

10/4/2019	Proposals		FY 19-20 Proposals				
Submit Date	PI Name	Dept	Project Title	Agency	Total	Proposed Start Date	Proposed End Date
7/13/2019	Park, Jee Woong	Civil & Envirnmntl Eng & Const	Human-Augmented Technology Interaction for Improving Construction Quality Control	NV Department of Transportation	250,129	1/1/2020	6/30/2022
	Co-PI Kim, Si Jung	Dean, College of Engineering					
7/13/2019	Khan, Eakalak	Civil & Envirnmntl Eng & Const	A Low-Cost Solar Remediation to Make Oil & Gas Produced Water Biologically Treatable	Focal Technologies, Inc	548,044	1/1/2020	12/31/2021
	Co-PI Marti, Erica	Civil & Envirnmntl Eng & Const					
7/13/2019	Moon, Jaeyun	Center for Energy Research	Cold Spray Deposited Molten Salt Corrosion-Resistant Coatings for Concentrating Solar Power Components	University of Nevada, Reno	239,850	2/1/2020	1/31/2023
7/1/2019	Zhan, Justin (Zhijun)	Computer Science	Establishing an Army Educational Outreach Program Site in Data Science and Engineering at University of Nevada, Las Vegas	Technology Student Association	36,756	6/1/2016	9/30/2019
7/17/2019	Oh, Paul	Mechanical Engineering	Robotic in Construction - Task 6	Tesla Motors	132,377	7/22/2019	12/31/2019
	Co-PI Choi, Jin Ouk	Civil & Envirnmntl Eng & Const					
7/17/2019	Khan, Eakalak	Civil & Envirnmntl Eng & Const	Designing Ionic Liquids Based Adsorbent for Treating Dimethylsilanedoil Contaminated Water in International Space Station	National Aeronautics and Space Administration	98,438	9/10/2019	9/9/2020
7/17/2019	Moon, Jaeyun	Center for Energy Research	CAREER: Multi-Physical Behavior of Printed Thermoelectric Generator with Compliant Structure	National Science Foundation	500,001	7/1/2020	6/30/2025
7/26/2019	Kim, Kwang	Mechanical Engineering	PIRE: Advanced Artificial Muscles for International and Globally Competitive Research and Education in Soft Robotics	National Science Foundation	198,928	10/1/2015	9/30/2020
	Co-PI Oh, Paul	Mechanical Engineering					
7/25/2019	Asadollahipajouh, Mojdeh	Ctr for Materials & Structures	Design and Optimization of Bolted Connections for Blast Hazards Mitigation	Minority Serving Inst Sci, Tech, Eng & Math R&D Consortium	286,010	8/20/2019	8/19/2020
	Co-PI Trabia, Mohamed	Mechanical Engineering					
	Co-PI O'Toole, Brendan	Mechanical Engineering					
7/13/2019	Shrestha, Pramen	Civil & Envirnmntl Eng & Const	Traveler Expectations and Future Use of Highway Rest Areas in the Western United States	NV Department of Transportation	199,398	8/15/2019	1/15/2021
7/22/2019	James, David	Civil & Envirnmntl Eng & Const	Evaluation of Approaches to Determine Mixing and Assimilation of Reuse Effluent	U.S. Bureau of Reclamation	20,000	6/2/2017	9/30/2020
	Co-PI Stephen, Haroon	Civil & Envirnmntl Eng & Const					
	Co-PI Hayes, Donald	Civil & Envirnmntl Eng & Const					
	Co-PI Gerrity, Daniel	Civil & Envirnmntl Eng & Const					
7/24/2019	Bansal, Shubhra	Center for Energy Research	Maximizing Long-Term Power Output for Thin-Film Photovoltaics: Quantification of Interface and Bulk Degradation Mechanisms via In-Situ Analyses	U.S. Department of Energy	3,147,559	1/1/2020	12/31/2022
7/31/2019	Jo, Ju-Yeon	Computer Science	Establishing CyberCorps Scholarship for Service Program at University of Nevada, Las Vegas	National Science Foundation	2,777,470	7/1/2020	6/30/2025
	Co-PI Taghva, Kazem	Computer Science					
	Co-PI Kim, Yoohwan	Computer Science					
8/8/2019	O'Toole, Brendan	Ctr for Materials & Structures	Robotics Academy of Nevada and High School Team Mentoring	Nevada Department of Education	225,000	3/1/2019	8/31/2020
8/8/2019	O'Toole, Brendan	Ctr for Materials & Structures	Studying Manufacturability of Markforged Metal X 3D Printer	Universal Technology Corporation-FPT	10,000	8/20/2019	6/30/2020
8/8/2019	Boehm, Robert	Center for Energy Research	Technical Support and Maintenance of the NV RTC - Supplement to Regional Test Center Phase III	Sandia National Laboratories	230,859	3/14/2016	9/30/2020
8/26/2019	Baker, R. Jacob	Elec & Comp Engineering	Improved Quantum Efficiency Photo-Detector	Freedom Photonics LLC/FPT	44,992	5/14/2019	11/13/2019
8/13/2019	Breen, Erin	Transportation Research Center	Vulnerable Road Users Project	Nevada Office of Traffic Safety	150,000	7/1/2018	6/30/2021
8/26/2019	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	11,660	10/1/2018	9/30/2020
