of Organic Contaminants in Subsurface Environments: Production and Modification of Biochar from Local Feedstocks	Savannah River Nuclear Solutions, LLC - FPT	222,275	9/1/2019	8/31/2020
	Co-PI Marti, Erica	Civil & Environmntl Eng & Const					
5/31/2019	Khan, Eakalak	Civil & Environmntl Eng & Const	Remediation of Trichloroethene in Groundwater by Biologically Active Filtration	Savannah River Nuclear Solutions, LLC - FPT	215,305	9/1/2019	8/31/2020
	Co-PI Moon , Jaeyun	Mechanical Engineering					
5/31/2019	Marti, Erica	Civil & Environmntl Eng & Const	Solar Photocatalytic Remediation of Organic and Inorganic Contaminants in Groundwater	Savannah River Nuclear Solutions, LLC - FPT	294,142	8/1/2019	7/31/2020
	Co-PI Khan, Eakalak	Civil & Environmntl Eng & Const					
5/15/2019	Kim, Si Jung	Dean, College of Engineering	A Survey and Analysis of Animatronics and a Creation of Movie Clip of Tele-Animatronics for Hotel Concierge Based on a Customer Behavior Model	Korea Institute of Industrial Technology	46,990	7/1/2017	12/31/2019
5/31/2019	Kim, Kwang	Mechanical Engineering	Biomimetic Underwater-Robot with Interchangeable Sensors	Savannah River Nuclear Solutions, LLC - FPT	188,768	8/1/2019	7/31/2020
5/31/2019	Kim, Kwang	Mechanical Engineering	Soft-Robots Housing Smart Preventive IR-Based Inspection System	Savannah River Nuclear Solutions, LLC - FPT	299,961	8/1/2019	7/31/2020
	Co-PI Moon , Jaeyun	Mechanical Engineering					
6/7/2019	Zhao, Hui	Mechanical Engineering	Development of a Multi-Scale Mathematical Model for Chip-Based Chromatography	National Institutes of Health	71,805	8/10/2018	5/31/2020
6/5/2019	Sun, Ke-Xun	Elec & Comp Engineering	Neutron Radiation Hardness of GaN and Wide Bandgap Semiconductors - Task 35	Mission Support and Test Services, LLC	42,649	1/22/2019	9/30/2019
6/25/2019	Baker, R. Jacob	Elec & Comp Engineering	High Dynamic Range Real-Time LIDAR Digitizer and Processor	Freedom Photonics LLC/FPT	29,999	1/1/2020	6/30/2020
12/6/2018	Barzilov, Alexander	Mechanical Engineering	Multi-Model, Multi-Energy Approach for Neutron Interrogation of Spent Fuel - Task 34	Mission Support and Test Services, LLC	44,000	12/13/2018	9/30/2019
12/11/2018	Barzilov, Alexander	Mechanical Engineering	Nuclear Engineering Fellowship Program at UNLV	Nuclear Regulatory Commission	90,000	9/30/2015	9/29/2019
12/10/2018	Muthukumar, Venkatesan	Elec & Comp Engineering	Resilient Operation of Distribution Feeders with Adversarial Machine Learning-Based Solar Forecasting - Task 1	U.S. Department of Energy	280,000	7/1/2019	6/30/2022
12/11/2018	Stefik, Andy	Computer Science	Research Supporting Multisensory Engagement by Blind, Visually Impaired, and Sighted Students to Advance Integrated Learning of Astronomy and Computer Science	Associated Universities, Inc	8,000	10/1/2016	8/31/2019
12/11/2018	Marti, Erica	Civil & Environmntl Eng & Const	Optimized Biochar for Contaminant Removal in Water	Environmental Protection Agency	25,000	8/15/2019	8/14/2020
	Co-PI Moon , Jaeyun	Mechanical Engineering					
12/3/2018	Tian, Ying	Civil & Environmntl Eng & Const	REU: Time-Dependent Response of Reinforced Concrete Buildings Near Collapse	National Science Foundation	8,000	7/1/2018	6/30/2021
12/3/2018	Moon, Jaeyun	Center for Energy Research	Research Infrastructure Development for Microstructure-Oriented Manufacturing of Thermoelectric Materials for Space Power Applications	University of Nevada, Reno	9,111	10/1/2018	6/30/2019
