

4/6/2021 Proposals

Submit Date	PI Name	Dept	Project Title	Agency	Total	Proposed Start Date	Proposed End Date
1/11/2021	Regentova, Emma	Elec & Comp Engineering	NSF AISL: Vegas STEM Lab	National Science Foundation	1,142,708	9/1/2021	12/31/2024
	Co-PI Muthukumar, Venkatesan	Elec & Comp Engineering					
	Co-PI Kim, Si Jung	Dean, College of Engineering					
	Co-PI Hilpert, Jonathan	Educ Psy & Higher Edu					
1/5/2021	Fonseca Cacho, Jorge	Computer Science	Onboard Satellite Fault Diagnosis using Housekeeping Telemetry & Machine Learning	EPSCoR/National Aeronautics & Space Administration	100,000	5/1/2021	4/30/2022
1/8/2021	Chen, Yitung	Center for Energy Research	Solid Fuel Molten Salt Reactor (SFMSR) Design	Code Greene	103,080	1/1/2021	12/31/2021
1/14/2021	Khan, Eakalak	Civil & Envirnmntl Eng & Const	Biomimicry of the Growth of a Desert Plant as an Approach for Extractions of Phosphorus and Minerals from Martian Regolith	EPSCoR/National Aeronautics & Space Administration	81,238	6/1/2021	5/31/2022
1/20/2021	Kachroo, Pushkin	Transportation Research Center	Observational Seat Belt Use Survey FY2021	Nevada Office of Traffic Safety	67,500	10/1/2020	9/30/2021
1/28/2021	Sun, Ke-Xun	Elec & Comp Engineering	Flight Tech Demo Design/Planning for Docking/Undocking CubeSats in Orbit	Jet Propulsion Laboratory	40,000	2/16/2021	9/26/2021
1/27/2021	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	17,001	8/3/2015	3/31/2021
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
1/19/2021	Kang, Mingon	Computer Science	MRI: Acquisition of a GPU Cluster for Multi-Disciplinary Research and Education at University of Nevada, Las Vegas	National Science Foundation	432,269	9/1/2021	8/31/2024
	Co-PI Morris, Brendan	Elec & Comp Engineering					
1/29/2021	Oh, Paul	Mechanical Engineering	INSPIRE: Integration of Aerial Manipulation, Haptics-based Human-in-the-Loop Control, and Augmented Reality for Bridge Deck Hosing	Missouri University of Science and Technology	82,374	1/1/2021	12/31/2021

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1/29/2021	Khan, Eakalak	Civil & Environmntl Eng & Const	Artificial Intelligence on Sustainable Energy Infrastructure Network (AI SUSTEIN) and Beyond towards Industries of the Future	North Dakota State University-FPT	1,058,042	10/1/2021	9/30/2025
	Co-PI Stave, Krystyna	School of Pub Policy & Ldshp					
	Co-PI Marti, Erica	Civil & Environmntl Eng & Const					
2/4/2021	Stefik, Andy	Computer Science	Medium RPP, High School Strand: Collaborative Research: AccessCSforAll: Making High School Computer Science Accessible	National Science Foundation	499,899	9/1/2021	8/31/2024
1/25/2021	Kim, Kwang	Mechanical Engineering	RII Track-2 FEC: Soft Devices and Robotics for Promoting Advanced Manufacturing and Applications in Nevada and Iowa (SDRAM-NVIA)	National Science Foundation	3,999,895	7/1/2021	6/30/2025
	Co-PI Oh, Paul	Mechanical Engineering					
	Co-PI Bansal, Shubhra	Mechanical Engineering					
1/28/2021	Culbreth, William	Mechanical Engineering	Develop Schlieren Optical System - Task 48	Mission Support and Test Services, LLC	54,575	1/28/2021	9/30/2021
3/11/2021	Zhao, Hui	Mechanical Engineering	NASA Space Grant: Durable Self-cleaning Super-hydrophobic Coating for Passive Dust Mitigation	Nevada System of Higher Education	51,942	5/1/2021	4/30/2022
3/5/2021	Morris, Brendan	Transportation Research Center	Pedestrian and Bicyclist Count Program	Nevada Office of Traffic Safety	60,100	10/1/2021	9/30/2022
3/12/2021	Bansal, Shubhra	Center for Energy Research	Novel Mixed Halide-Chalcogenide Perovskite Photoabsorbers for Power Generation for Small Landing Probes	EPSCoR/National Aeronautics & Space Administration	37,490	8/1/2021	7/31/2022
3/9/2021	Khan, Eakalak	Civil & Environmntl Eng & Const	Identification and Development of Task Specific Deep Eutectic Solvents for the Dissolution Silica from the Lunar Regolith	EPSCoR/National Aeronautics & Space Administration	37,490	6/1/2021	5/31/2022