8/8/2019	Baker, R. Jacob	Elec & Comp Engineering	Tiled Silicon-Photomultiplier Array Read-Out Integrated Circuit	Freedom Photonics LLC/FPT	225,238	8/8/2019	8/7/2021
8/13/2019	Yfantis, Evangelos	Computer Science	Developing and Testing Innovations: A Virtual Reality Approach for Learning Computational Competencies for Latino Youth	National Science Foundation	367,946	10/1/2019	9/30/2022
	Co-PI Cole, Merryn	Teaching and Learning					
8/28/2019	Morris, Brendan	Transportation Research Center	REU Site: Smart Cities - Intelligent, Safe and Secure Mobility	National Science Foundation	405,000	6/1/2020	8/31/2023
	Co-PI Harris, Sarah	Elec & Comp Engineering					
8/23/2019	Batista, Jacimaria	Civil & Envirnmntl Eng & Const	Extension of Bench-Scale Testing for Unit 4 Source Area Bioremediation Treatability Study: Column Studies with Molasses as Electron Donor; and Investigation of Precipitates	Tetra Tech, Inc	178,691	8/15/2019	1/31/2020

8/27/2019	Choi, Jin Ouk	Civil & Envirnmntl Eng & Const	CAREER: Integrated Research and Education for Professional Identity Development in Under Graduate Architecture, Engineering and Construction (AEC) Women	North Dakota State University- FPT	18,300	5/1/2019	4/30/2023
8/19/2019	Yang, Mei	Elec & Comp Engineering	Engaging Secondary Female Students in Ubiquitous Intelligence and Computing through Constructive Learning Environment	National Science Foundation	399,999	4/1/2020	3/31/2023
8/29/2019	Co-PI Muthukumar, Venkatesan Co-PI Zhang, Shaoan Taghva, Kazem	Elec & Comp Engineering Teaching & Learning Computer Science	RII Track-1: Harnessing the Data Revolution for Fire Science	EPSCoR/National Science Foundation	4,015,798	7/1/2020	6/30/2025
8/22/2019	Co-PI Stephen, Haroon Boehm, Robert	Civil & Envirnmntl Eng & Const Elec & Comp Engineering Center for Energy Research	Regional Test Center Phase III	Sandia National Laboratories	78,026	3/14/2016	9/30/2019
9/23/2019	Barzilov, Alexander	Mechanical Engineering	Nuclear Engineering Fellowship Program at UNLV	Nuclear Regulatory Commission	70,000	9/30/2015	9/29/2020
9/23/2019	Batista, Jacimaria	Civil & Envirnmntl Eng & Const	Pre-Treatment Investigation for Chemtreat Rinse Water, Nederland, Texas - Extension to Removal of Ammonia and Fluoride from Sulfidic Caustic Solution (SCS) from Oil Processing	Radian Chemicals	11,500	3/15/2015	12/31/2019
9/10/2019	Khan, Eakalak	Civil & Envirnmntl Eng & Const	Collaborative Research: IRES Track 1: International Research Experience for Students in Big Data Applications in Energy and Related Infrastructure	National Science Foundation	131,332	5/1/2020	4/30/2023
9/9/2019	Yim, Woosoon	Mechanical Engineering	IRES Track 1: UAS Based Low-altitude Radiation Mapping and Source Localization	National Science Foundation	299,683	7/1/2020	6/30/2023
9/18/2019	Co-PI Barzilov, Alexander Jiang, Yingtao	Mechanical Engineering Elec & Comp Engineering	Enhancing Critical Transitions of Engineering and Computer Science Students with Synergistic Curricular and Co-Curricular Activities: A Two-Year Navigator Project	National Science Foundation	2,487,431	5/1/2020	4/30/2025
9/18/2019	Co-PI Zhang, Shaoan Co-PI Rogers, Bryant Co-PI Garza, Tiberio Co-PI Ferrar, Anthony Kim, Yoohwan	Teaching and Learning Academic Enrichment Educ Psy & Higher Edu Dean, College of Engineering Computer Science	Investigation of Virtual Currency Usage in Terrorism	U.S. Department of Homeland Security	479,267	7/1/2020	6/30/2022
EGR	Co-PI Taghva, Kazem Co-PI Jo, Ju-Yeon 33	Computer Science Computer Science			<b>Total 18,275,682</b>		
7/13/2019	Rennels, Jennifer	Psychology	Assessing Potential Early Manifestations of Implicit Bias via Infants' Facial Actions	National Science Foundation	393,096	1/21/2020	1/20/2023
	<b>Co-PI Morris, Brendan</b>	<b>Elec &amp; Comp Engineering</b>					
10/4/2019	Moon, Jaeyun	Center for Energy Research	Develop Thermally Insulating and Mechanically Tough Materials for Enhanced Space Exploration	EPSCoR/National Aeronautics & Space Administration	215,722	8/1/2020	7/31/2023
10/4/2019	Moon, Jaeyun	Center for Energy Research	Self-Adapting Composite Coatings for Extreme Space Mechanism Applications for Future NASA Mission	EPSCoR/National Aeronautics & Space Administration	177,223	6/1/2020	5/31/2023
10/4/2019	Co-PI Kim, Eunja Yim, Woosoon	Physics and Astronomy Mechanical Engineering	Nanotechnology-Enabled Sensor Development for the Mars Drone to Perform Dust Emission Studies	EPSCoR/National Aeronautics & Space Administration	310,694	7/1/2020	6/30/2023
