

ROWAN UNIVERSITY SPONSORED PROGRAMS QUARTERLY ACTIVITY REPORT

Current Activity: FY19

Q3 research expenditures: \$ 6,632,761.86
 YTD expenditures: \$ 34,690,834.63

Proposals Submitted and Awards Received January 1, 2019 - March 31, 2019

	#	Q3 FY19	YTD #	YTD FY19
Proposals Submitted	136	\$ 69,667,991	353	\$ 133,683,911
NJ Awards	0	\$ -	17	\$ 2,004,091
Federal Awards	13	\$ 2,901,196	54	\$ 11,613,679
Private/Industry	33	\$ 1,641,199	69	\$ 4,852,338
Total Awards	46	\$ 4,542,395	140	\$ 18,470,108

Comparative Data: Prior FY

Proposals Submitted and Awards Received January 1, 2018- March 31, 2018

	#	Q3 FY18	YTD #	YTD FY18
Proposals Submitted	93	\$ 38,804,375	278	\$ 91,073,847
NJ Awards	6	\$ 9,700,869	22	\$ 12,134,833
Federal Awards	10	\$ 2,597,711	43	\$ 10,821,137
Private/Industry	19	\$ 1,388,169	41	\$ 2,553,203
Clinical/Service	-	\$ 4,237	-	\$ 40,229
Total Awards	35	\$ 13,690,986	106	\$ 25,549,402

Q3 research expenditures: \$ 5,053,310.22
 Y-T-D research expenditures: \$ 16,046,225.35

Project Title	Award Amount	Indirect Cost Total	Lead PI	Other Personnel	Sponsor	Proposal Prime Sponsor	Award Admin Dept	Award Begin Date	Award End Date
Admin (3) \$ 55,048									
Augmented Reality Applications	\$ 25,000	\$ 8,333	Shreekanth Mandayam		Naval Sea Systems Command (NAVSEA)		VR Lab	1/14/2019	8/31/2019
Augmented Reality Experience for Anthem Chief Digital Officer	\$ 15,000	\$ 5,000	Shreekanth Mandayam		Anthem, Inc.		VR Lab	1/14/2019	6/1/2019
Entertainment Data Visualization Inside a Virtual Reality Trade Booth for Internet Video Archive	\$ 15,048	\$ 5,016	George Lecakes		Internet Video Archives LLC		VR Lab	12/31/2018	9/30/2019
CHSS (1) \$ 51,947									
Promoting quantitative analysis capabilities and applied research on citizen security in Central America	\$ 51,947	\$ 10,719	Joel Capellan		John Jay College of Criminal Justice	United States Agency for International Development (USAID)	Law/Justice	8/1/2018	9/30/2019
CMSRU (4) \$ 163,964									
CMSRU Clinic's Dental Health Initiative Pilot Program	\$ 1,000	\$ -	Andrea Bottaro		Delta Dental of New Jersey Foundation		CMSRU Biomedical Science	1/1/2019	12/31/2019
Post resuscitation PaCO2 and neurological outcome after cardiac arrest	\$ 157,464	\$ 11,664	Brian Roberts		National Institutes of Health (NIH)		CMSRU Dean	4/1/2019	3/31/2020
MCAT preparation course- Premedical Urban Leaders Summer Enrichment (PULSE) program	\$ 1,500	\$ -	Jocelyn Mitchell-Williams		Dolfinger-McMahon Foundation		CMSRU Multicultural Affairs	6/3/2019	4/27/2020
Formation of a Multi-Institutional Consortium for Victims of Domestic Violence & Sexual Assault: Medical Students as Crisis Counselors	\$ 4,000	\$ -	Prasanth Romiyo		The New York Academy of Medicine		CMSRU Multicultural Affairs	7/1/2019	9/13/2019
CPS (1) \$ 3,225									
Mid Atlantic Touring Grant, The Crossing	\$ 3,225	\$ -	Deborah Shapiro		Mid Atlantic Arts Foundation	National Endowment for the Arts (NEA)	Performing Arts Dean	1/9/2019	2/8/2019