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3/12/2021	Morris, Brendan	Elec & Comp Engineering	REU Site: Smart Cities - Intelligent, Safe, And Secure Mobility	National Science Foundation	118,100	6/1/2021	5/31/2023
3/9/2021	Kang, Mingon	Computer Science	AI-based Big Data Research for Microorganism Genome and Cultivation of Innovative ICT-based Interdisciplinary Global Talents	Sun Moon University	120,000	5/1/2021	7/31/2022
3/3/2021	Zhao, Hui	Mechanical Engineering	High Efficiency IMM Solar Cells using Digital Nano Patterning	MicroLink Devices, Inc-FPT	17,500	9/1/2021	12/31/2021
3/12/2021	Kachroo, Pushkin	Transportation Research Center	Observational Seat Belt Use Survey FY2022	Nevada Office of Traffic Safety	103,531	10/1/2021	9/30/2022
3/5/2021	Barzilov, Alexander	Mechanical Engineering	Precise Measurements of Reaction Gamma Responses from Various Materials - Task	Mission Support and Test Services, LLC	368,554	9/30/2021	8/31/2024
3/12/2021	Cho, Han-Jae (Jeremy)	Mechanical Engineering	Dynamic Surfactant Adsorption to the Oil-water Interface and its Effects on Oil Mobilization	American Chem. Society - Petroleum Research Fund	109,999	9/1/2022	8/31/2024
3/12/2021	Zhao, Hui	Mechanical Engineering	Collaborative Research: Concentration Polarization Induced Electrokinetic Flows around Dielectric Surfaces	National Science Foundation	240,778	9/1/2021	8/31/2024
2/5/2021	Chen, Yitung	Center for Energy Research	Development and Implementation of Stress Corrosion Cracking Modeling in Molten Salt System using MOOSE Platform	U.S. Department of Energy	699,964	10/1/2021	9/30/2024
2/26/2021	Baker, R. Jacob	Elec & Comp Engineering	Radiation-Hard, Blue-Enhanced, Silicon Photomultipliers	U.S. Department of Energy	59,932	12/1/2021	1/1/2022
1/28/2021	Trabia, Mohamed	Mechanical Engineering	INBRE 2021: Colorectal Modeling Project	University of Nevada, Reno	10,000	9/1/2021	2/28/2022
2/23/2021	Kang, Mingon	Computer Science	NASA Space Grant:Pattern-Recognition Algorithm for Monitoring Global Desert Change - Match	NV System of Higher Education	16,674	7/1/2020	5/31/2021
2/9/2021	Jo, Ju-Yeon	Computer Science	HSI Implementation and Evaluation Project: Improving Retention and Completion in Computer Science by Bridging the Skills Gap	National Science Foundation	499,995	9/1/2021	8/31/2024