10/4/2019	Trabia, Mohamed	Dean, College of Engineering	IGE: A Pathway to Graduate Studies	California State University, Northridge	178,497	7/1/2020	6/30/2023
10/4/2019	Trabia, Mohamed	Mechanical Engineering	Development of Metal Matrix Nanocomposite Coatings with Superior Durability Using Laser Processing for NASA Space Applications	EPSCoR/National Aeronautics & Space Administration	355,338	9/1/2020	8/31/2023
10/4/2019	Co-PI O'Toole, Brendan Stephen, Haroon	Mechanical Engineering Civil & Envirnmntl Eng & Const	UAS and Satellite Sensing for Scaling of Wildland Fire Processes and Effects	EPSCoR/National Aeronautics & Space Administration	189,740	9/1/2020	8/31/2023
10/4/2019	Kim, Si Jung	Dean, College of Engineering	Design and Development of Autonomous Indoor Flight Control for the ADR 2019	Ajou University Industry-Academic Cooperation Foundation	20,474	7/1/2019	12/31/2019
10/4/2019	Kim, Kwang	Mechanical Engineering	Biomimetic Soft Robots for Aerospace Applications	EPSCoR/National Aeronautics & Space Administration	403,442	7/1/2020	6/30/2023
10/4/2019	Khan, Eakalak	Civil & Envirnmntl Eng & Const	Engineering an Ecosystem for Life Support on Mars	EPSCoR/National Aeronautics & Space Administration	292,528	6/1/2020	5/31/2023

10/18/2019	Sun, Ke-Xun	Elec & Comp Engineering	Photoelectron Measurement and Pulsed Laser Deposition for GaN Photocathode	Kyma Technologies Inc	59,918	1/1/2020	9/30/2020
10/22/2019	Jo, Ju-Yeon	Computer Science	GenCyber Summer Camp at University of Nevada, Las Vegas	National Security Agency	99,995	3/1/2020	2/28/2021
10/16/2019	Co-PI Kim, Yoohwan Kim, Si Jung	Computer Science Dean, College of Engineering	Investigation of Show Production Procedures and Characteristics	Korea Institute of Industrial Technology	56,841	6/1/2019	12/31/2019
10/22/2019	Kang, Mingon	Computer Science	Research on ICT Core Technologies and Cultivation of Innovative Talents to Lead Next-Generation Smart Healthcare	Hanyang University-ERICA Campus	35,318	7/1/2019	12/31/2020
11/1/2019	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	26,855	10/1/2016	9/30/2020
10/24/2019	Co-PI Nasoz, Fatma Co-PI Bernacki, Matthew Co-PI Watkins, Helga Zhao, Hui	Computer Science Educ Psy & Higher Edu Dean, College of Fine Arts Mechanical Engineering	Bioinspired Durable Radio-frequency Transparent Graphene-enabled Anti-icing Super-hydrophobic Coatings	Naval Surface Warfare Center	147,398	8/1/2020	7/31/2022
10/24/2019	Zhao, Hui	Mechanical Engineering	Nanoparticle Assembly at Liquid-air Interfaces Directed by the Electric Field and Spin Coating	National Science Foundation	467,290	9/1/2020	8/31/2023
10/29/2019	Co-PI Zhai, Shengjie Barzilov, Alexander	Mechanical Engineering Mechanical Engineering	Improved Method of Neutron Based Dual Mode Characterization of UXO and HME	Western Kentucky University-FPT	69,376	3/1/2020	2/28/2021
11/6/2019	Morris, Melissa	Mechanical Engineering	Collaborative Research: IUSE-HER: Cultivating Inclusive Identities of Engineers and Computer Scientists: Expanding Efforts to Infuse Inclusive Excellence in Undergraduate Curricula	Texas A&M Univ.	39,709	1/2/2020	7/1/2022
11/6/2019	Ferrar, Anthony	Dean, College of Engineering	The Agency Agency	VentureWell	30,000	5/1/2020	6/30/2023
11/1/2019	Bansal, Shubhra	Center for Energy Research	Performance and Stability of Novel Ph-free Halide-Chalcogenide Photoabsorbers for Optoelectronic Applications	National Science Foundation	299,504	8/1/2020	7/31/2023
11/12/2019	Baghzouz, Yahia	Elec & Comp Engineering	Optimization of Excess Solar and Storage Capacity for Grid Services	Nevada Energy-FPT	822,386	1/1/2020	12/31/2023
11/13/2019	Co-PI Chmaj, Grzegorz Marti, Erica	Elec & Comp Engineering Civil & Environmntl Eng & Const	Precursors and Control of Halogenated Acetonitriles	So. Nevada Water Authority	74,992	4/1/2020	9/30/2022
11/14/2019	Kim, Si Jung	Dean, College of Engineering	REU Site: Entertainment Engineering and Hospitality Technology	National Science Foundation	360,554	3/1/2020	2/28/2023
11/14/2019	Co-PI Erdem, Mehmet Co-PI Genova, Michael	Hotel Administration Dean, College of Fine Arts	Collaborative Research: Data Science for All	National Science Foundation	1,349,082	9/1/2020	8/31/2024
11/15/2019	Stefik, Andy Oh, Paul	Computer Science Mechanical Engineering	Integration of Autonomous Robotics for Plant-Based Systems in Deep Space	Lockheed Martin Corporation-FPT	96,292	11/1/2019	9/30/2020