CSM (7) \$ 326,824									
Gut microbiome suppression of fungal honey bee brood pathogens	\$ 39,500	\$ -	Svjetlana Vojvodic		Project Apis m.	Project Apis m.	Biological Sciences	1/15/2019	12/31/2019
Signaling mechanisms in VIBRIO Cholerae Parallel quorum sensing pathways	\$ 29,292	\$ 9,764	Lark Perez		Tufts University	National Institutes of Health (NIH)	Chemistry & Biochemistry	12/1/2018	11/30/2019
Analgesia without Addiction: Synthesis and Development of Highly Selective Novel Analgesics	\$ 35,000	\$ -	Thomas Keck	Gustavo Moura-Letts	New Jersey Health Foundation, Inc. (NJHF)		Chemistry & Biochemistry	2/15/2019	2/15/2020
ATD: New Approaches for Anomaly Detection in Spatiotemporal Data	\$ 18,000	\$ 6,000	Shen-Shyang Ho		National Science Foundation (NSF)		Computer Science	9/1/2018	7/31/2021
Identifying and Targeting Unique Physical Activity Determinants for Midlife Women	\$ 152,828	\$ 11,321	Danielle Arigo		National Institutes of Health (NIH)		Psychology	3/1/2019	2/29/2020
Mindfulness to Promote Healthy Aging in Older Adults with Mild Cognitive Impairment	\$ 31,591	\$ -	Jeffrey Greeson	Lisa Bodenheimer, Sean McBride	New Jersey Health Foundation, Inc. (NJHF)		Psychology	2/15/2019	2/15/2020
Human Factors research and consulting for ECRI Institute	\$ 20,613	\$ 4,253	Patrice Tremoulet		ECRI Institute		Psychology	1/1/2018	12/31/2018
EDU (3) \$ 119,372									
Using Strings to Increase Engagement and Change Discourse in Secondary Math Classrooms	\$ 6,000	\$ -	Rob Wieman	Jill Perry	National Council of Teachers of Mathematics		Center for Access, Success, and Equity Center for Access, Success, and Equity	7/1/2019	9/1/2020
Transforming Student Voice	\$ 63,394	\$ 8,269	Shelley Zion		University of Colorado - Boulder	Hewlett Foundation		10/8/2018	10/8/2021
Translanguaging as Resistance and Restoration: Languages and Literacies in a Bilingual Community Writing Program	\$ 49,978	\$ -	Stephanie Abraham	Kate Kedley	Spencer Foundation		Lang, Lit & Sociocult Edu	1/1/2019	8/31/2020
ENG (15) \$ 309,849									
Establishing a mechanistic link between cerebral blood flow and the blood-brain barrier	\$ 71,500	\$ 6,500	Peter Galie		American Heart Association		Biomedical Engineering	1/1/2019	12/31/2019
FFS: Coperion Fee-for-Service Account	\$ 145	\$ 48	Joseph Stanzione		Coperin		Chemical Engineering	8/1/2018	7/30/2023
Palmer International: FFS Agreement	\$ 600	\$ 200	Joseph Stanzione		Palmer International, Inc.		Chemical Engineering	10/1/2018	9/30/2019
Regional UTC Program	\$ 10,000	\$ 2,077	Rouzbeh Nazari		Rutgers, The State University of New Jersey	US Department of Transportation	Civil/Env Engineering	9/1/2018	9/30/2020
Performance Testing Asphalt	\$ 4,315	\$ 1,438	Caitlin Purdy		Earle Companies		CREATES	1/1/2019	12/31/2019
Air Void check on Crisdel Road Cores	\$ 1,693	\$ 564	Caitlin Purdy		Crisdel Group, Inc.		CREATES	1/1/2019	12/31/2019

