

7/16/2018	<b>FY 18 Engineering Proposals</b>						
10/9/2017	<b>FY 18 1st Quarter Proposals - July 1, 2017 - September 30, 2017</b>						
<b>Submit Date</b>	<b>PI Name</b>	<b>Dept</b>	<b>Project Title</b>	<b>Agency</b>	<b>Total</b>	<b>Proposed Start Date</b>	<b>Proposed End Date</b>
7/12/2017	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	13,333	6/1/2016	12/31/2017
7/13/2017	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	74,091	1/15/2017	12/31/2019
7/6/2017	Zhan, Justin (Zhijun)	Computer Science	Acquisition of a GPU Cluster for Network Science and Big Data Research and Education	U.S. Army Research Office	200,000	7/15/2018	7/14/2019
7/11/2017	Zhan, Justin (Zhijun)	Computer Science	Deep Learning Approaches for Biomedical Big Data	National Institutes of Health	435,997	1/1/2018	12/31/2020
7/11/2017	Zhan, Justin (Zhijun)	Computer Science	Establishment of a Scholarship for Service Program at the University of Nevada, Las Vegas	U.S. Army Research Office	3,878,063	1/1/2018	12/31/2022
7/5/2017	O'Toole, Brendan	Ctr for Materials & Structures	Reduced Cost, Repeatable, Improved Property Washout Tooling for Composite Fabrication - Phase I	Nevada Composites Inc	21,000	5/11/2017	11/10/2017
7/5/2017	O'Toole, Brendan	Ctr for Materials & Structures	NASA Space Grant: Solar Eclipse Near Space Exploration	Nevada System of Higher Education	5,328	5/1/2016	8/31/2017
7/5/2017	O'Toole, Brendan	Ctr for Materials & Structures	NASA Space Grant: Solar Eclipse Near Space Exploration - Match	NV System of Higher Education	5,328	5/1/2016	8/30/2017
7/7/2017	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	5,000	1/1/2017	12/31/2017
7/18/2017	Oh, Paul	Mechanical Engineering	PIRE: R3D3: Risk-Averse and Reliable Robotics (R3) in Dangerous, Distant and Daring (D3) Environments	Northeastern University	599,879	10/1/2017	9/30/2022
7/19/2017	Boehm, Robert	Center for Energy Research	The Solar Energy-Water-Environment Nexus in Nevada - UROP Scholarships (Diversity Plan) Task 7	NV System of Higher Education	7,157	7/1/2016	5/30/2018
7/7/2017	Co-PI Batista, Jacimaria Choi, Jin Ouk	Civil & Environmntl Eng & Const Civil & Environmntl Eng & Const	High Speed Rail Access Charge for the XpressWest of Nevada	Univer of Nevada, Las Vegas	117,542	7/1/2017	6/30/2018
7/7/2017	Co-PI Kaseko, Mohamed Co-PI Teng, Hualiang Jiang, Yingtao	Transportation Research Center Civil & Environmntl Eng & Const Elec & Comp Engineering	Development of a Platform to Enable Real Time, Non-Disruptive Testing and Early Fault Detection of Critical High Voltage Transformers and Switchgears in High Speed Rail	Univer of Nevada, Las Vegas	66,230	7/1/2017	6/30/2018
7/17/2017	Sherman, Ryan	Civil & Environmntl Eng & Const	Developing Acoustic Technology to Detect Transverse Defects in Rail at High Speed (220 mph)	Univer of Nevada, Las Vegas	129,169	7/1/2017	6/30/2018
7/13/2017	Co-PI Jiang, Yingtao Co-PI Tian, Ying Gerrity, Daniel	Elec & Comp Engineering Civil & Environmntl Eng & Const Civil & Environmntl Eng & Const	CAREER: Integration of Chemical and Molecular Techniques to Optimize Ozone-Biofiltration for Potable Reuse	National Science Foundation	517,634	1/1/2018	12/31/2022
7/27/2017	Boehm, Robert	Center for Energy Research	2017 Nexus Special Projects Match - Year 3 Funds	NV System of Higher Education	23,600	6/1/2017	5/30/2018
7/25/2017	Co-PI Batista, Jacimaria Kim, Kwang	Civil & Environmntl Eng & Const Mechanical Engineering	From Digital to Scalable Active-Composites for Soft Robots: Replicating the Structure and Active-Mechanisms of Marine-Life Through 3D Printing	U.S. Army Research Office	599,000	6/1/2018	5/31/2021
7/26/2017	Wang, Zhiyong	Mechanical Engineering	Mobile 3D Printing of Rail Track Surface for Rapid Repairment	Univer of Nevada, Las Vegas	67,059	7/1/2017	6/30/2018
8/2/2017	Kim, Si Jung	Dean, College of Engineering	A Design and Development of an Airship for Live Entertainment	Hanru Co., Ltd	13,400	7/10/2017	12/31/2017
7/31/2017	Gerrity, Daniel	Civil & Environmntl Eng & Const	Optimization of Online Bromte Analyzer to Improve Sensitivity and Reliability - Task 2	Nevada Center of Excellence dba Waterstart	29,226	8/1/2017	3/31/2018
7/28/2017	Zhan, Justin (Zhijun)	Computer Science	Establishment of a Scholarship for Service Program at the University of Nevada, Las Vegas	National Science Foundation	2,527,593	2/1/2018	1/31/2023
8/8/2017	Zhan, Justin (Zhijun)	Computer Science	Establishing a Research and Engineering Apprenticeship Program	The Academy of Applied Science, Inc	5,000	1/1/2018	12/31/2018
8/8/2017	Zhao, Hui	Mechanical Engineering	Bioinspired Robust Lightweight Flexible Icephobic Omnidirectional Transparent Multifunctional Durable Materials	U.S. Army Research Office	599,230	6/1/2018	5/31/2021
8/14/2017	Venkat, Rama	Dean, College of Engineering	Graduate Student Fellowships for Radiochemistry Ph.D. Program at the University of Nevada, Las Vegas	U.S. Department of Energy	7,500	7/1/2009	6/30/2022