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	Co-PI Taghva, Kazem	Computer Science					
	Co-PI Kim, Yoohwan	Computer Science					
	Co-PI Deniz, Hasan	Teaching and Learning					
2/19/2021	Muthukumar, Venkatesan	Elec & Comp Engineering	Collaborative Research: SCH: Smart Stepper: A Smart and Connected System to Facilitate Foot Contact in Children with Idiopathic Toe Walking	Chapman University	396,541	6/1/2021	5/31/2024
	Co-PI Trabia, Mohamed	Mechanical Engineering					
2/18/2021	Jo, Ju-Yeon	Computer Science	NASA Space Grant: Multipath TCP Architecture in a Hybrid Satellite Communication Environment	Nevada System of Higher Education	30,132	7/1/2020	12/31/2021
2/18/2021	Jo, Ju-Yeon	Computer Science	NASA Space Grant: Multipath TCP Architecture in a Hybrid Satellite Communication Environment - Match	NV System of Higher Education	22,042	7/1/2020	5/31/2021
3/31/2021	Zhao, Hui	Mechanical Engineering	Artificial Intelligence Accelerated Engineered Quasi-Random Broad-band Omnidirectional Photonic Nanostructures	National Science Foundation	495,319	10/1/2021	9/30/2024
	Co-PI Zhu, Qiang	Physics and Astronomy					
	Co-PI Zhai, Shengjie	Mechanical Engineering					
3/22/2021	Park, Jee Woong	Civil & Environmntl Eng & Const	Implementing and Leveraging Machine Learning at State Departments of Transportation and Transportation Agencies	The National Academies of Sciences Engineering Medicine	240,493	7/1/2021	6/30/2023
	Co-PI Morris, Brendan	Elec & Comp Engineering					
3/31/2021	Oh, Paul	Mechanical Engineering	AI-based ATA/NW Sensor Data Fusion and Analytics System	Terbine	26,400	9/1/2021	8/31/2022
3/23/2021	Lee, Jeehee	Civil & Environmntl Eng & Const	Collaborative Research: FW-HTF-P: Promoting Mental Health of Construction Workforce through Visual Perception Assistants and Chromotherapy using Mixed Reality (MR)	National Science Foundation	67,223	10/1/2021	9/30/2022

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3/23/2021	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	73,315	8/3/2015	9/30/2021
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
3/31/2021	Stefik, Andy	Computer Science	REU Supplement: Collaborative Research: AccessCS for All: Including Students with Disabilities in at High School Computer Science	National Science Foundation	13,000	9/1/2017	12/31/2021
3/30/2021	Kang, Mingon	Computer Science	Novel Integrative Analysis of Multi-omics Data using Biologically Interpretable Deep Learning	Cincinnati Children's Hospital Medical Center-FPT	980,394	1/1/2022	12/31/2026
EGR	39			Total	12,575,489		
3/4/2021	Gelis, Artem	Chemistry & Biochemistry	NRT Research Traineeship Program for Radiological Sciences (RT-RS)	National Science Foundation	3,000,000	10/1/2021	9/30/2026
	Co-PI Poineau, Frederic	Chemistry & Biochemistry					
	Co-PI Barzilov, Alexander	Mechanical Engineering					
	Co-PI Sun, Zaijing	Health Physics and Diag Sci					
2/8/2021	Sloat, Alison	Dean, College of Sciences	HSI Institutional Transformation Project: Southern Nevada Community Tree Alliance (SNCTA)	National Science Foundation	2,999,986	10/1/2021	9/30/2026
	Co-PI Pritchard, Laurel	Office of Vice Provost					
	Co-PI Stephen, Haroon	Civil & Envirnmntl Eng & Const					
	Co-PI Rincon, Blanca	Educ Psy & Higher Edu					
1/16/2021	Zhou, Yan	Physics and Astronomy	MRI: Acquisition of a Phase Stabilized Optical Frequency Comb for Precision Metrology, Quantum Sensing, Information Processing, and Novel Spectroscopy	National Science Foundation	828,904	7/1/2021	6/30/2024
	Co-PI Naduvalath, Balakrishnan	Chemistry & Biochemistry					
	Co-PI Sun, Ke-Xun	Elec & Comp Engineering					
	Co-PI Salamat, Ashkan	Physics and Astronomy					
	Co-PI Island, Joshua	Physics and Astronomy					