12/3/2018	Morris, Brendan	Transportation Research Center	UTC - PROCOMAN Institute (Proactive Congestion Management)	University of Nevada, Reno	250,000	3/1/2019	2/28/2021
	Co-PI Kachroo, Pushkin	Transportation Research Center					
	Co-PI Trabia, Mohamed	Mechanical Engineering					

12/13/2018	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	12,732	10/1/2016	3/31/2019
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
12/20/2018	Trabia, Mohamed	Mechanical Engineering	Development of Structural Metals with Superior Impact Resistance Using Laser Processing for Advanced NASA Applications	University of Nevada, Reno	10,136	10/1/2018	6/30/2019
	Co-PI O'Toole, Brendan	Mechanical Engineering					
11/7/2018	Yang, Mei	Elec & Comp Engineering	Pilots and Feasibility Studies: Enhance Secondary Female Students: Academic Self-Concept in Engineering Fields through Constructivist Learning Environment	National Science Foundation	288,819	4/1/2019	3/31/2021
	Co-PI Muthukumar, Venkatesan	Elec & Comp Engineering					
	Co-PI Zhang, Shaoran	Teaching and Learning					
12/20/2018	Trabia, Mohamed	Mechanical Engineering	Development of Structural Metals with Superior Impact Resistance Using Laser Processing for Advanced NASA Applications	Univ. of Nevada, Reno	10,136	10/1/2018	6/30/2019
	Co-PI O'Toole, Brendan	Mechanical Engineering					
12/3/2018	Moon, Jaeyun	Center for Energy Research	Research Infrastructure Development for Microstructure-Oriented Manufacturing of Thermoelectric Materials for Space Power Applications - Match	Univ. of Nevada, Reno	9,112	10/1/2018	6/30/2019
11/16/2018	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	14,191	10/1/2016	3/31/2019
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
12/3/2018	Kachroo, Pushkin	Transportation Research Center	Designing a Reliable efficient Agile and Multimodal Transportation System for Tourists and Urban Residents (DREAM ToUR)	University of Central Florida	400,000	3/1/2019	9/30/2022
	Co-PI Morris, Brendan	Elec & Comp Engineering					
12/18/2018	Zhao, Hui	Mechanical Engineering	Bioinspired Omnidirectional Broadband Light-Management Anti-Soiling Ordered-Disorder Nanostructures for Stable and Durable Organic Thin Film Photovoltaics	National Science Foundation	315,297	8/1/2019	7/31/2022
12/11/2018	Gerrity, Daniel	Civil & Environmntl Eng & Const	Laboratory-Scale Integration of Chemical and Molecular Techniques to Advance Ozone-Biofiltration in Potable Reuse Applications	U.S. Bureau of Reclamation	149,847	8/1/2019	1/31/2021
	Co-PI Khan, Eakalak	Civil & Environmntl Eng & Const					
12/13/2018	Gerrity, Daniel	Civil & Environmntl Eng & Const	DPR-1: Quantitative Microbial Risk Assessment Implementation	Trussell Technologies, Inc	37,500	1/4/2019	11/1/2020
10/11/2018	Park, Jee Woong	Civil & Environmntl Eng & Const	Real-Time Hybrid Mining Site Stability Monitoring by Sensor-Based Analysis Model Updating and Prediction	University of Hawaii at Manoa-FPT	85,354	7/1/2020	6/30/2021
	Co-PI Tian, Ying	Civil & Environmntl Eng & Const					
11/20/2018	Zhao, Hui	Mechanical Engineering	Bioinspired Super-Hydrophobic Surfaces with Excellent Mechanochemical Robustness and Pressure Resistance	National Science Foundation	394,688	8/1/2019	7/31/2022
	Co-PI Zhai, Shengjie	Mechanical Engineering					
11/29/2018	Culbreth, William	Mechanical Engineering	Nuclear Engineering Doctoral Fellowship Program at UNLV	Nuclear Regulatory Commission	399,690	8/19/2019	8/18/2023