8/16/2017	Co-PI Culbreth, William Kim, Si Jung	Mechanical Engineering 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	54,000	7/1/2017	1/31/2018
8/17/2017	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	322,249	4/1/2018	3/31/2021
9/14/2017	Co-PI Dufek, Janet Choi, Jin Ouk	Kinesiology and Nutrition Sci Civil & Environmntl Eng & Const	A Data-Driven Dynamic Optimization Framework for Modular-Based Rapid Post-Flooding Reconstruction of Infrastructure Systems and Neighboring Communities	Louisiana State University	109,832	1/1/2018	12/31/2019

9/14/2017	Gerrity, Daniel	Civil & Environmntl Eng & Const	Application of Numerical Simulation Modeling of Drought Conditions in Lake Mead to Inform Future Drinking Water Treatment Process Needs	So. Nev. Water Authority	75,074	8/15/2017	8/15/2019
9/14/2017	Tian, Ying	Civil & Environmntl Eng & Const	Improving Precast System Connection Durability by Development of Nonproprietary Engineered Cementitious Material	University of California, Irvine	32,180	1/1/2018	12/31/2020
9/12/2017	Ghafoori, Nader	Civil & Environmntl Eng & Const	Use of Nevada's Natural Pozzolan to Mitigate Alkali-Silicate Reactivity - Task 16	Univ. of Nevada, Reno	45,000	7/31/2017	7/31/2018
9/12/2017	Paz-Cruz, Alexander	Transportation Research Center	Prototyping and Field Testing of a Demand-Responsive Rumble Strip Mechanism	Univ. of Nevada, Reno	46,654	7/31/2017	7/31/2018
9/11/2017	Co-PI Trabia, Mohamed Boehm, Robert	Center for Energy Research	The Solar Energy-Water-Environment Nexus in Nevada - Task 2 - Nexus Research	EPSCoR/National Science Foundation	1,274,293	6/1/2013	5/31/2018
9/11/2017	Co-PI Batista, Jacimaria Boehm, Robert	Civil & Environmntl Eng & Const Center for Energy Research	The Solar Energy-Water-Environment Nexus in Nevada - Task 5 - Workforce Development/Education	EPSCoR/National Science Foundation	151,960	6/1/2013	5/31/2018
9/11/2017	Co-PI Batista, Jacimaria Boehm, Robert	Civil & Environmntl Eng & Const Center for Energy Research	The Solar Energy-Water-Environment Nexus in Nevada - Task 3 - Cyber Infrastructure Research	EPSCoR/National Science Foundation	1,440	6/1/2013	5/31/2018
9/11/2017	Co-PI Batista, Jacimaria Boehm, Robert	Civil & Environmntl Eng & Const Center for Energy Research	The Solar Energy-Water-Environment Nexus in Nevada - Task 4 - CI Plan	EPSCoR/National Science Foundation	7,200	6/1/2013	5/31/2018
9/1/2017	Co-PI Batista, Jacimaria Paz-Cruz, Alexander	Civil & Environmntl Eng & Const Transportation Research Center	Extensive Field Testing and Enhancement of a Demand-Responsive Transverse Rumble Strip Mechanism for Traffic Safety	Transportation Research Board	99,999	1/1/2018	12/31/2019
8/30/2017	Co-PI Morris, Brendan Hartmann, Thomas	Transportation Research Center Mechanical Engineering	UNLV Tritium Measurement - Task 27	National Security Technologies	50,000	8/30/2017	10/31/2017
8/29/2017	Morris, Brendan	Elec & Comp Engineering	Person Recognition for Access Logging	Oak Ridge National Laboratory	20,000	3/6/2017	9/30/2017
8/28/2017	Shrestha, Pramen	Civil & Environmntl Eng & Const	Emerging Technologies for Construction Delivery	Transportation Research Board	45,000	10/16/2017	10/15/2018
8/29/2017	Co-PI Park, Jee Woong Shrestha, Pramen	Civil & Environmntl Eng & Const Civil & Environmntl Eng & Const	Leveraging Private Capital for Infrastructure Renewal	Transportation Research Board	45,000	10/16/2017	10/15/2018
8/23/2017	Co-PI Jacob, Benoy Lim, Jaewon	School of Pub Policy & Ldshp School of Pub Policy & Ldshp	Quantum Cryptography Detector Chip - Phase II	Freedom Photonics LLC/FPT	266,068	8/7/2017	8/6/2019
8/1/2017	Baker, R. Jacob	Elec & Comp Engineering	NA22 FOAS Project - Task 25	National Security Technologies	16,988	10/1/2016	3/31/2017
8/22/2017	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	74,880	7/1/2018	6/30/2020
9/14/2017	Co-PI O'Toole, Brendan Co-PI Regentova, Emma Park, Jee Woong	Mechanical Engineering Elec & Comp Engineering Civil & Environmntl Eng & Const	Waking up a New Sensory System: Body-to-Brain Stimulus for Increased Real-Time Perception of Safety Hazards and Ensuing Preventative Measures	National Science Foundation	411,918	1/1/2018	12/31/2020
9/21/2017	Tian, Ying	Civil & Environmntl Eng & Const	Collaborative Research: Time-Dependent Response of Reinforced Concrete Buildings Near Collapse	National Science Foundation	225,798	6/1/2018	5/31/2021
9/15/2017	Pepper, Darrell	NV Ctr for Adv Comp Methods	CAREER: The Formation of Stars, Planets and Moons - Similar Physics Applied to Different Systems and Enhancing Literacy of Scientific Computing	Sony	99,942	1/15/2018	1/14/2019
9/14/2017	Co-PI Yfantis, Evangelos Zhao, Hui	Computer Science Mechanical Engineering	Repurposing Optical Disc Technologies for Digital Programmable Manufacturing of Quasi-Random Nanostructures	National Science Foundation	337,225	8/1/2018	7/31/2021