Project Title	Award Amount	Indirect Cost Total	Lead PI	Other Personnel	Sponsor	Proposal Prime Sponsor	Award Admin Dept	Award Begin Date	Award End Date
Identification of a Signature Chemical Property(ies) and/or Index of a Binder that can predict Binder Performance under Long Term Aging Condition from Data Collected after Short Term Aging	\$ 50,000	\$ 16,667	Caitlin Purdy	Yusuf Mehta	Paulsboro Refining Company, LLC		CREATES	1/1/2019	12/31/2019
Conduct Beam Fatigue Test of Hot Mix Asphalt. Evaluation of absorption of COVANTA aggregates	\$ 973	\$ 324	Yusuf Mehta		Allan Myers Materials		CREATES	1/1/2019	12/31/2019
Health Hack - Developing and testing a portable 3-D fluorescent microscope for quick dermatologic diagnosis	\$ 40,000	\$ 13,334	Yusuf Mehta	Caitlin Purdy, Hashim Rizvi	COVANTA		CREATES	1/1/2018	12/31/2019
Real-time Imaging Guidance for Curative Cancer Surgery	\$ 10,000	\$ -	Ben Wu	Xiao Hu, Ying Tang	Inspira Medical Centers Inc		Electrical/Computer Engineering	11/1/2018	10/30/2019
EnaBLE - An Enhanced Bionic Limb	\$ 34,900	\$ -	Ben Wu	Spencer Brown, Xiao Hu, Ying Tang	New Jersey Health Foundation, Inc. (NJHF)		Electrical/Computer Engineering	2/15/2019	2/15/2020
Flying Fish Brewery Clinic Exploring Entrepreneurial Mindset Through Reading The Culture Code	\$ 35,000	\$ -	Ghulam Rasool		New Jersey Health Foundation, Inc. (NJHF)		Electrical/Computer Engineering	2/15/2019	2/15/2020
Brain Tumor on Chip for Drug Testing	\$ 15,000	\$ 5,000	John Schmalzel		Flying Fish Brewing Company LLC		Electrical/Computer Engineering	10/1/2018	4/30/2019
	\$ 724	\$ -	Kaitlin Mallouk		KERN Family Foundation		ExEEd	3/1/2019	12/15/2019
	\$ 35,000	\$ -	Amir Miri Ramsheh		New Jersey Health Foundation, Inc. (NJHF)		Mechanical Engineering	2/15/2019	2/15/2020
SEE (2) \$ 162,852									
A Coupled Antarctic Cryosphere System: Linking Ice Sheet Surface Mass Balance Processes and Ocean Surface Variability Across Coastal Antarctica	\$ 157,852	\$ 47,775	Luke Trusel		National Aeronautics Space Administration (NASA)		Geology	1/1/2019	12/31/2021
Fair Share Housing Center NJ Land Analysis 2017	\$ 5,000	\$ 1,667	John Hasse		Fair Share Housing Center		Geography, Planning, and Sust	10/30/2017	11/30/2017
SOM (10) \$ 3,349,314									
2019 Summer Medical Research Fellowship Program (SMRFP)	\$ 25,000	\$ -	Carl Hock		New Jersey Health Foundation, Inc. (NJHF)		Cell Biology & Neuroscience	6/1/2019	9/30/2019
Targeting podoplanin to prevent and treat oral cancer	\$ 479,927	\$ 181,836	Gary Goldberg		National Institutes of Health (NIH)		Molecular Biology	2/1/2019	1/31/2022
Determining the Safety of Silver Oxide-Coated Biomaterials In Vivo	\$ 35,000	\$ -	Renee Demarest	Jeffrey Hettinger, Lei Yu	New Jersey Health Foundation, Inc. (NJHF)		Molecular Biology	2/15/2019	2/15/2020
Dissecting the origins of a complex reproductive trait: nematode self fertility	\$ 305,900	\$ 115,900	Ronald Ellis		National Institutes of Health (NIH)		Molecular Biology	1/1/2019	12/31/2019
Effects of Hurricane Sandy on Functional Limitation Trajectories of Older People	\$ 509,761	\$ 149,456	Rachel Pruchno		National Institutes of Health (NIH)		New Jersey Institute for Successful Aging (NJISA)	3/1/2019	2/29/2020
A Phase II, Multi-Center, Randomized, Double-Blind, Placebo-Controlled, Parallel- Group, Efficacy, and Safety study of Ganteneruman in patients with Early (prodromal to mild) Alzheimer's Disease	\$ 826,690	\$ 223,267	Sean McBride	David Libon, Nicole Sestito	Roche Pharmaceuticals, Inc.		New Jersey Institute for Successful Aging (NJISA)	1/23/2019	1/22/2021
Phase II Study to Assess the Safety, Tolerability, and Target Engagement of AMX0035, a Fixed Combination of Sodium Phenylbutyrate and Tauroursodeoxycholic Acid for the Treatment of Alzheimer's Disease	\$ 53,314	\$ 2,539	Sean McBride	David Libon, Nicole Sestito	Amylyx Pharmaceutical Corp.		NJISA	2/26/2019	12/31/2020
DATA Waiver Training Program	\$ 1,000,000	\$ 90,910	Richard Jermyn	Kaitlan Baston	NJ Department of Human Services	US Substance Abuse and Mental Health Services Administration	Rehabilitation Medicine	3/19/2019	12/31/2019
A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Dose-Ranging, Multi-Center Clinical Trial to Evaluate the Efficacy and Safety of DaxibotulinumtoxinA for Injection for the Treatment of Upper Limb Spasticity in Adults After Stroke	\$ 78,722	\$ 18,167	Richard Jermyn	Deanna Janora	Revance Therapeutics, Inc.		Rehabilitation Medicine	1/24/2019	12/31/2020
OPEND-PORT to Life	\$ 35,000	\$ -	Richard Jermyn	Linda Boyd	New Jersey Health Foundation, Inc. (NJHF)		Rehabilitation Medicine	2/15/2019	2/20/2019
RU (46) \$ 4,542,395									