	Co-PI Barzilov, Alexander	Mechanical Engineering					
10/2/2018	Marti, Erica	Civil & Environmntl Eng & Const	Closed-Captioning for SISTEM Videos	NV System of Higher Education	11,200	12/1/2018	5/31/2019
10/2/2018	Batista, Jacimaria	Civil & Environmntl Eng & Const	Research and Education Activities Using the Nevada Solar-Water Express for Industrial Wastewater and Brackish Water Treatment and Reuse	EPSCoR/National Science Foundation	35,788	12/1/2018	5/31/2019
10/3/2018	O'Toole, Brendan	Ctr for Materials & Structures	Composite Witness Panel Testing - Task 7	Lockheed Martin Corporation-FPT	31,680	12/10/2018	5/31/2019
9/19/2018	Marti, Erica	Civil & Environmntl Eng & Const	RET Site: STEMomics - Application of Molecular Microbiology, Bioinformatics and Computer Science Tools to Solve Environemtnal Engineering Problems	National Science Foundation	593,094	4/1/2019	3/31/2022
	Co-PI Gerrity, Daniel	Civil & Environmntl Eng & Const					
9/19/2018	Paz-Cruz, Alexander	Transportation Research Center	Demand-Responsive Transverse Rumble Strips for Advanced Railway Traffic Safety	Transportation Research Board	99,956	1/1/2019	12/31/2019
	Co-PI Morris, Brendan	Elec & Comp Engineering					
	Co-PI Trabia, Mohamed	Mechanical Engineering					
9/14/2018	Asadollahipajouh, Mojdeh	Civil & Environmntl Eng & Const	Determination of Zone of Intrusion Envelopes under MASH Impact Conditions for Rigid Barrier	University of Nebraska-Lincoln	239,571	9/1/2018	6/20/2021
9/14/2018	Moon, Jaeyun	Mechanical Engineering	Management of Organic and Inorganic Waste Streams at the Tesla Gigafactory - Task 5	Tesla Motors	61,765	9/17/2018	5/17/2019
9/13/2018	Baker, R. Jacob	Elec & Comp Engineering	Tiled Silicon-Photomultiplier Array Read-Out Integrated Circuit	Freedom Photonics LLC/FPT	29,999	7/27/2018	1/18/2019
9/12/2018	Wang, Zhiyong	Ctr for Materials & Structures	3D Printed Drill Plate Optimization - Task 6	Lockheed Martin Corporation-FPT	39,938	6/26/2017	6/30/2019
	Co-PI O'Toole, Brendan	Mechanical Engineering					
9/18/2018	Batista, Jacimaria	Civil & Environmntl Eng & Const	Preliminary Investigation of Factors Hindering Biodegradation in the Deeper Horizon of the Galleria Road Area (NERT) Site, Henderson	Tetra Tech, Inc	113,216	9/25/2018	6/30/2019
9/24/2018	Marti, Erica	Center for Energy Research	INFEWS/T2: Assessment of the use of Solar Energy in the Photocatalytic Treatment of Wastewater Effluents for Resue in Indoor Agriculture Food Production	Desert Research Institute	1,286,107	6/1/2019	5/31/2022

	Co-PI	Moon , Jaeyun	Mechanical Engineering						
10/9/2018		Karakouzian, Moses	Civil & Environmntl Eng & Const	Design of Lateral Confluences of Flood Control Channels	Clark County Flood Control District	148,913	6/1/2017	12/31/2019	
	Co-PI	Hayes, Donald	Civil & Environmntl Eng & Const						
10/29/2018		Venkat, Rama	Dean, College of Engineering	UNLV-TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	8,529	10/1/2016	9/30/2018	
	Co-PI	Bernacki, Matthew	Educ Psy & Higher Edu						
	Co-PI	Nasoz, Fatma	Computer Science						
	Co-PI	Watkins, Helga	Dean, College of Fine Arts						
10/29/2018		Venkat, Rama	Dean, College of Engineering	UNLV-TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	7,953	10/1/2016	3/31/2019	
	Co-PI	Bernacki, Matthew	Educ Psy & Higher Edu						
	Co-PI	Nasoz, Fatma	Computer Science						
	Co-PI	Watkins, Helga	Dean, College of Fine Arts						