9/20/2017	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	37,152	1/15/2017	12/31/2019
9/25/2017	Morris, Brendan	Transportation Research Center	Spokes: Medium: West: Collaborative: Regional Telematics Data Lake for Enhanced Mobility	National Science Foundation	196,372	6/1/2018	3/31/2020
9/21/2017	Co-PI Paz-Cruz, Alexander Venkat, Rama	Civil & Environmntl Eng & Const Dean, College of Engineering	UNLV-TBE Payload Development	Teledyne Brown Engineering, Inc-FPT	22,733	8/3/2015	2/28/2018
	Co-PI Bernacki, Matthew Co-PI Nasoz, Fatma Co-PI Watkins, Helga	Educ Psy & Higher Edu Computer Science Dean, College of Fine Arts					
<b>EGR</b>	<b>50</b>				<b>Total 14,016,316</b>		
8/17/2017	Bernacki, Matthew	Educ Psy & Higher Edu	Taking Ownership of Algebra: A Personalized Learning Authority Environment for Math Education	U.S. Department of Education	1,397,788	7/1/2018	6/30/2022
	Co-PI Nasoz, Fatma Co-PI Perera, Harsha	Computer Science Educ Psy & Higher Edu					

1/5/2018	FY 18 - 2nd Quarter Proposals - October 1, 2017 - December 31, 2017						
Submit Date	PI Name	Dept	Project Title	Agency	Total	Proposed Start Date	Proposed End Date
10/5/2017	Hartmann, Thomas	Mechanical Engineering	Microstructural Characterization of RERTR Fuel Plates	Idaho National Laboratory	30,000	9/9/2013	9/30/2018
10/5/2017	Morris, Brendan	Elec & Comp Engineering	AF17A-T027: Target Tracking via Deep Learning	Toyon Research Corporation-FPT	58,598	9/7/2017	5/30/2018
10/10/2017	Zhan, Justin (Zhijun)	Computer Science	REU Site: Research Experiences for Undergraduates in Big Data	National Science Foundation	323,218	4/1/2018	3/31/2021
	Co-PI Gewali, Laxmi	Computer Science					
10/10/2017	Zhan, Justin (Zhijun)	Computer Science	Spokes: SMALL: WEST: Collaborative: Precision Neuro-Medicine	National Science Foundation	500,000	4/1/2018	3/31/2021
	Co-PI Chen, Xiangning	Psychology					
10/10/2017	Zhan, Justin (Zhijun)	Computer Science	MRI: Acquisition for Equipment to Establish Big Data Analytics Infrastructure for	National Science Foundation	49,860	4/1/2018	3/31/2021
10/10/2017	Yang, Mei	Elec & Comp Engineering	REU SITE: Advanced Data Acquisition, Data Processing and Data Visualization for	National Science Foundation	35,995	3/1/2018	2/28/2021
	Co-PI Batista, Jacimaria	Civil & Environmntl Eng & Const					
10/4/2017	Baker, R. Jacob	Ctr Eng Matrls Tech (EMITION)	Transimpedance Amplifier Integrated Circuit Collaboration - Task	National Security Technologies	99,999	10/1/2017	9/30/2018
10/19/2017	Schill, Robert	Ctr Eng Matrls Tech (EMITION)	Examining the Characteristics of Constricted Pulsed-Plasma Glow Discharges and	National Science Foundation	705,030	8/26/2017	8/25/2020
10/20/2017	Kim, Kwang	Mechanical Engineering	Collaborative Research: Searching for an Effective Heat Transfer Additive for	National Science Foundation	299,942	8/1/2018	7/31/2021
10/12/2017	Sherman, Ryan	Civil & Environmntl Eng & Const	Development of an Adaptable Instrumentation System for High-Speed Rail	Univer of Nevada, Las Vegas	59,997	1/1/2018	12/31/2018
	Co-PI Tian, Ying	Civil & Environmntl Eng & Const					
10/12/2017	Ghafoori, Nader	Civil & Environmntl Eng & Const	Impact of Increased Limestone Cement Content on Concrete Performance as	California Department of	294,066	5/15/2018	5/14/2021
10/16/2017	Batista, Jacimaria	Civil & Environmntl Eng & Const	Bench-Scale Testing for Unit 4 Source Area Bioremediation Treatability Study	Tetra Tech, Inc	277,000	9/27/2017	7/31/2018
10/20/2017	Moon, Jaeyun	Mechanical Engineering	Collaborative Research: Removal of Emerging Contaminants for Drinking Water	National Science Foundation	178,942	8/1/2018	7/31/2021
10/17/2017	Moon, Jaeyun	Mechanical Engineering	Collaborative Research: Synthesis and Characterization of Bimetallic Zero-Valent	National Science Foundation	99,353	8/1/2018	7/31/2021
10/10/2017	Marti, Erica	Civil & Environmntl Eng & Const	RET Site: STEMenomics-Application of Molecular Microbiology, Bioinformatics and	National Science Foundation	398,551	1/1/2019	12/31/2020
	Co-PI Gerrity, Daniel	Civil & Environmntl Eng & Const					
	Co-PI Tettegah, Sharon	Teaching and Learning					
10/10/2017	Kim, Yoohwan	Computer Science	RET: Cyber Security Training for Teachers in Southern Nevada	National Science Foundation	598,780	5/1/2018	4/30/2021
10/23/2017	Jo, Ju-Yeon	Computer Science	GenCyber Summer Camp: Cybersecurity Summer Camp for High School Students	National Security Agency	99,991	3/1/2018	2/28/2019
	Co-PI Kim, Yoohwan	Computer Science					
10/20/2017	Barzilov, Alexander	Mechanical Engineering	Radiological Contamination Search and Mapping Using Unmanned Autonomous	Savannah River Nuclear	303,227	9/26/2016	9/26/2018
	Co-PI Yim, Woosoon	Mechanical Engineering					
11/3/2017	Kim, Yoohwan	Computer Science	Investigating the Effect of Data Locality in Big Data Processing	National Science Foundation	274,113	7/1/2018	6/30/2020