11/11/2019	Choi, Jin Ouk	Civil & Environmntl Eng & Const	Achieving Higher Levels of Standardized Facility Design in the Upstream, Midstream and Mining (UMM) Commodity Market (Phase 2)	University of Texas, Austin	78,990	5/1/2017	9/30/2020
11/21/2019	Teng, Hualiang	Civil & Environmntl Eng & Const	Tier 1 University Transportation Center on Rail Infrastructure (RailTeam)	U.S. Department of Transportation	1,420,000	12/6/2016	9/30/2022
11/25/2019	Barzilov, Alexander	Mechanical Engineering	Grating-Based Imaging-Scattering with Portable Neutron Generator	Adelphi Technology Inc	100,045	4/6/2020	3/31/2021
12/4/2019	Schill, Robert	Ctr Eng Matris Tech (EMITION)	DPF Sensor Placement - Task 39	Mission Support and Test Services, LLC	74,996	12/1/2019	9/2/2020
12/4/2019	Batista, Jacimaria	Civil & Environmntl Eng & Const	Chloroform Degradation and its Daughters - Extra Task to Extension of Bench-Scale Testing for Unit 4 Source Area Bioremediation Treatability Study: Column Studies with Molasses as Electron Donor; and	Tetra Tech, Inc	12,259	8/15/2019	2/29/2020
12/4/2019	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	38,855	10/1/2016	9/30/2020
12/17/2019	Co-PI Nasoz, Fatma Co-PI Bernacki, Matthew Co-PI Watkins, Helga Cho, Han-Jae (Jeremy)	Computer Science Educ Psy & Higher Edu Dean, College of Fine Arts Mechanical Engineering	Controlling Flow Instabilities in Reduced-Gravity Flow Boiling Using Surfactants	EPSCoR/National Aeronautics & Space Administration	96,250	7/1/2020	6/30/2021
12/11/2019	Co-PI Kim, Kwang Muthukumar, Venkatesan	Mechanical Engineering Elec & Comp Engineering	SCH:INT: Collaborative Research: Smart Stepper: An Assistive Technology to Enhance Foot Contact in Children Diagnosed with Idiopathic Toe Walking	Chapman University	209,364	6/1/2020	5/31/2023
12/11/2019	Zhao, Hui	Mechanical Engineering	Repurposing Optical Disc Technologies for Digital Programmable Quasi-Random Broad-Band Omnidirectional Photonic Nanostructures	National Science Foundation	478,212	9/1/2020	8/31/2023
	Co-PI Zhai, Shengjie	Mechanical Engineering					

12/16/2019	Kim, Yoohwan	Computer Science	Secure and Scalable Authentication System for DER	Electric Power Research Institute	165,000	12/1/2019	9/30/2020
12/19/2019	Co-PI Jo, Ju-Yeon Asadollahipajouh, Mojdeh	Computer Science Civil & Environmntl Eng & Const	Collaborative Research: We are Thriving: Challenging Negative Discourse Through Voices of Women in Project Teams	National Science Foundation	100,845	8/1/2020	7/31/2023
<b>EGR</b>	<b>36</b>				<b>Total 8,953,984</b>		
12/19/2019	Piotrowska-Jeziarska, Joanna	Office of Vice Provost	FY 2020 National Summer Transportation Institute (NSTI)	Nevada Department of Transportation	50,000	7/12/2020	7/25/2020
	<b>Co-PI Breen, Erin</b>	<b>Transportation Research Center</b>					
1/7/2020	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	24,306	10/1/2016	9/30/2020
1/13/2020	Co-PI Nasoz, Fatma Co-PI Bernacki, Matthew Co-PI Watkins, Helga Khan, Eakalak	Computer Science Educ Psy & Higher Edu Dean, College of Fine Arts Civil & Environmntl Eng & Const	Sustainable Energy Infrastructure Network: Robust, Reliable and Resilient (SUSTEIN-R3)	North Dakota State University-FPT	954,646	8/1/2020	7/31/2024
1/17/2020	CoPI Moon , Jaeyun Co-PI Marti, Erica Zhao, Hui	Mechanical Engineering Civil & Environmntl Eng & Const Mechanical Engineering	The Role of Diffusion in Nonlinear Diffuse-Charge Dynamics of Ionic Liquids at Large Voltages	National Science Foundation	269,706	9/1/2020	8/31/2023
1/17/2020	Zhao, Hui	Mechanical Engineering	Anomalous Electric-Field Induced Collective Dynamics of Colloids	National Science Foundation	341,466	9/1/2020	8/31/2023
1/27/2020	Barzilov, Alexander	Mechanical Engineering	Multi-Modal, Multi-Energy Approach for Neutron Interrogation of Spent Fuel - Task 40	Mission Support and Test Services, LLC	44,000	2/6/2020	9/30/2020
2/11/2020	Stefik, Andy	Computer Science	Computer Science Education for all Students in Nevada	NV Department of Education	1,526,714	10/1/2019	9/30/2024
2/12/2020	Chen, Yitung	Center for Energy Research	The Investigation of High-Precision Full Implicit Two-Phase Flow Numerical Simulation Model	ADTECH Inc	7,400	4/1/2019	3/31/2020
2/6/2020	Moon, Jaeyun	Mechanical Engineering	Self-Adapting Composite Coatings for Extreme Space Mechanism Applications for future NASA Mission	University of Nevada, Reno	177,223	6/1/2020	5/31/2023