Proposals
January 1, 2019 - March 31, 2019

Title	Requested Amount	Lead PI	Other Personnel	Award Admin Department	Sponsor
Admin (6) \$76,749					
Breath Easy Rowan University	\$8,000	Scott Woodside	Allie Pearce	Student Health Services	NJ Prevention Network
College Transition Supports	\$4,976	John Woodruff		Academic Success Center	Autism Speaks Inc
Augmented Museum Initiative	\$8,725	Michael Benson	Jane Hill, Maria Rosado	Library Services	LYRASIS
Entertainment Data Visualization Inside a Virtual Reality Trade Booth for Internet Video Archive	\$15,048	George Lecakes		VR Lab	Internet Video Archives LLC
Augmented Reality Applications	\$25,000	Shreekanth Mandayam		VR Lab	Naval Sea Systems Command (NAVSEA)
Augmented Reality Experience for Anthem Chief Digital Officer	\$15,000	Shreekanth Mandayam		VR Lab	Anthem, Inc.
BUS (1) \$25,000					
Think Like An Entrepreneur Boot Camp	\$25,000	Eric Liguori		Business Dean	TD Charitable Foundation
CCCA (3) \$106,750					
Art Gallery Funding	\$30,000	Mary Salvante		Art Gallery	NJ State Council on the Arts (NJSCA)
Local Climate Change Reporting Project	\$6,775	Dianne Garyantes	Mark Berkey-Gerard	Journalism	Odessa & Henry Kahrs Trust
Singularity Press Startup	\$69,975	Megan Atwood		Writing Arts	Amazon
CHSS (2) \$289,760					
A Trauma Informed Approach to Patients: Improving the Detection of Trauma and Connection to Services	\$237,813	Jeanna Mastrocinque	Elizabeth Cerceo	Law/Justice	Robert Wood Johnson Foundation
Promoting quantitative analysis capabilities and applied research on citizen security in Central America	\$51,947	Joel Capellan		Law/Justice	John Jay College of Criminal Justice
CMSRU (12) \$1,802,286					
Enhancing Outcome Reporting from Pandemic Clinical Trials	\$453,823	Christopher Jones		CMSRU Biomedical Science	National Institutes of Health (NIH)
A critical role of the rostromedial tegmental nucleus in aversion (pain) and reward (analgesia): its putative function in pain chronification	\$241,762	Igor Elman		CMSRU Biomedical Science	Harvard University
Targeting molecular pathways implicated in Emery-Dreifuss muscular dystrophy	\$299,999	James Holaska		CMSRU Biomedical Science	Muscular Dystrophy Association
Targeting BTK and PD-1 in the treatment of relapsed and refractory Multiple Myeloma	\$100,000	Manoj Pandey		CMSRU Biomedical Science	Leukemia Research Foundation
Development of Novel ALDH inhibitor against refractory Multiple Myeloma	\$38,893	Manoj Pandey		CMSRU Biomedical Science	Penn State University Hershey Medical Center
Combination of Ketamine and Brain Stimulation (rTMS) for Treating Opioid Addiction	\$482,969	Basant Pradhan		CMSRU Dean	National Institutes of Health (NIH)
Buprenorphine's Central Mechanism in Opioid Use Disorder	\$125,325	Igor Elman		CMSRU Dean	Harvard University
Educational Opportunity Fund - PULSE	\$38,515	Jocelyn Mitchell-Williams		CMSRU Multicultural Affairs	The New Jersey Office of the Secretary of Higher Education (OSHE)