	Co-PI Jo, Ju-Yeon	Computer Science					
11/6/2017	Teng, Hualiang	Civil & Environmntl Eng & Const	Tier 1 University Transportation Center on Rail Infrastructure (RailTeam)	U.S. Department of Transportation	1,416,900	12/6/2016	9/30/2022
10/31/2017	Zhao, Hui	Mechanical Engineering	Bioinspired Graphene-Enabled Energy-Harvesting Multifunctional Photovoltaic	National Science Foundation	333,628	8/1/2018	7/31/2021
10/29/2017	Barzilov, Alexander	Mechanical Engineering	Nuclear Engineering Fellowships at University of Nevada, Las Vegas	Nuclear Regulatory Commission	397,911		
	Co-PI Culbreth, William	Mechanical Engineering					
10/26/2017	Barzilov, Alexander	Mechanical Engineering	Nuclear Engineering Fellowship Program at UNLV	Nuclear Regulatory Commission	40,000	9/30/2015	9/29/2019
10/31/2017	Moon, Jaeyun	Mechanical Engineering	Degradation of Perfluorinated and Polyfluoroalkyl Substance in Groundwater	Desert Research Institute	99,927	3/1/2018	2/28/2019
11/1/2017	Zhao, Hui	Mechanical Engineering	Collaborative Research: Anomalous Colloidal Behavior in Electric Field Directed	National Science Foundation	306,718	7/1/2018	6/30/2021
11/9/2017	Venkat, Rama	Dean, College of Engineering	UNLV-TBE Payload Development	Teledyne Brown Engineering, Inc-	7,607	8/3/2015	2/28/2018
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
11/9/2017	Zhan, Justin (Zhijun)	Computer Science	Deep Learning for Bromate Ion (BrO3) Identification for Improving Water Quality	METAWATER	20,000	10/1/2017	2/28/2018
11/15/2017	Kim, Yoohwan	Computer Science	Developing a Framework to Achieve High Performance for HAIPE-Encrypted TCP	National Science Foundation	498,642	7/1/2018	6/30/2021
	Co-PI Jo, Ju-Yeon	Computer Science					
11/14/2017	Latifi, Sharam	Elec & Comp Engineering	CSR: Small: A Cognitive Security Framework for Internet of Things-Based Cyber	National Science Foundation	498,841	7/1/2018	6/30/2021
11/9/2017	Selvaraj, Henry	Elec & Comp Engineering	Development of a Novel Hybrid Algorithm for Early Detection of Diabetic	National Institutes of Health	326,679	8/1/2018	7/31/2021
	Co-PI Gewali, Laxmi	Computer Science					
11/30/2017	Hartmann, Thomas	Mechanical Engineering	TEM-Repair to Allow for Imaging and Structural Investigation of Radioactive	U.S. Department of Energy	65,000	8/1/2018	7/31/2019
12/18/2017	Sun, Ke-Xun	Elec & Comp Engineering	Neutron Radiation Hardness of GaN and Wide Bandgap Semiconductors - Task	Mission Support and Test	316,000	12/14/2017	9/30/2018
12/21/2017	Baker, R. Jacob	Ctr Eng Matrls Tech (EMITION)	ASIC - Transimpedance Amplifier (TIA) Integrated Circuit Design and Fabrication -	Mission Support and Test	100,436	12/21/2017	10/31/2018
12/21/2017	Paz-Cruz, Alexander	Transportation Research Center	Work Plan for the Testing of Demand Responsive Transverse Rumble Strips on	Nevada Department of	659,524	3/1/2018	6/30/2019
	Co-PI Morris, Brendan	Transportation Research Center					
	Co-PI Trabia, Mohamed	Mechanical Engineering					
12/21/2017	Baker, R. Jacob	Elec & Comp Engineering	Dual Mode, Extended Near-Infrared, Focal Plane Arrays Fabricated with a	Freedom Photonics LLC/FPT	149,503	3/1/2018	2/28/2019
12/7/2017	Paz-Cruz, Alexander	Transportation Research Center	Design, Prototyping and Field Testing of Demand Responsive Rumble Strips for	Governor's Office of Economic	150,000	7/1/2017	6/30/2018
	Co-PI Kachroo, Pushkin	Transportation Research Center					
	Co-PI Oh, Paul	Mechanical Engineering					
12/7/2017	Venkat, Rama	Dean, College of Engineering	UNLV-TBE Payload Development	Teledyne Brown Engineering, Inc-	7,535	10/1/2016	2/28/2018
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
12/7/2017	Boehm, Robert	Center for Energy Research	2017 Nexus UROP Scholarships & WFD	NV System of Higher Education	1,405	6/1/2017	5/30/2018
	Co-PI Batista, Jacimaria	Civil & Environmntl Eng & Const					

12/21/2017	Boehm, Robert	Center for Energy Research	2017 Nexus Special Projects Match Year 5	NV System of Higher Education	12,800	6/1/2017	5/30/2018
	Co-PI Batista, Jacimaria	Civil & Environmntl Eng & Const					
12/14/2017	Ahmad, Sajjad	Civil & Environmntl Eng & Const	Partner Center for Advanced Studies in Water (PCASW) at the University	University of Utah	65,000	8/16/2016	12/31/2018
<b>EGR</b>	<b>40</b>				<b>Total 10,160,718</b>		
10/12/2017	Serafica, Reimund	Ctr Biobeh Interdiscp Sci	Exploration of Dietary Bioculturalism Among First Generation Filipino Immigrants	National Institutes of Health	373,750	7/1/2018	6/30/2020
	Co-PI <b>Morris, Brendan</b>	<b>Elec &amp; Comp Engineering</b>					
	Co-PI Webber, Kelly	Kinesiology and Nutrition Sci					
4/6/2018	<b>Proposals - January 1, 2018 - March 31, 2018</b>						
<b>Submit Date</b>	<b>PI Name</b>	<b>Dept</b>	<b>Project Title</b>	<b>Agency</b>	<b>Total</b>	<b>Proposed Start Date</b>	<b>Proposed End Date</b>