2/6/2020	Co-PI Kim, Eunja Bansal, Shubhra	Physics and Astronomy Center for Energy Research	High Efficiency Tandem Thin-Film Solar Cells	EPSCoR/National Aeronautics & Space Administration	37,499	8/1/2020	7/31/2021
2/6/2020	Kang, Mingon	Computer Science	NASA Space Grant:Pattern-Recognition Algorithm for Monitoring Global Desert Change	Nevada System of Higher Education	51,268	9/1/2020	8/31/2021
1/7/2020	Moon, Jaeyun	Mechanical Engineering	Advanced Backfill Materials with Molecular Scale Modification for Engineered Barrier Systems under High Temperature Conditions	U.S. Department of Energy	800,000	10/1/2020	9/30/2023
1/28/2020	Co-PI Kim, Kwang Khan, Eakalak	Mechanical Engineering Civil & Environmntl Eng & Const	Novel and Practical Methods to Remove PFAS from Source Streams (Reclaimed Water, Biosolids, Landfill Leachates) and in Small Community Drinking Water	University of Nevada, Reno	248,876	10/1/2020	9/30/2023
2/19/2020	Co-PI Marti, Erica Co-PI Rusinek, Cory Baker, R. Jacob	Civil & Environmntl Eng & Const Chemistry & Biochemistry Elec & Comp Engineering	Preliminary Title: A Low-Cost, High-Performance Visible (V)UV/Near Photon Detection - DOE Topic 35A	Freedom Photonics LLC/FPT	60,000	9/1/2020	8/31/2021
3/16/2020	Baker, R. Jacob	Elec & Comp Engineering	Preliminary Title: Radiation-Hard Delta-Sigma Digital-to-Analog Converter NASA S1.02	Freedom Photonics LLC/FPT	30,000	9/1/2020	3/1/2021
2/20/2020	Kachroo, Pushkin	Transportation Research Center	Observational Seat Belt Use Survey FY2021	Nevada Office of Traffic Safety	101,356	10/1/2020	9/30/2021
2/21/2020	Sun, Ke-Xun	Elec & Comp Engineering	III-N Mesh Photomultipliers	Kyma Technologies Inc	65,000	6/1/2020	3/31/2021
2/21/2020	Sun, Ke-Xun	Elec & Comp Engineering	Rad-Hard GaN Scintillators for Radiation Detection	Kyma Technologies Inc	65,000	6/1/2020	3/31/2021
3/29/2020	Kim, Kwang	Mechanical Engineering	Hybrid Robotic Mobile Platform - Alexandria Washington	National Aeronautics and Space Administration	165,000		
3/29/2020	Kim, Kwang	Mechanical Engineering	Soft and Flexible Electroactive Polymer (EAP) Sensors for Fluid Flow and Aeronautical Sensing Applications - Nazanin Minaian	National Aeronautics and Space Administration	165,000	8/1/2020	7/31/2023
3/2/2020	Jo, Ju-Yeon Co-PI Kim, Yoohwan	Computer Science Computer Science	Cyber Scholarship Program at UNLV	U.S. Department of Defense	94,692	8/1/2020	7/31/2021
2/18/2020	Stefik, Andy	Computer Science	Collaborative Research: AccessCSforAll: Including Students with Disabilities in High School Computer Science - Supplement	National Science Foundation	93,835	9/1/2017	8/31/2021

2/24/2020	Park, Jee Woong	Civil & Envirnmntl Eng & Const	AI Analyzer for Revealing Insights of Traffic Crashes	The National Academies of Sciences Engineering Medicine	82,899	8/1/2020	7/31/2021
3/2/2020	Morris, Brendan	Transportation Research Center	Automated Image Based Scan System for POS	Agilysys, Inc	99,660	6/1/2020	12/31/2020
2/24/2020	Co-PI Muthukumar, Venkatesan	Elec & Comp Engineering					
3/4/2020	Kang, Mingon	Computer Science	Media Data Convergence System for Bridge Management	Georgia Southern University	47,499	1/1/2021	12/31/2022
	Barzilov, Alexander	Mechanical Engineering	Nuclear Security Science and Technology Consortium	National Nuclear Security Administration	3,000,000	10/1/2020	9/30/2023
	Co-PI Yim, Woosoon	Mechanical Engineering					
	Co-PI Sun, Ke-Xun	Elec & Comp Engineering					
	Co-PI Gelis, Artem	Chemistry & Biochemistry					
3/6/2020	Morris, Brendan	Transportation Research Center	Physical Intervention System for Wrong-way Driving on Ramps	Rebel Roadway Systems, LLC	50,000	7/1/2020	12/31/2020
2/28/2020	Morris, Brendan	Transportation Research Center	Center of Excellence for Accelerating Operational Efficiency (CAOE)/Improving the Operational Efficiency of Airport Security Screening Checkpoints – An Educational Experience	Arizona State University	75,618	4/15/2019	6/30/2020
3/16/2020	Yim, Woosoon	Mechanical Engineering	Robot Simulation Platform for Source Search and Mapping	Geisel Software	68,749	7/1/2020	8/31/2021
3/13/2020	Barzilov, Alexander	Mechanical Engineering	Wide Energy Fast Diamond Particle Detector	Adelphi Technology Inc	34,987	7/10/2020	1/10/2021
3/13/2020	Barzilov, Alexander	Mechanical Engineering	In Situ Neutron Instrument for Lunar and Planetary Science	Adelphi Technology Inc	34,987	7/10/2020	1/10/2021