Proposals
January 1, 2019 - March 31, 2019

Title	Requested Amount	Lead PI	Other Personnel	Award Admin Department	Sponsor
Leadership through Advocacy - Creation of an Open School Network for Domestic Violence and Sexual Abuse Victim Advocacy in the State of New Jersey	\$9,000	Noor Tell		CMSRU Multicultural Affairs	Alpha Omega Alpha Honor Medical Society
Perspectives from Survivors of Domestic Violence and Sexual Assault: Building Trust in the Medical Community	\$4,000	Prasanth Romiyo		CMSRU Multicultural Affairs	The Arnold P. Gold Foundation
Formation of a Multi-Institutional Consortium for Victims of Domestic Violence & Sexual Assault: Medical Students as Crisis Counselors	\$4,000	Prasanth Romiyo		CMSRU Multicultural Affairs	The New York Academy of Medicine
Investigating Social Barriers to HIV Testing and Prevention of Mother-Child HIV transmission in a Community-based Clinic Setting in Jos Nigeria	\$4,000	Qianhui Gao		CMSRU Multicultural Affairs	The Arnold P. Gold Foundation
CPA (4) \$262,500					
2019 Summer Band Camp Grant	\$2,500	Joseph Higgins		Music	OceanFirst Foundation
Les Paul Foundation Grant for Rowan Music Industry Summer Camp	\$25,000	Mathieu Gendreau		Music	Les Paul Foundation
General Program Support for College of Performing Arts	\$135,000	Deborah Shapiro		Performing Arts Dean	NJ State Council on the Arts (NJSCA)
Pfleeger Concert Hall Stage Shell Replacement	\$100,000	Rick Dammers		Performing Arts Dean	Presser Foundation
CSM/SHP (31) \$24,399,689					
Novel Theoretical Methods for Designing All-Carbon Molecular Electronics from Petroleum Derivatives	\$55,000	Erik Hoy		Chemistry & Biochemistry	American Chemical Society- Petroleum Research Fund (ACS PRF)
Development of novel antimicrobial peptides using non-natural amino acids to enhance efficacy and reduce resistance development	\$19,000	Gregory Caputo		Chemistry & Biochemistry	British Society for Antimicrobial Chemotherapy
Mid-Scale RI-1: Implementation of a Center for Cannabinoids Research	\$12,994,979	Gustavo Moura-Letts	Gregory Caputo,James Grinias,Thomas Keck	Chemistry & Biochemistry	National Science Foundation (NSF)
Acquisition of a Laser Ablation Inductively Coupled Plasma Mass Spectrometer for Multi-discipline Research and Education	\$364,975	Lei Yu	Harold Connolly,James Grinias,Kauser Jahan,Tabbetha Dobbins	Chemistry & Biochemistry	National Science Foundation (NSF)
Development of Strictinin and its Analogs as anti-TNBC Agents	\$225,434	Subash Jonnalagadda	Chun Wu,Manoj Pandey	Chemistry & Biochemistry	University of the Sciences in Philadelphia
FmitF: Collaborative Research: Track 1: Reasoning about Incentive Mechanisms for Sustainability in Human-Computing Systems	\$177,941	Chenxi Qiu		Computer Science	National Science Foundation (NSF)
RU CALLS 4 CS: Rowan University Continuous Academic Living Learning Scholarships for Computer Science Undergraduates	\$999,190	Jennifer Kay	Kristy McGuire,Vahid Heydari,Vasil Hnatyshin	Computer Science	National Science Foundation (NSF)
CyberTraining Pilot Project: Integrating Core CyberInfrastructure Educational and Research Experiences in Undergraduate Curriculum	\$289,101	Ning Wang	Chenxi Qiu,Shen-Shyang Ho,Tony Breitzman,Vahid Heydari,Vasil Hnatyshin	Computer Science	National Science Foundation (NSF)

Proposals
January 1, 2019 - March 31, 2019

Title	Requested Amount	Lead PI	Other Personnel	Award Admin Department	Sponsor
Outreach to High Schools	\$92,699	Vahid Heydari	Chenxi Qiu,Jack Myers,Vasil Hnatyshin	Computer Science	University of Alabama Huntsville
Scholarship for Service Program at Rowan University	\$529,995	Vahid Heydari		Computer Science	University of Alabama Huntsville
The impact of ketone supplements on gastrointestinal permeability and distress in healthy young adults	\$10,000	Daniel Freidenreich	Dylan Klein	Health & Exercise Science	American College of Sports Medicine
The Impact of Acute Resistance Exercise and Training Status on Intestinal Permeability in Young Healthy Individuals	\$24,000	Daniel Freidenreich	Dylan Klein	Health & Exercise Science	National Strength and Conditioning Association
Monitoring exercise induced muscle fatigue in collegiate soccer athletes	\$1,265	Erin Pletcher		Health & Exercise Science	Athletic Trainers' Society of New Jersey
Modeling of Heritability to Understand the Diversity of DNA Methylation Across Genomic Populations	\$110,999	Charalampos Papachristou		Mathematics	National Science Foundation (NSF)
New Jersey Data Science Corps - Conquering Big Data	\$730,453	Hieu Nguyen	Bo Sun,Francis Haas,Ghulam Rasool,Kirti Yenkie,Mohammad Jalayer,Nidhal Bouaynaya,Umarshanger Thayasivam	Mathematics	National Science Foundation (NSF)
A genome-wide investigation of genetic variations in patients with preeclampsia using whole exome sequencing	\$364,287	Nasrine Bendjilali	Benjamin Carone	Mathematics	National Institutes of Health (NIH)
The role of CTCF in establishing and maintaining chromatin architecture during M. musculus spermatogenesis	\$459,184	Benjamin Carone		Molecular & Cellular Biosci	National Institutes of Health
2019 NASA NJSG Rowan University COURI CSM Summer Research Development Program	\$60,000	Karen Magee-Sauer	Kristy McGuire	Physics & Astronomy	NJ Space Grant Consortium
2019 NASA NJSG COURI Rowan University Physics Summer Research Development Program for Undergraduates	\$15,000	Karen Magee-Sauer	Kristy McGuire	Physics & Astronomy	NJ Space Grant Consortium
Measurement and Control of Exchange Processes in Reverse Micelle Systems	\$70,000	Nathaniel Nucci		Physics & Astronomy	American Chemical Society- Petroleum Research Fund (ACS PRF)
Assessing the Role of Hydration Dynamics in Molecular Recognition	\$1,676,250	Nathaniel Nucci		Physics & Astronomy	National Institutes of Health (NIH)
Fundamental Study of Asphaltene Nano-Aggregates using Parahydrogen-Enhanced NMR	\$55,000	Nicholas Whiting		Physics & Astronomy	American Chemical Society- Petroleum Research Fund (ACS PRF)
RUI: Better Solid-State Batteries Through New Fundamental Discoveries in Structure-Function Relationships for Borohydrides	\$430,061	Tabbatha Dobbins		Physics & Astronomy	National Science Foundation (NSF)