1/9/2018	Chen, Yitong	Center for Energy Research	Small Modular Reactor (SMR) of Thorium Molten Salt Reactor (TMSR) Design	Utah Thorium Power Corporation	603,419	1/1/2018	12/31/2018
1/10/2018	Venkat, Rama	Dean, College of Engineering	UNLV-TBE Payload Development	Teledyne Brown Engineering, Inc-	10,590	10/1/2016	2/28/2018
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
1/17/2018	Park, Jee Woong	Civil & Environmntl Eng & Const	Mass Shootings in Enclosed Spaces: Applying Analytic Algorithms, Sensor	National Science Foundation	371,248	8/1/2018	7/31/2020
	Co-PI Morris, Brendan	Elec & Comp Engineering					
1/23/2018	Shrestha, Pramen	Civil & Environmntl Eng & Const	Framework for Implementing Constructability across the Entire Project	California State Polytechnic	87,501	3/1/2018	2/29/2020
1/23/2018	Gerrity, Daniel	Civil & Environmntl Eng & Const	BACTcontrol: On-line Quantification of E.coli in Drinking Water and Recycled	Nevada Center of Excellence dba	20,000	12/28/2017	12/28/2018
1/23/2018	Jo, Ju-Yeon	Computer Science	SFS: Capacity Track: Developing a Community-Driven Cybersecurity Degree	National Science Foundation	499,874	7/1/2018	6/30/2021
	Co-PI Kim, Yoohwan	Computer Science					
	Co-PI Moody, Gregory	Management Information Systems					
	Co-PI Taghva, Kazem	Computer Science					
	Co-PI Venkat, Rama	Elec & Comp Engineering					
1/19/2018	Shrestha, Pramen	Civil & Environmntl Eng & Const	Estimating Construction Contract Time: A Guidebook	Applied Research Associates, Inc	74,916	4/2/2018	11/10/2019
1/19/2018	Choi, Jin Ouk	Civil & Environmntl Eng & Const	Achieving Higher Levels of Standardized Facility Design in the Upstream,	University of Texas, Austin	122,673	5/1/2017	9/30/2019
1/23/2018	Sun, Ke-Xun	Elec & Comp Engineering	Precision Time and Frequency Transfer Technique - Task 31	National Security Technologies	231,000	1/23/2018	12/31/2018
1/23/2018	Paz-Cruz, Alexander	Transportation Research Center	Pedestrian Comfort and Demonstration Project	Hickory Ridge Group	97,980	4/1/2018	4/30/2019
1/23/2018	Yfantis, Evangelos	Computer Science	FIREx - An Intelligent Real Time Forest Fire Advisory System	National Science Foundation	909,459	5/15/2018	5/14/2021
	Co-PI Harris, Sarah	Elec & Comp Engineering					
2/5/2018	Morris, Brendan	Transportation Research Center	MRI: Acquisition of Self-Driving Research Platform for Safer Mixed Human-Robot	National Science Foundation	295,957	8/1/2018	7/31/2021
	Co-PI Oh, Paul	Mechanical Engineering					
	Co-PI Paz-Cruz, Alexander	Civil & Environmntl Eng & Const					
1/26/2018	Harris, Sarah	Elec & Comp Engineering	INBRE: Dynamic Intelligence for Control of a Foot-Ankle Prosthesis	University of Nevada, Reno	14,140	5/15/2018	5/14/2019
3/2/2018	Paz-Cruz, Alexander	Transportation Research Center	Second Generation of Demand-Responsive Transverse Rumble Strips for	Transportation Research Board	99,999	1/6/2018	6/30/2020
	Co-PI Morris, Brendan	Transportation Research Center					
	Co-PI Trabia, Mohamed	Mechanical Engineering					
3/2/2018	Park, Jee Woong	Civil & Environmntl Eng & Const	Embedded Safety Communication System for Robust Hazard Perception of	CPWR The Center for	29,997	7/1/2018	6/30/2019
2/8/2018	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-	8,701	8/3/2015	2/28/2018
	Co-PI Bernacki, Matthew	Educ Psy & Higher Edu					
	Co-PI Nasoz, Fatma	Computer Science					
	Co-PI Watkins, Helga	Dean, College of Fine Arts					
3/6/2018	Choi, Jin Ouk	Civil & Environmntl Eng & Const	CRISP 2.0 Type 1: Wildfire Disaster Recovery: A Modular-Based Reconstruction	National Science Foundation	627,615	9/1/2018	8/31/2021
	Co-PI Lim, Jaewon	School of Pub Policy & Ldshp					
3/7/2018	Gerrity, Daniel	Civil & Environmntl Eng & Const	CRISP 2.0 Type 1: Interdependent Water Infrastructure in a Potable Reuse	National Science Foundation	747,026	1/1/2019	12/31/2021
	Co-PI Marti, Erica	Civil & Environmntl Eng & Const					
	Co-PI Ray, Ranita	Sociology					
2/13/2018	Oh, Paul	Mechanical Engineering	IRES Track 3: US-Korea Partnership: Advancing Hotel Automation and Robotics,	National Science Foundation	899,000	10/1/2018	9/30/2021
	Co-PI Lim, Jaewon	School of Pub Policy & Ldshp					
	Co-PI Rippee, Robert	International Gaming Institute					
2/23/2018	Kim, Si Jung	Dean, College of Engineering	REU Site: The STEM Strip: Entertainment Engineering Learning and Experience of	National Science Foundation	540,694	2/1/2018	12/31/2020
	Co-PI James, David	Civil & Environmntl Eng & Const					
	Co-PI Rippee, Robert	International Gaming Institute					
3/1/2018	Kim, Kwang	Mechanical Engineering	Advanced Electroactive Polymer Actuators and Sensors for Aerospace Robotic	EPSCoR/National Aeronautics &	24,652	9/1/2013	8/31/2018
	Co-PI Lee, Dong-Chan	Chemistry & Biochemistry					
	Co-PI Yim, Woosoon	Mechanical Engineering					
2/23/2018	Chen, Yitong	Center for Energy Research	Down-Selection of the Cladding Materials for Molten Salt Nuclear Reactors	University of Illinois	349,977	10/1/2018	9/30/2021