3/4/2020	Kim, Kwang	Mechanical Engineering	Partnership for Printable and Flexible Electronics (PPFE)	National Nuclear Security Administration	1,508,314	7/1/2020	6/30/2023
	Co-PI Moon , Jaeyun	Mechanical Engineering					
3/7/2020	Choi, Jin Ouk	Civil & Envirnmntl Eng & Const	FW-HTF-P: Identifying the Future Needs of the Construction Workforce for Automated Modular Construction	National Science Foundation	150,000	7/1/2020	6/30/2021
	Co-PI Lim, Jaewon	School of Pub Policy & Ldshp					
2/21/2020	Oh, Paul	Mechanical Engineering	Robotics in Construction Phase 2 - Task 7	Tesla Motors	197,455	1/13/2020	12/31/2020
2/6/2020	Shrestha, Pramen	Civil & Envirnmntl Eng & Const	Selecting, Procuring and Implementing Airport Capital Project Delivery Methods	California State Polytechnic University, Pomona	90,447	5/15/2020	12/15/2021
2/20/2020	Kachroo, Pushkin	Transportation Research Center	Attitudinal Survey for Seat Belt and Child Restraint Usage - FY 2021	Nevada Office of Traffic Safety	53,568	10/1/2020	9/30/2021
3/19/2020	Kim, Si Jung	Dean, College of Engineering	Design and Development of Autonomous Indoor Flight Control for the ADR 2019	Ajou University Industry-Academic Cooperation Foundation	20,474	7/1/2019	6/30/2020
2/4/2020	Chen, Yitung	Center for Energy Research	Effect of KOH Addition on the Surface Reactivity and Stress Corrosion Cracking Behavior of Stainless Steel: An Integrated Experimental and Computational Investigation	University of Idaho-FPT	180,000	9/1/2020	8/31/2023
2/10/2020	Shrestha, Pramen	Civil & Envirnmntl Eng & Const	Quantifying the Impacts of Delayed Maintenance of Airport Assets	The National Academies of Sciences Engineering Medicine	299,703	6/1/2020	12/1/2021
3/19/2020	Jiang, Yingtao	Elec & Comp Engineering	Development of UAV-based Rail Track Defect Detection System Using Deep Learning Technology	Transportation Technology Center, Inc	20,000	12/3/2019	12/20/2019
	Co-PI Teng, Hualiang	Civil & Envirnmntl Eng & Const					
	Co-PI Zhu, Ming	Elec & Comp Engineering					
2/18/2020	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	14,584	10/1/2016	9/30/2020
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
3/28/2020	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	42,140	10/1/2016	9/30/2020
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
<b>EGR</b>	<b>41</b>				<b>Total 11,394,071</b>		
2/4/2020	Mulvenon, Sean	Educ Psy & Higher Edu	Research, Evaluation and Building Effective Learning Systems (REBELS)	National Science Foundation	300,000	7/1/2020	6/30/2022
	Co-PI Trabia, Mohamed	Dean, Engineering					
	Co-PI Hilpert, Jonathan	Educ Psy & Higher Edu					
1/24/2020	Wu, Qing	NV Inst Personalized Medicine	RII Track-2 FEC:Harnessing Multi-Modal Data to Understand the Effects of Disasters on Survivors from Genome to Phenome	National Science Foundation	5,999,977	1/1/2021	12/31/2024
	Co-PI Kan, Ge Lin	Environ & Occup Health					

2/5/2020	<b>Co-PI Kang, Mingon</b> Wu, Qing	<b>Computer Science</b> NV Inst Personalized Medicine	Harnessing Big Data to Improve Fracture Prevention and Risk Assessment: Creating Personalized Reference Ranges of Bone Density for Minority Women	National Institutes of Health	1,977,301	1/1/2021	12/31/2025
3/17/2020	<b>Co-PI Nasoz, Fatma</b> Co-PI St. Pierre Schneider, Barbara Co-PI Han, Mira Oh, Edwin	<b>Computer Science</b> School of Nursing School of Life Sciences NV Inst Personalized Medicine	Linking Ciliary Biology to the Functional Annotation of Psychiatric Disorders	National Institutes of Health	369,195	4/1/2018	3/31/2021
6/25/2020	Muthukumar, Venkatesan	Elec & Comp Engineering	NASA Space Grant: PATHWAY TO NASA: Enabling Foundation for NASA;s Earth and Space Science Missions	Nevada System of Higher Education	25,000	1/1/2018	4/9/2021
6/5/2020	Co-PI O'Toole, Brendan Co-PI Regentova, Emma Saber Sichani, Ali	Mechanical Engineering Elec & Comp Engineering Civil & Envirnmntl Eng & Const	Measurement and Modeling of Effects of Differential Wind Stress due to Topography and Wind Sheltering Elements on Hydrodynamics of Augmented Lakes and Reservoirs	U.S. Bureau of Reclamation	159,489	10/1/2020	9/30/2023
6/12/2020	Co-PI Ahmad, Sajjad Co-PI James, David Zhao, Hui	Civil & Envirnmntl Eng & Const Civil & Envirnmntl Eng & Const Mechanical Engineering	Durable Self-cleaning Reusable Fluorinated Graphene Oxide Coated N95 Respirators with Sunlight Sterilization	National Institutes of Health	547,474	4/1/2021	3/31/2024