Proposals
January 1, 2019 - March 31, 2019

Title	Requested Amount	Lead PI	Other Personnel	Award Admin Department	Sponsor
DMREF: Collaborative Research: Unraveling the Structure, Morphology and Ionic Conductivity Relationships of Innovative Bioinspired Polysaccharides-Protein Bio-electrolyte Membranes by Joint Experimental-Computational Approaches	\$186,002	Xiao Hu		Physics & Astronomy	National Science Foundation (NSF)
Using behavioral economics to increase buprenorphine maintenance among OUD patients enrolled in ED bridge program.	\$2,871,958	Bethany Raiff	Igor Elman, Kimberly Kirby, Umashanger Thayasivam	Psychology	National Institutes of Health (NIH)
A Short Course in Big Data and Machine Learning Approaches for Applied Researchers	\$832,283	Dustin Fife	Bethany Raiff, Patrice Tremoulet, Tony Breitzman	Psychology	National Institutes of Health (NIH)
Geographic Variation Of Song And Abundance Of Atlantic Seaside Sparrow (Ammodramus Maritimus Maritimus).	\$1,600	Gerald Hough		Psychology	Delaware Ornithological Society
RU Mindful: Searching for the Signature of Mindfulness in Health & Well-Being	\$429,242	Jeffrey Greeson		Psychology	National Institutes of Health (NIH)
Trauma-informed Approach to Improve Healthy Decision Making in Adolescent Girls	\$53,912	Meredith Joppa	Seran Schug	Psychology	Drexel University
Future of Work at US Manufacturing Plants	\$149,691	Patrice Tremoulet	Cheryl Bodnar, Joy Xin, Susana Correia Santos	Psychology	National Science Foundation (NSF)
TrachAlarm a novel low-cost solution to accidental decannulation of tracheostomy tubes	\$120,188	Patrice Tremoulet		Psychology	Innovations Unlimited LLC
EDU (3) \$154,646					
The Intersection of Indigenous Knowledge, Community-Based Research, and University Policy and Practice in Africa: Profiling How African Academics and University Administrators Co-Create the Ecological University	\$49,907	Ane Johnson		Edu Svcs & Leadership	Spencer Foundation
Project MOTIVATE: MOBilizing and Training Inspirational Veterans to Achieve in Teacher Education	\$99,739	Cori Brown	Lori Kroeger	Education Dean	NJ Department of Education (NJDE)
Promoting Multicultural Awareness and Advocacy Among Elementary School Students Through Multicultural Children's Literature	\$5,000	Xiufang Chen		Lang, Lit & Sociocult Edu	International Literacy Association Elva Knight Research Grant
ENG (36) \$16,907,460					
Specific Energy Storage System for Small Mechanical robots: Computational design and fabrication	\$493,790	Hamed Seyyedhosseinzadeh		Biomedical Engineering	National Science Foundation (NSF)
Specific Metamaterial for Mechanical Small Robot: Computational design and fabrication	\$696,590	Hamed Seyyedhosseinzadeh		Biomedical Engineering	National Science Foundation (NSF)
Mechanism of Bacteria adhesion to medical devices: Multiscale Multiphysics simulation study	\$510,992	Hamid Seyyedhosseinzadeh	Hamed Seyyedhosseinzadeh	Biomedical Engineering	National Science Foundation (NSF)
Metallic Orthopedic Hip Implant with Stiffness as low as cortical bone	\$635,009	Hamid Seyyedhosseinzadeh	Hamed Seyyedhosseinzadeh	Biomedical Engineering	National Science Foundation (NSF)