2/17/2018	Chen, Yitong	Center for Energy Research	Fluoride Salt Cooled High Temperature Reactors Transient Behavior Analysis	U.S. Department of Energy	799,696	10/1/2018	9/30/2021
2/15/2018	Batista, Jacimaria	Civil & Environmntl Eng & Const	Bench-Scale Evaluation to Support ZVI-Enhanced Bioremediation (Bio-ZVI) at	Ramboll US Corporation, a	244,635	2/15/2018	6/30/2019
2/5/2018	Boehm, Robert	Center for Energy Research	2017 Nexus UROP Scholarships & WFD	NV System of Higher Education	10,000	6/1/2017	5/30/2018
	Co-PI Batista, Jacimaria	Civil & Environmntl Eng & Const					
2/5/2018	Bansal, Shubhra	Mechanical Engineering	Metastability and Long-Term Degradation in CIGS Devices: Effect of Alkali	U.S. Department of Energy	280,540	4/1/2017	3/31/2019
2/7/2018	Trabia, Mohamed	Mechanical Engineering	INBRE: Longitudinal Evaluation of Plantar Tissue Stiffness Changes in Diabetics	University of Nevada, Reno	14,764	4/1/2018	3/31/2019

	Co-PI Dufek, Janet	Kinesiology and Nutrition Sci						
2/22/2018	Co-PI Izuora, Kenneth James, David	Internal Medicine Civil & Environmntl Eng & Const	Evaluation of Approaches to Determine Mixing and Assimilation of Reuse Effluent	U.S. Bureau of Reclamation	190,000	6/2/2017	9/30/2019	
	Co-PI Gerrity, Daniel	Civil & Environmntl Eng & Const						
	Co-PI Hayes, Donald	Civil & Environmntl Eng & Const						
2/7/2018	Co-PI Stephen, Haroon	School of Pub Policy & Ldshp						
	Yim, Woosoon	Mechanical Engineering	IRES Track 1: Highly Sustainable and Safe UAS Based Low-Altitude Radiation	National Science Foundation	299,934	7/1/2018	6/30/2021	
	Co-PI Barzilov, Alexander	Mechanical Engineering						
2/1/2018	Zhan, Justin (Zhijun)	Computer Science	Establishing an Army Educational Outreach Program Site in Data Science and	Technology Student Association	36,756	6/1/2016	12/31/2018	
2/7/2018	Kim, Kwang	Mechanical Engineering	EFRI C3 SoRo: A Bioinspired Framework for Enabling Morphological Adaptation of	University of Nevada, Reno	145,000	9/1/2018	8/31/2022	
2/7/2018	Moon, Jaeyun	Mechanical Engineering	Collaborative Research: Improving the Performance of Zero-Valent Nanoparticles	National Science Foundation	99,036	8/1/2018	7/31/2021	
2/7/2018	Zhao, Hui	Mechanical Engineering	Bioinspired Self-Healing Robust Super-Hydrophobic Surfaces	National Science Foundation	361,180	9/1/2018	8/31/2021	
	Co-PI Zhai, Shengjie	Mechanical Engineering						
3/13/2018	Marti, Erica	Civil & Environmntl Eng & Const	RII Track-4: Advanced Techniques for Assessing Toxicity and Chemical Uptake in	National Science Foundation	189,945	12/13/2018	12/12/2020	
3/12/2018	Paz-Cruz, Alexander	Transportation Research Center	Developing a Quality of Signal Timing Performance Methodology for Arterial	Nevada Department of	253,381	1/1/2018	12/31/2020	
3/12/2018	Paz-Cruz, Alexander	Transportation Research Center	Development and Deployment of a High Fidelity Motion and Virtual Reality-Based	Nevada Department of	266,302	1/1/2018	12/31/2018	
3/20/2018	Khan, Eakalak	Civil & Environmntl Eng & Const	A Sustainable Point-of-Use Filtration Unit for Treating Pesticide Contaminated	North Dakota State University	9,000	5/1/2018	9/15/2018	
3/20/2018	Khan, Eakalak	Civil & Environmntl Eng & Const	TARDEC Corrosion Prevention and Control, Vehicle Construction Materials and	North Dakota State University	42,447	5/1/2018	1/31/2019	
3/22/2018	Breen, Erin	Transportation Research Center	Vulnerable Road Users Project	Nevada Office of Traffic Safety	156,924	10/1/2018	9/30/2019	
3/22/2018	Kachroo, Pushkin	Transportation Research Center	Traffic Safety Records Database Integration	Nevada Office of Traffic Safety	51,932	10/1/2018	9/30/2019	
3/22/2018	Kachroo, Pushkin	Transportation Research Center	Observational Seat Belt Usage Survey FY 19	Nevada Office of Traffic Safety	93,138	10/1/2018	9/30/2019	
3/22/2018	Kachroo, Pushkin	Transportation Research Center	Child Safety Seat and Seat Belt Attitudinal Survey	Nevada Office of Traffic Safety	51,932	10/1/2018	9/30/2019	
3/28/2018	Batista, Jacimaria	Civil & Environmntl Eng & Const	ZVI, Citric Acid and Chloroform: Additional Tasks added to the Bench-Scale	Tetra Tech, Inc	178,432	5/1/2018	10/31/2018	
3/19/2018	Jo, Ju-Yeon	Computer Science	Defending IoT and SCADA Systems in Critical Infrastructures from Cyber Attacks	National Nuclear Security	2,192,388	8/1/2018	7/31/2021	
	Co-PI Kim, Yoohwan	Computer Science						
3/29/2018	Co-PI Paz-Cruz, Alexander	Transportation Research Center	Study of some Effects Associated with the Deployment of Autonomous and	City of Las Vegas	44,492	5/1/2018	6/30/2019	
	Co-PI Coughenour, Courtney	Environ & Occup Health						
	Co-PI Morris, Brendan	Transportation Research Center						
3/13/2018	Bansal, Shubhra	Center for Energy Research	RII Track 4: In-Situ Stability of Novel Wide Bandgap Pb-Free Perovskite Based	National Science Foundation	252,214	10/1/2018	9/30/2020	