10/31/2018		Zhao, Hui	Mechanical Engineering	Repurposing Optical Disc Technologies for Digital Programmable Quasi-Random Broad-Band Omnidirectional Photonic Nanostructures	National Science Foundation	346,362	8/1/2019	7/31/2022	
10/31/2018		Zhao, Hui	Mechanical Engineering	Anomalous Electric Field Induced Flows around Colloidal Particles and Their Impacts on Particle Assembly	National Science Foundation	323,937	8/1/2019	7/31/2022	
10/24/2018		Batista, Jacimaria	Civil & Environmntl Eng & Const	ZVI, Citric Acid and Chloroform: Additional Tasks added to the Bench-Scale Bioremediation Studies of UNIT4 Area, (NERT) Site, Nevada	Tetra Tech, Inc	9,000	8/1/2018	9/1/2019	
8/31/2018		Oh, Paul	Mechanical Engineering	INSPIRE: Mobile-Manipulating UAV's for Sensor Installation, Bridge Inspection and Maintenance (AS-1)	Missouri University of Science and Technology	40,556	3/1/2017	3/31/2019	
7/10/2018		Paz-Cruz, Alexander	Transportation Research Center	The Impact of Information Sources on Consumer Understanding of Automated Driving Systems	AAA Foundation for Traffic Safety	142,937	1/1/2019	12/31/2019	
	Co-PI	Coughenour, Courtney	Environ & Occup Health						
	Co-PI	Kim, Si Jung	Dean, College of Engineering						
	Co-PI	Singh, Ashok	Hotel Management						
7/5/2018		Park, Jee Woong	Civil & Environmntl Eng & Const	Automated Steel Crack Detection Using Emerging Technology	Association for Iron & Steel Technology	97,417	10/1/2018	9/30/2021	
7/6/2018		Venkat, Rama	Dean, College of Engineering	UNLV-TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	45,226	10/1/2016	9/30/2018	
	Co-PI	Bernacki, Matthew	Educ Psy & Higher Edu						
	Co-PI	Nasoz, Fatma	Computer Science						
	Co-PI	Watkins, Helga	Dean, College of Fine Arts						
7/24/2018		Batista, Jacimaria	Civil & Environmntl Eng & Const	Removal of Ammonia and Fluoride from Sulfidic Caustic Solution (SCS) from Oil Processing	Radian Chemicals	10,752	3/15/2015	2/28/2019	
7/18/2018		Kim, Si Jung	Dean, College of Engineering	CAREER: The Story Stethoscope: A Wearable Storyteller to Map Independence Patterns During Early Childhood Development	National Science Foundation	471,786	7/12/2019	7/11/2024	
7/17/2018		Sherman, Ryan	Civil & Environmntl Eng & Const	CAREER: Predicting Heat-Affected Zone Fracture Toughness of Additive Manufacturing Repair and Retrofit	National Science Foundation	539,536	7/1/2019	6/30/2024	
7/18/2018		Choi, Jin Ouk	Civil & Environmntl Eng & Const	CAREER: Building Module Transport: Implementing Drones for Improved Logistics	National Science Foundation	500,000	1/1/2019	12/31/2023	
7/31/2018		Zhai, Shengjie	Mechanical Engineering	Yr 6 CTR-IN Pilot Grant - A Low-Cost, Quick Turnout, Mobile-Virtual Reality-Based Platform for Risk Assessment & Self-Diagnosis of Cardiovascular Health of Disadvantaged & Underserved Population	Univer of Nevada, Las Vegas	66,000	8/1/2018	6/30/2019	
	Co-PI	Jiang, Yingtao	Elec & Comp Engineering						
	Co-PI	Tran, Dieu-My	School of Nursing						
8/6/2018		Kim, Kwang	Mechanical Engineering	PIRE: Advanced Artificial Muscles for International and Globally Competitive Research and Education in Soft Robotics	National Science Foundation	800,424	10/1/2015	9/30/2020	
	Co-PI	Oh, Paul	Mechanical Engineering						
8/17/2018		Park, Jee Woong	Civil & Environmntl Eng & Const	Real-Time Monitoring of Respirable Crystalline Silica (RCS) through Integration of FTIR, Location Tracking and BIM	University of Houston-FPT	112,952	2/1/2019	1/31/2021	