Proposals
January 1, 2019 - March 31, 2019

Title	Requested Amount	Lead PI	Other Personnel	Award Admin Department	Sponsor
Mechanism of Bacteria adhesion to metallic devices: Multiscale Multiphysics simulation study	\$434,882	Hamid Seyyedhosseinzadeh	Hamed Seyyedhosseinzadeh	Biomedical Engineering	National Science Foundation (NSF)
Alpha-hemolysin nanopore for selective detection of DNA methylation on promoter regions	\$300,000	Jiwook Shim		Biomedical Engineering	National Institutes of Health (NIH)
REU Supplement for Summer Undergraduate Researchers	\$15,360	Vincent Beachley		Biomedical Engineering	National Science Foundation (NSF)
New 3D Printed Gradient Scaffolds for Repair of the Annulus Fibrosus of the Intervertebral Disc	\$362,300	Andrea Vernengo		Chemical Engineering	National Institutes of Health (NIH)
Acquisition of a State-of-the-Art X-Ray Photoelectron Spectrometer for Research, Training, and Education	\$506,050	Iman Noshadi	Joseph Stanzione, Sam Lofland, Tabbetha Dobbins, Vincent Beachley	Chemical Engineering	National Science Foundation (NSF)
Engineering 3D printed sutureless cardiac patches	\$1,792,365	Iman Noshadi	Joseph Stanzione	Chemical Engineering	National Institutes of Health (NIH)
Engineered bionic scaffold for online regulating and monitoring muscle cell behavior	\$533,306	Iman Noshadi	Amir Miri Ramsheh	Chemical Engineering	National Institutes of Health (NIH)
A Highly Sticky and Antimicrobial Adhesive for Cornea Injury Repair and Regeneration	\$247,938	Iman Noshadi		Chemical Engineering	National Science Foundation (NSF)
Evaluation of Coefficients Related to Runoff from Roadway Projects	\$397,716	Jagadish Torlapati	Cheng Zhu, Gilson Lomboy, Yusuf Mehta	Civil/Env Engineering	NJ Department of Transportation (NJDOT)
Developing Safety Performance Functions for Rural Two-Lane Highways that Incorporate Speed Measures	\$170,000	Mohammad Jalayer	Nasrine Bendjilali, Seyed-Farzan Kazemi	Civil/Env Engineering	TransDAC LLC
21st Century Transportation Research Library	\$125,000	Mohammad Jalayer	Maryam Karimi, Rouzbeh Nazari	Civil/Env Engineering	NJ Department of Transportation (NJDOT)
Marketing Research for the Quantifiable Benefits of Transit in New Jersey	\$6,000	Mohammad Jalayer		Civil/Env Engineering	Rutgers, The State University of New Jersey
Forensic Investigation of Landfill Subsurface Thermal Events Using Non-Invasive In Situ and Remote Sensing Techniques: Demonstration and Training	\$214,182	Rouzbeh Nazari	Jess Everett, Maryam Karimi, Nidhal Bouaynaya	Civil/Env Engineering	US Department of Agriculture - Agricultural Research Service (USDA)
Evaluation of Coefficients Related to Runoff from Roadway Projects	\$400,000	Rouzbeh Nazari	Maryam Karimi, Mohammad Jalayer, Yusuf Mehta	Civil/Env Engineering	NJ Department of Transportation (NJDOT)
Development of a Laboratory Testing Protocol to Evaluate Alternative Materials for Use in Modifying Asphalt Binders and Alternative Materials for Use in Modifying Asphalt Mixtures	\$249,512	Ayman Ali	Zhaoxing Xie	CREATES	Florida Department of Transportation
Balanced Mixture Design Implementation Support	\$148,713	Ayman Ali	Zhaoxing Xie	CREATES	Wisconsin Department of Transportation
Identification of a Signature Chemical Property(ies) and/or Index of a Binder that can predict Binder Performance under Long Term Aging Condition from Data Collected after Short Term Aging	\$50,000	Caitlin Purdy	Yusuf Mehta	CREATES	Paulsboro Refining Company, LLC
Development of bio-stabilized wastes for subgrade insulation in cold regions	\$149,811	Cheng Zhu	Ayman Ali, Zhaoxing Xie	CREATES	TRB (Transportation Research Board of The National Academies)