3/15/2018	Zhao, Hui	Mechanical Engineering	Development of a Multi-Scale Mathematical Model for Chip-Based	National Institutes of Health	143,071	2/1/2019	1/31/2021	
3/29/2018	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-	7,046	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						
3/26/2018	Boehm, Robert	Center for Energy Research	Regional Test Center Phase III	Sandia National Laboratories	80,550	3/14/2016	9/30/2018	
<b>EGR 49</b>					<b>Total 13,161,153</b>			
2/8/2018	Hardin, Andrew	Troesch Ctr Epren & Innovation	Type II: UNLV Lean Entrepreneurship Advancement Program (LEAP)	National Science Foundation	299,592	1/1/2019	12/31/2021	
	Co-PI Kachroo, Pushkin	<b>Elec &amp; Comp Engineering</b>						
	Co-PI O'Toole, Brendan	<b>Mechanical Engineering</b>						
3/12/2018	Hardin, Andrew	Mgmt, Entrepreneurship & Tech	I-Corps Sites: UNLV Lean Entrepreneurship Advancement Program	National Science Foundation	94,240	1/15/2016	12/31/2018	
	Co-PI Kachroo, Pushkin	<b>Transportation Research Center</b>						
	Co-PI O'Toole, Brendan	<b>Mechanical Engineering</b>						
1/26/2018	Tettegah, Sharon	Teaching and Learning	Coordinating Curricula and User Preferences to Maximize the Participation of	National Science Foundation	299,900	8/1/2018	7/31/2020	
	Co-PI Jiang, Yingtao	<b>Elec &amp; Comp Engineering</b>						
	Co-PI Perera, Harsha	Educ Psy & Higher Edu						
7/6/2018	<b>FY 18 4th Quarter Proposals - April 1, 2018 - June 30, 2018</b>							
<b>Submit Date</b>	<b>PI Name</b>	<b>Dept</b>	<b>Project Title</b>	<b>Agency</b>	<b>Total</b>	<b>Proposed Start Date</b>	<b>Proposed End Date</b>	
4/3/2018	Sherman, Ryan	Civil & Environmntl Eng & Const	Sensor Evaluation for Structural Steel Fatigue Analysis - Task 1	Metal Fatigue Solutions, Inc	5,000	1/1/2018	6/30/2019	
4/6/2018	Boehm, Robert	Center for Energy Research	Regional Test Center Phase III	Sandia National Laboratories	1,000	3/14/2016	3/31/2019	
4/2/2018	Batista, Jacimaria	Civil & Environmntl Eng & Const	Galleria Road and Las Vegas Wash Areas: Bench Scale Investigations of In-situ	Tetra Tech, Inc	166,880	4/15/2018	10/15/2018	
4/2/2018	Morris, Brendan	Transportation Research Center	Target Tracking via Deep Learning Phase II	Toyon Research Corporation-FPT	249,312	10/1/2018	12/31/2020	
4/17/2018	Kim, Si Jung	Dean, College of Engineering	A Survey and Analysis of Animatronics and a Creation of Movie Clip of Tele-	Korea Institute of Industrial	52,895	7/1/2017	12/31/2018	
4/18/2018	Venkat, Rama	Dean, College of Engineering	UNLV- TBE Payload Development	Teledyne Brown Engineering, Inc-	23,685	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						
4/30/2018	Paz-Cruz, Alexander	Transportation Research Center	Second Generation of Demand-Responsive Transverse Rumble Strips for	Transportation Research Board	99,990	9/1/2018	8/30/2020	
	Co-PI Morris, Brendan	Elec & Comp Engineering						
	Co-PI Trabia, Mohamed	Mechanical Engineering						
4/30/2018	Boehm, Robert	Center for Energy Research	2017 Nexus UROP Scholarships & WFD	NV System of Higher Education	3,718	6/1/2017	11/30/2018	
	Co-PI Batista, Jacimaria	Civil & Environmntl Eng & Const						
5/2/2018	Batista, Jacimaria	Civil & Environmntl Eng & Const	Diffusion Evaluation at the Athens Road Well Field, (NERT) Site, Henderson,	Ramboll US Corporation, a	75,335	6/8/2018	1/31/2018	

5/3/2018	Moon, Jaeyun	Center for Energy Research	Enhancing the Performance of Novel Integrated Solar Still-Multi Effect HDH	National Academy of Sciences	199,583	6/1/2019	5/31/2021
	Co-PI Chen, Yitong	Mechanical Engineering					
5/8/2018	Kim, Kwang	Mechanical Engineering	EAP Soft Micro-Sensor Array for Naval Applications	Office of Naval Research	128,132	4/1/2016	3/31/2019
5/1/2018	Moon, Jaeyun	Center for Energy Research	Development of Zigzag-Skeleton Thermoelectric Module Incorporated with SIC-	Korea Institute of Energy	99,925	11/1/2017	10/31/2018
5/3/2018	Boehm, Robert	Center for Energy Research	The Solar Energy-Water-Environment Nexus in Nevada - UROP Scholarships	NV System of Higher Education	2,252	7/1/2016	5/30/2018
	Co-PI Batista, Jacimaria	Civil & Environmntl Eng & Const					
5/1/2018	Hartmann, Thomas	Mechanical Engineering	Joint Appointment Agreement with Idaho National Laboratory - Release 2	Battelle Energy Alliance, LLC	10,387	4/20/2018	9/30/2018
5/16/2018	Kim, Si Jung	Dean, College of Engineering	Design, Evaluation and Implementation of an Augmented Laparoscopic Training	Las Vegas Minimally Invasive	15,636	5/1/2018	12/31/2018
5/17/2018	Stefik, Andy	Computer Science	Collaborative Research: AccessCS for All: Including Students with Disabilities in at	National Science Foundation	16,000	9/1/2017	8/31/2020
5/22/2018	Shrestha, Pramen	Civil & Environmntl Eng & Const	Digitizing Building Information to Build Models for Effective Engineering and	Savannah River Nuclear	246,295	8/1/2018	7/31/2019