8/15/2018		Kim, Kwang	Mechanical Engineering	Establishment of a Volumetric 3-Component Velocimetry System and Flow Channel	U.S. Army Research Office	292,932	4/30/2019	4/29/2020	
	Co-PI	Zhao, Hui	Mechanical Engineering						
8/22/2018		Kim, Si Jung	Dean, College of Engineering	REU Site: Entertainment Engineering and Hospitality Technology	National Science Foundation	361,209	2/1/2019	1/31/2022	
	Co-PI	Erdem, Mehmet	Hotel Management						
8/27/2018		Jiang, Yingtao	Elec & Comp Engineering	Intelligent Obstacle Detection and Early Warning System Based on Multimodal Sensor Fusion and Machine Learning for Proactive Accident Prevention at Railroad Crossings	U.S. Department of Transportation	270,652	1/1/2019	12/31/2020	
	Co-PI	Teng, Hualiang	Civil & Environmntl Eng & Const						
8/27/2018		Jiang, Yingtao	Elec & Comp Engineering	Development of UAV-Based Rail Track Irregularity Inspection	U.S. Department of Transportation	300,141	1/1/2019	12/31/2020	
	Co-PI	Teng, Hualiang	Civil & Environmntl Eng & Const						
8/27/2018		Barzilov, Alexander	Mechanical Engineering	Consortium for Nonproliferation Enabling Technologies and Innovation (CNETI) led by Purdue	Purdue University	1,388,616	6/1/2019	5/31/2024	
8/25/2018		Barzilov, Alexander	Mechanical Engineering	Consortium for Enabling Technologies and Innovations (CETI)) led by Penn State University	Pennsylvania State University	1,249,569	6/1/2019	5/31/2024	
	Co-PI	Bansal, Shubhra	Mechanical Engineering						
	Co-PI	Yim, Woosoon	Mechanical Engineering						

8/15/2018	Kim, Kwang	Mechanical Engineering	PIRE: Advanced Artificial Muscles for International and Globally Competitive Research and Education in Soft Robotics	National Science Foundation	594,933	10/1/2015	9/30/2020
	Co-PI Oh, Paul	Mechanical Engineering					
8/31/2018	Stefik, Andy	Computer Science	ECR DCL Level 2: Perceptual and Implementation Strategies for Knowledge Acquisition of Digital Tactile Graphics for Blind and Visually Impaired Students	National Science Foundation	34,528	1/15/2017	12/31/2019
8/15/2018	Trabia, Mohamed	Mechanical Engineering	REU Site: Integrating Engineering, Biomechanics and Medicine for Stimulating the Participation of Underrepresented Groups in Research-Intensive Healthcare Careers	National Science Foundation	359,824	3/1/2019	2/28/2022
	Co-PI Dufek, Janet	Kinesiology and Nutrition Sci					
	Co-PI Mulvenon, Sean	Dean, College of Education					
	Co-PI Watson, Doris	Educ Psy & Higher Edu					
8/29/2018	Park, Jee Woong	Civil & Environmntl Eng & Const	Haptic Feedback System for Augmental Safety Perception and Reaction of Individual Workers in Highway Work Zones	Transportation Research Board	124,951	3/1/2019	8/31/2020
	Co-PI Paz-Cruz, Alexander	Civil & Environmntl Eng & Const					
8/27/2018	Teng, Hualiang	Civil & Environmntl Eng & Const	Railroad Turnout Repair Using 3D Printing Technology	U.S. Department of Transportation	257,460	1/1/2019	12/31/2020
	Co-PI Wang, Zhiyong	Mechanical Engineering					
8/25/2018	Oh, Paul	Mechanical Engineering	Cognizant Companions: Foundations of Trusted Collaborative Decision Making in Human-Humanoid Teams	Northeastern University	450,000	9/30/2018	9/29/2021
8/10/2018	Paz-Cruz, Alexander	Transportation Research Center	Development and Testing of a Directional Striping Inset	Nevada Department of Transportation	197,855	10/1/2018	12/31/2019
	Co-PI Morris, Brendan	Elec & Comp Engineering					
	Co-PI Trabia, Mohamed	Mechanical Engineering					