6/18/2020	Kang, Mingon	Computer Science	Collaborative Research: CPS: Medium: Bridge Cyber-Physical System by Integrated Data to Foster Balanced Economic Growth: Civil Infrastructure	National Science Foundation	349,782	1/1/2021	12/31/2023
6/25/2020	Yim, Woosoon	Mechanical Engineering	Game Engine/Physics Based Open Source Modeling and Simulation Platform for Autonomous/Manned Vehicles and Robots	Geisel Software	58,275	11/1/2020	4/30/2021
6/24/2020	Muthukumar, Venkatesan	Transportation Research Center	Development and Comparative Evaluation of Roadside Animal Sensing Systems for Advanced Driver Warning Systems	University of Tennessee- Chattanooga	134,090	1/1/2021	12/31/2022
4/1/2020	Choi, Jin Ouk	Civil & Envirnmntl Eng & Const	COVID: RAPID: Cognitive Improvisation Decision-Making Processes in STEM Students during and after Pandemics - Faculty Recruiter	North Carolina Agricultural and Technical State University	4,653	6/1/2020	5/31/2021
4/20/2020	Trabia, Mohamed	Mechanical Engineering	Structural Analysis of Demand-Responsive Rumble Strip (DRRS), Version 2.0	Rebel Roadway Systems, LLC	29,698	6/1/2020	8/31/2020
4/21/2020	Chmaj, Grzegorz	Elec & Comp Engineering	2019 NSW 22 Combat Swimmer Data Recorder	Stevens Institute of Technology- FPT	5,000	9/1/2019	5/31/2020
4/22/2020	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	2/1/2021	1/31/2026
4/24/2020	Co-PI Trabia, Mohamed Co-PI Mulvenon, Sean Co-PI Vo, Tina Stefik, Andy	Dean, College of Engineering Dean, College of Education Teaching and Learning Computer Science	Medium RPP, PreK-8 Strand: Collaborative Research: AccessCSforAll: Including Students with Disabilities in Middle School Computer Science	National Science Foundation	491,030	11/1/2020	10/31/2023
4/27/2020	Morris, Melissa	Mechanical Engineering	Statler Increasing Access and Diversity in Engineering Program (ADE)	West Virginia University Research Corporation	27,458	10/1/2019	9/30/2021
4/26/2020	Oh, Paul	Mechanical Engineering	INSPIRE: Augmenting Bridge Inspection with Augmented Reality and Haptics- based Aerial Manipulation - Additional Project to subaward Mobile-Manipulating UAV's for Sensor Installation, Bridge Inspection	Missouri University of Science and Technology	81,696	1/1/2020	12/31/2020
4/28/2020	Barzilov, Alexander	Mechanical Engineering	Multiphysics Analysis of Accidents in Gen4 MSR an HTGR Reactors Analysis of Accidents in Gen4 MSR an HTGR Reactors	Nuclear Regulatory Commission	495,422	10/1/2020	9/30/2023
5/8/2020	Kachroo, Pushkin	Transportation Research Center	Observational Seat Belt Usage Survey FY 20	Nevada Office of Traffic Safety	37,989	10/1/2019	9/30/2020
5/5/2020	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	21,766	4/1/2017	9/30/2020
4/23/2020	Marti, Erica	Civil & Envirnmntl Eng & Const	Tech Trekker: Increasing K-12 Access to Technology in Southern Nevada	Desert Research Inst	27,873	5/5/2020	6/30/2020
4/30/2020	Khan, Eakalak	Civil & Envirnmntl Eng & Const	Innovating Polymeric Microenvironments with Bacterial Degraders, Nanoscale Zerovalent Zinc and Biochar for Simultaneous Bioremediation of 1,2,3- Trichloropropane and 1,2-Dichloropropane in Groundwater	National Institutes of Health	1,520,964	1/1/2021	12/31/2025
5/14/2020	Co-PI Moon , Jaeyun Jo, Ju-Yeon	Mechanical Engineering Computer Science	COVID: Application of Multipath TCP to Virtual Channel Bonding in a Hybrid Satellite Communication Environment	U.S. Army Research Office	48,752	7/1/2020	12/31/2020
5/21/2020	Kim, Kwang	Mechanical Engineering	FMRG: Scalable Multi-active-materials 3D Bioprinting with Nanoscale Res: Scalable Multi-active-materials 3D Bioprinting with Nanoscale Resolution using Electrohydrodynamically Induced Nanojet Approach	University of Utah	399,997	10/1/2020	9/30/2024

5/13/2020	O'Toole, Brendan	Ctr for Materials & Structures	Flyer Plate and Compression Testing of 17-4 PH Stainless Steel Fabricated using the MarkForged Metal X Additive Manufacturing System - Task 42	Mission Support and Test Services, LLC	4,993	5/11/2020	9/30/2020
5/8/2020	Boehm, Robert	Center for Energy Research	Technical Support and Maintenance of the NV Regional Test Center for Solar Technologies	Sandia National Laboratories	140,000	4/27/2020	9/30/2020