	Co-PI Park, Jee Woong	Civil & Environmntl Eng & Const					
5/22/2018	Khan, Eakalak	Civil & Environmntl Eng & Const	Simultaneous Remediation of Multiple Groups of Contaminants in Groundwater	Savannah River Nuclear	256,258	9/1/2018	8/31/2019
	Co-PI Marti, Erica	Civil & Environmntl Eng & Const					
5/22/2018	Marti, Erica	Civil & Environmntl Eng & Const	Solar Photocatalytic Remediation of Organic and Inorganic Contaminants in	Savannah River Nuclear	276,597	9/1/2018	8/31/2019
	Co-PI Khan, Eakalak	Civil & Environmntl Eng & Const					
5/31/2018	Kim, Kwang	Mechanical Engineering	Soft-Robots Housing Smart Preventive IR-Based Inspection System	Savannah River Nuclear	301,447	7/1/2018	6/30/2019
	Co-PI Moon, Jaeyun	Mechanical Engineering					
5/25/2018	Stefik, Andy	Computer Science	ECR DCL Level 2: Perceptual and Implementation Strategies for Knowledge	National Science Foundation	8,000	1/15/2017	12/31/2019
5/23/2018	Moon, Jaeyun	Mechanical Engineering	Collaborative Research: Inactivation of Viruses and Bacteria in Water Using	National Science Foundation	153,740	1/1/2019	12/31/2021
5/31/2018	Barzilov, Alexander	Mechanical Engineering	Field Deployable Gas Chromatography Technology for Precise Real-Time	Savannah River Nuclear	600,000	8/15/2018	8/14/2020
5/31/2018	Barzilov, Alexander	Mechanical Engineering	Radiological Contamination Search and Mapping Using Unmanned Autonomous	Savannah River Nuclear	274,251	9/27/2018	9/26/2019
	Co-PI Yim, Woosoon	Mechanical Engineering					
5/31/2018	Moon, Jaeyun	Mechanical Engineering	Chlorinated Solvents Remediation using Cost-Effective/Reusable Novel	Savannah River Nuclear	449,900	8/1/2018	7/31/2020
5/31/2018	Zhao, Hui	Mechanical Engineering	Developing a Hand-Held Quantitative Part-per-Trillion Level Mobile Liquid Crystal	Savannah River Nuclear	205,170	9/1/2018	8/31/2019
	Co-PI Zhai, Shengjie	Mechanical Engineering					
6/6/2018	Baker, R. Jacob	Elec & Comp Engineering	Geiger Mode SiGe Receiver for Long-Range Optical Communications	Freedom Photonics LLC/FPT	99,569	4/9/2018	4/8/2020
6/27/2018	Park, Jee Woong	Civil & Environmntl Eng & Const	Enhanced Personal Protection Equipment to Expand Hazard Awareness	Association for Iron & Steel	10,000	11/1/2018	10/31/2019
6/15/2018	Zhao, Hui	Mechanical Engineering	The Integration of Plasmonic Nanoantenna and Super-Hydrophobic Surface for	National Institutes of Health	143,070	6/1/2019	5/31/2021
6/26/2018	Bansal, Shubhra	Center for Energy Research	Novel High Z Perovskite Materials for X-, Gamma-Ray and Charged Particles	EPSCoR/National Aeronautics &	24,999	9/1/2018	8/31/2019
	Co-PI Barzilov, Alexander	Mechanical Engineering					
6/26/2018	Bansal, Shubhra	Center for Energy Research	Novel High Z Perovskite Materials for X-, Gamma-Ray and Charged Particles	NV System of Higher Education	24,999	9/1/2018	8/31/2019
	Co-PI Barzilov, Alexander	Mechanical Engineering					
6/22/2018	Kim, Yoohwan	Computer Science	TCP-GEN Framework to Achieve High Performance for HAIPE-Encrypted Satellite	U.S. Department of Defense	20,000	12/1/2018	8/31/2019
	Co-PI Jo, Ju-Yeon	Computer Science					
6/14/2018	Shrestha, Pramen	Civil & Environmntl Eng & Const	A Study of the U.S. Roofing Industry and its Workforce	National Roofing Contractors	70,000	7/30/2018	11/22/2019
6/27/2018	Kim, Kwang	Mechanical Engineering	Deployable & Modular In-Space 3D Printer Concept Development	Jet Propulsion Laboratory	15,000	6/25/2018	9/30/2018
6/26/2018	Oh, Paul	Mechanical Engineering	Leveraging Human Electrocardiogram Signals for UAV Security Enhancement	University of Nevada, Reno	5,000	9/1/2018	8/31/2019
6/26/2018	Oh, Paul	Mechanical Engineering	Leveraging Human Electrocardiogram Signals for UAV Security Enhancement -	Univ. of Nevada, Reno	5,000	9/1/2018	8/31/2019
6/26/2018	Oh, Paul	Mechanical Engineering	Smart Material Active Morphing Wing Design for Green Unmanned Aerial Systems	University of Nevada, Reno	8,333	9/1/2018	8/31/2019
6/26/2018	Oh, Paul	Mechanical Engineering	Smart Material Active Morphing Wing Design for Green Unmanned Aerial Systems	Univ. of Nevada, Reno	8,333	9/1/2018	8/31/2019
<b>EGR</b>	<b>38</b>				<b>Total 4,355,691</b>		
6/29/2018	Coughenour, Courtney	Environ & Occup Health	Determining what makes Traffic Injury Prevention Campaigns most Effective - The	AAA Foundation for Traffic Safety	183,999	1/7/2019	3/31/2020
	Co-PI Bungum, Tim	Environ & Occup Health					
	Co-PI Gakh, Maxim	Environ & Occup Health					
	Co-PI Paz-Cruz, Alexander	Civil & Environmntl Eng & Const					
	Co-PI Pharr, Jennifer	Environ & Occup Health					
	Co-PI Wu, Qing	Environ & Occup Health					
5/15/2018	Poineau, Frederic	Chemistry & Biochemistry	Room Temperature Preparation of Actinide Metals	U.S. Department of Energy	740,530	9/15/2018	9/14/2019
	Co-PI Barzilov, Alexander	Mechanical Engineering					
	Co-PI Hatchett, David	Chemistry & Biochemistry					
					<b>FY Total 45,083,677</b>		