8/8/2018	Yang, Mei	Elec & Comp Engineering	CEEGirls: Engaging Secondary Female Students in Engineering Fields through Team- and Challenge-Based Learning Models	National Science Foundation	406,762	3/1/2019	2/28/2022
	Co-PI Batista, Jacimaria	Civil & Environmntl Eng & Const					
	Co-PI Zhang, Shaoan	Teaching and Learning					
8/27/2018	Sherman, Ryan	Civil & Environmntl Eng & Const	Characterization of C-18150 Additively Manufactured Material	EPSCoR/National Aeronautics & Space Administration	52,500	12/1/2018	11/30/2019
	Co-PI O'Toole, Brendan	Mechanical Engineering					
	Co-PI Trabia, Mohamed	Mechanical Engineering					
8/27/2018	Sherman, Ryan	Civil & Environmntl Eng & Const	Characterization of GRCop-42 Additively Manufacturer Material	EPSCoR/National Aeronautics & Space Administration	52,500	12/1/2018	11/30/2019
	Co-PI O'Toole, Brendan	Mechanical Engineering					
	Co-PI Trabia, Mohamed	Mechanical Engineering					
8/28/2018	Morris, Brendan	Elec & Comp Engineering	Costumer Discovery for Demand-Responsive Transverse Rumble Strips	National Science Foundation	50,000	9/15/2018	2/28/2019
8/10/2018	Schill, Robert	Elec & Comp Engineering	Study of Electron Beam Channeling in the Z-pinch of a Dense Plasma Focus	Mission Support and Test Services, LLC	97,781	9/1/2018	8/31/2019
8/31/2018	Sherman, Ryan	Civil & Environmntl Eng & Const	A High-Toughness Approach to Fracture Critical Members: Establishing Rational Inspection Criteria	American Institute of Steel Construction	200,000	5/1/2019	4/30/2023
8/16/2018	Marti, Erica	Civil & Environmntl Eng & Const	Enhancing STEM Education and Research Infrastructure through Acquisition of a Concentrated Solar-Powered Water Remediation Unit	U.S. Army Research Office	490,736	5/1/2019	4/30/2020
	Co-PI Boehm, Robert	Center for Energy Research					
	Co-PI Khan, Eakalak	Civil & Environmntl Eng & Const					
	Co-PI Moon, Jaeyun	Mechanical Engineering					
8/23/2018	Marti, Erica	Civil & Environmntl Eng & Const	WRF 4916: The Impact of Pre-Chlorination and GAC Treatment on DBP Formation and Overall Toxicity in Drinking Water	HDR Engineering, Inc.	90,000	8/1/2019	7/31/2022
9/11/2018	Zhan, Justin (Zhijun)	Computer Science	CDnet: Community Detection in Large Networks	U.S. Army Research Office	70,000	9/10/2018	9/9/2019
8/17/2018	Zhan, Justin (Zhijun)	Computer Science	REU Site: Research Experiences for Undergraduates in Big Data	National Science Foundation	359,096	2/1/2019	1/31/2022
10/2/2018	Marti, Erica	Civil & Environmntl Eng & Const	K-12 Outreach in Las Vegas	NV System of Higher Education	4,053	12/1/2018	5/31/2019
EGR	139			College Total	42,637,051		
3/21/2019	Serafica, Reimund	School of Nursing	Cultural Considerations in Advancing Dietary Assessment and Education Among Filipino Immigrants in Las Vegas	Robert Wood Johnson Foundation	295,614	9/1/2019	8/31/2022
	Co-PI Morris, Brendan	Elec & Comp Engineering					
2/9/2019	Reyes, Andrew T	School of Nursing	Promoting Resilience through Mindfulness Among College Student Veterans with Posttraumatic Stress Disorder	Sigma Theta Tau International Honor Society of Nursing	2,500	3/19/2019	3/20/2020
Kearney, Christopher	Co-PD/PI	Psychology					
	Co-PI Muthukumar, Venkatesan	Elec & Comp Engineering					
10/9/2018	Tran, Dieu-My	School of Nursing	MOBILE Intervention in College Students: An Exploratory Study	National Institutes of Health	411,125	7/1/2019	6/30/2021
	Co-PI Basu, Arpita	Kinesiology and Nutrition Sci					