5/28/2020	Moon, Jaeyun	Mechanical Engineering	FMSG: Sustainable Advanced Manufacturing	University of Nevada, Reno	166,666	1/1/2021	12/31/2022
5/28/2020	Kim, Kwang	Mechanical Engineering	SII Planning of a RF Spectrum Survey Center	Norfolk State University-FPT	60,000	8/1/2020	7/31/2021
5/14/2020	Kim, Yoohwan	Computer Science	COVID: COVID-19 Contract Tracing with Blockchain	U.S. Army Research Office	49,088	7/1/2020	12/31/2020
5/19/2020	Moon, Jaeyun	Center for Energy Research	Collaborative Research: Strain Engineered Origami-Kirigami Devices for Thermoelectrically Powered Wearable Sensor	National Science Foundation	249,999	1/1/2021	12/31/2023
5/29/2020	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	47,848	8/3/2015	9/30/2020
6/4/2020	Co-PI Nasoz, Fatma	Computer Science	Supporting the project Cyber Threat Hunter/Defender Certificate Program	University of Texas, San Antonio- FPT	1,210,906	8/1/2021	7/31/2023
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
	Kim, Yoohwan	Computer Science					
6/1/2020	Co-PI Taghva, Kazem	Compute Science	A Guide to Computation and Use of System Level Valuation of Transportation Assets	The National Academies of Sciences Engineering Medicine	599,975	7/1/2020	9/30/2021
	Co-PI Jo, Ju-Yeon	Computer Science					
	Shrestha, Pramen	Transportation Research Center					
<b>EGR</b>	<b>29</b>				<b>Total 7,995,883</b>		
4/15/2020	Madsen, Steen	Health Physics and Diag Sci	UNLV Nuclear Science and Engineering Fellowship Program	Nuclear Regulatory Commission	394,332	8/1/2021	7/31/2025
6/3/2020	<b>Co-PI Barzilov, Alexander</b>	<b>Mechanical Engineering</b>	Alzheimer's Clinical Trial InnOvation (ACTION) Initiative	National Institutes of Health	2,994,201	4/1/2021	3/31/2026
	Co-PI Gelis, Artem	Chemistry & Biochemistry					
6/3/2020	Cummings, Jeffrey	Brain Health					
4/24/2020	Co-PI Taghva, Kazem	Computer Science	Advancing Computer Science Education Standards (ACSES) for All in Nevada	National Science Foundation	862,313	8/1/2020	7/31/2023
4/24/2020	Deniz, Hasan	Ctr for Math, Sci & Eng Edu					
4/14/2020	<b>Co-PI Kim, Yoohwan</b>	<b>Computer Science</b>	Personalized Fracture Risk Assessment Tool	National Institutes of Health	1,969,443	7/1/2021	6/30/2026
	Co-PI Varner, Kenneth	Teaching and Learning					
	Wu, Qing	NV Inst Personalized Medicine					
6/25/2020	<b>Co-PI Nasoz, Fatma</b>	<b>Computer Science</b>	A Suite of Machine-learning Tools for Rapid and Accurate Bacteriophage Genome Annotation	National Institutes of Health	373,750	4/1/2021	3/31/2024
	Co-PI Han, Mira	School of Life Sciences					
6/25/2020	Tsourkas, Philippos	School of Life Sciences					
5/11/2020	<b>Co-PI Harris, Sarah</b>	<b>Elec &amp; Comp Engineering</b>	Center for E-Commerce, Resiliency, and Transportation Network Demand (CERTaN Kansas State University-FPT)	University of Minnesota-FPT	320,000	1/1/2021	6/30/2022
	Nambisan, Shashi	Transportation Research Center					
	Co-PI Copeland, David	Psychology					
6/22/2020	Co-PI Miller, Stephen	Ctr for Bus and Eco Resrch	Communication, Technology, Data and Analytics (CTDA) and Organization Adaptati Hickory Ridge Group		59,970	10/1/2020	5/31/2021
	Stephen, Haroon	Transportation Research Center					
5/20/2020	Co-PI Nambisan, Shashi	Transportation Research Center	Center for NextGen Automated Accessible Transportation (CNT)	University of Minnesota-FPT	339,958	1/1/2021	6/30/2022
	Nambisan, Shashi	Transportation Research Center					
5/18/2020	Co-PI Kachroo, Pushkin	Transportation Research Center	Topic Area #4: Strategic Implications of Changing Public Transportation Travel Tren University of Oklahoma-FPT		200,000	10/1/2020	3/31/2022
	Co-PI Martin, Kate	Dean, School of Medicine					
	Nambisan, Shashi	Transportation Research Center					
5/18/2020	Co-PI Stephen, Haroon	Civil & Envirmntl Eng & Const	Center for Travel Demand Analytics (TraDA Center)	George Mason University	285,000	12/15/2020	6/30/2022
	Co-PI Miller, Stephen	Ctr for Bus and Eco Resrch					
5/21/2020	Nambisan, Shashi	Transportation Research Center	Center for Integrated Mobility through Public, Adaptive & Coordinated Transit (C-IMF University of Illinois)		200,000	1/1/2021	6/30/2022
	Co-PI Copeland, David	Psychology					
	Co-PI Miller, Stephen	Ctr for Bus and Eco Resrch					
5/21/2020	Co-PI Trabia, Mohamed	Mechanical Engineering					
	Co-PI Miller, Stephen	Ctr for Bus and Eco Resrch					
<b>EGR</b>	<b>35</b>						
<b>Total Proposals</b>	<b>145</b>			<b>Grand Total</b>	<b>48,024,548</b>		