	Co-PI Dingley, Catherine	School of Nursing					
	Co-PI Zhai, Shengjie	Mechanical Engineering					
7/31/2018	Ebersole, Jeffrey	School of Dental Medicine	Yr 6 CTR-IN Pilot Grant - The Exosome Alters Periodontal Disease Extent/Severity in Minority Populations	Univer of Nevada, Las Vegas	65,993	8/1/2018	7/31/2019
	Co-PI Marti, Erica	Civil & Environmntl Eng & Const					

6/10/2019	Co-PI Moonie, Sheniz	Environ & Occup Health						
	Ebersole, Jeffrey	School of Dental Medicine	Effect of Environmental Stressors on Oral Biofilm Growth, Disease Treatment and Enamel	Teledyne Brown Engineering, Inc-FPT	379,820	4/11/2019	11/11/2020	
	Co-PI Zhao, Hui	Mechanical Engineering						
11/13/2018	Deniz, Hasan	Teaching and Learning	Reading Integrated with Science and Engineering (RISE)	National Science Foundation	449,876	8/1/2019	7/31/2022	
	Co-PI Trabia, Mohamed	Mechanical Engineering						
6/17/2019	Rennels, Jennifer	Psychology	Assessing Potential Early Manifestations of Implicit Bias via Infants' Facial Actions	National Institutes of Health	149,500	5/17/2020	5/16/2022	
	Co-PI Morris, Brendan	Elec & Comp Engineering						
11/13/2018	Poineau, Frederic	Chemistry & Biochemistry	Benchtop XAFS Instrument for Radioelement Speciation	U.S. Department of Energy	254,605	8/1/2019	7/31/2020	
	Co-PI Barzilov, Alexander	Mechanical Engineering						
5/31/2019	Nicholl, Michael	Geoscience	In Situ Remediation of the Deep Vadose Zone: Coupled Physical and Numerical Experimentation	Savannah River Nuclear Solutions, LLC - FPT	297,514	8/1/2019	7/31/2020	
Co-PI	Batista, Jacimaria	Civil & Environmntl Eng & Const						
Co-PI	Huang, Shichun	Geoscience						
4/5/2019	Huang, Shichun	Geoscience	Geochemical Investigation of Potential Precipitate Formation in the Unit 4 Area of the NERT Site, Henderson, Nevada	Tetra Tech, Inc	204,359	5/1/2019	12/31/2019	
	Co-PI Batista, Jacimaria	Civil & Environmntl Eng & Const						
3/27/2019	Heske, Clemens	Chemistry & Biochemistry	Next Generation Thin Films for High Efficiency Tandem Solar Cells	University of Delaware	600,000	8/1/2019	7/31/2021	
	Co-PI Bansal, Shubhra	Mechanical Engineering						
3/18/2019	Modi, Kush	Internal Medicine	Pulmonary and Critical Care Medicine Expansion	Governor's Office Of Science, Innovation and Technology	80,000	6/14/2018	6/13/2020	
2/6/2019	Yoo, Ji	Internal Medicine	Nevada Interprofessional Healthy Aging Network (NIHAN) Project	Health Resources & Services Admin.	749,987	7/1/2019	6/30/2020	
	Co-PI Barzilov, Alexander	Mechanical Engineering						
	Co-PI Dounis, Georgia	School of Dental Medicine						
2/1/2019	Schiller, Martin	NV Inst Personalized Medicine	The GigaAssay High-Throughput Technology for Function	National Institutes of Health	2,435,294	9/1/2019	8/31/2024	
	Co-PI Nasoz, Fatma	Computer Science						
	Co-PI Wu, Qing	Environ & Occup Health						
3/25/2019	Wu, Qing	NV Inst Personalized Medicine	Creating Personalized Reference Ranges of Bone Density to Reduce Healthcare Disparities in Osteoporosis Diagnosis and Treatment	National Institutes of Health	1,868,750	7/1/2020	6/30/2025	
	Co-PI Han, Mira	School of Life Sciences						
	Co-PI Nasoz, Fatma	Computer Science						
2/26/2019	Wu, Qing	NV Inst Personalized Medicine	Personalized Fracture Risk Assessment Tool	National Institutes of Health	1,868,750	1/1/2020	12/31/2024	
	Co-PI Han, Mira	School of Life Sciences						
	Co-PI Nasoz, Fatma	Computer Science		Grand Total	52,750,738			