Proposals
January 1, 2019 - March 31, 2019

Title	Requested Amount	Lead PI	Other Personnel	Award Admin Department	Sponsor
The Rutgers-New Brunswick ADS (Automated Driving System) Infrastructure-Vehicle-Integration (IVI) Demonstration Ground	\$100,000	Mohammad Jalayer		CREATES	Rutgers, The State University of New Jersey
Design and Performance of Open-Graded Friction Course (OGFC) Mixtures Containing Epoxy Asphalt	\$239,929	Yusuf Mehta	Ayman Ali,Zhaoxing Xie	CREATES	Florida Department of Transportation
Innovative Technologies and Materials to Protect National Security Interests in the Arctic Region	\$3,400,000	Yusuf Mehta	Ayman Ali,Cheng Zhu,Douglas Cleary,Gilson Lomboy,John Schmalzel,Shreekanth Mandayam	CREATES	US Department of Defense
Summer school experience at CREATES for Engineering Students from India.	\$5,100	Yusuf Mehta		CREATES	CEPT University
Health Hack - Developing and testing a portable 3-D fluorescent microscope for quick dermatologic diagnosis	\$10,000	Ben Wu	Xiao Hu,Ying Tang	Electrical/Computer Engineering	Inspira Medical Centers Inc
Bringing AI to Neuro-Oncology: Tumor Therapy and Surveillance	\$1,365,190	Ghulam Rasool	Nidhal Bouaynaya	Electrical/Computer Engineering	Google Inc
Flying Fish Brewery Clinic	\$15,000	John Schmalzel		Electrical/Computer Engineering	Flying Fish Brewing Company LLC
Powering the undergraduate curriculum with smart grid and renewable energy systems	\$140,472	Nidhal Bouaynaya	John Schmalzel	Engineering Dean	National Science Foundation (NSF)
Visualization and Analysis of Rotorcraft Safety within a CAVE Virtual Reality Environment	\$87,054	Nidhal Bouaynaya	Ghulam Rasool,Shreekanth Mandayam	Engineering Dean	Federal Aviation Administration (FAA)
Catalyzing Diversity: Scholarships and Educational Initiatives to Enhance the Southern New Jersey High Tech Workforce	\$999,987	Kaitlin Mallouk	Cheryl Bodnar,Jess Everett,Stephanie Farrell,Steven Chin	ExEEd	National Science Foundation (NSF)
Exploring Entrepreneurial Mindset Through Reading The Culture Code	\$724	Kaitlin Mallouk		ExEEd	KERN Family Foundation
Research Initiation: The Impact of Engineering Education Guilds - Understanding Vision and Quantifying Propagation	\$199,998	Kaitlin Mallouk		ExEEd	National Science Foundation (NSF)
Development of a Multifunctional Metal 3D Printer for Advancing Research and Education	\$1,529,490	Amir Miri Ramsheh	Ben Wu,Francis Haas,Hamed Seyyedhosseinzadeh	Mechanical Engineering	National Science Foundation (NSF)
Bioprinted Tumor-On-a-Chip: Personalized Medicine Model to Evaluate Chemotherapy	\$375,000	Amir Miri Ramsheh	Gregory Kubicek,Iman Noshadi	Mechanical Engineering	National Institutes of Health (NIH)
SEE (3) \$498,993					
NJ Highlands Interactive Environmental Resource Inventory	\$214,077	John Hasse		Geography, Planning, and Sust	Highlands Council
NJ MAP Camden Green+Healthy	\$40,000	John Hasse		Geography, Planning, and Sust	New Jersey Conservation Foundation
Collaborative Research: Exhumation of deep-seated rocks within climate-influenced and oblique orogenic systems	\$244,916	Andrea Goddard		Geology	National Science Foundation (NSF)
SOM (35) \$25,144,158					

Proposals
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Title	Requested Amount	Lead PI	Other Personnel	Award Admin Department	Sponsor
Use of hybrid simulation to enhance clinical skills training in medical students	\$5,000	Nils Brolis	Kevin Overbeck,Pam Basehore	Academic Affairs (RowanSOM)	American Association of Colleges of Osteopathic Medicine (AACOM)
Changing the Paradigm: CSA as a Preventable Public Health Problem	\$112,752	Esther Deblinger		CARES	Johns Hopkins Bloomberg School of Public Health
AGH Center for Traumatic Stress in Children and Adolescents	\$7,367	Esther Deblinger		CARES	Allegheny-Singer Research Institute
Neurophysiological and behavioral consequences of psychostimulant bingeing	\$1,991,150	Barry Waterhouse	David Devilbiss,Rachel Navarra	Cell Biology & Neuroscience	National Institutes of Health (NIH)
TBI, flexible attention and the locus coeruleus-norepinephrine transmitter system	\$430,922	Barry Waterhouse	Daniel Chandler,Rachel Navarra	Cell Biology & Neuroscience	National Institutes of Health (NIH)
Impact of stress-induced circuit-specific changes in locus coeruleus opioid signaling on anxiety-like behavior	\$2,012,500	Daniel Chandler		Cell Biology & Neuroscience	National Institutes of Health (NIH)
Nucleolar signaling in cancer	\$161,000	Dimitri Pestov		Cell Biology & Neuroscience	National Institutes of Health (NIH)
A Parallel Group Design Randomized Single-Blind Trial of Metformin Treatment in Patients with Fragile X Syndrome on Safety and Effects on Cognition, Anxiety, Attention and Biomarkers	\$50,000	Sean McBride	Nicole Sestito	Cell Biology & Neuroscience	FRAXA Research Foundation
CHARACTERIZATION OF THE ROLE OF NCALD IN BREAST CANCER	\$724,500	Venkateswar Venkataraman		Cell Biology & Neuroscience	US Department of Defense
Child Abuse Research Education & Service (CARES) Institute Trauma-Focused Cognitive Behavioral Therapy (TF-CBT) Research Project	\$67,234	Esther Deblinger	Elisabeth Pollio	Child Abuse Research Education & Service Institute (CARES)	Help For Children
Providing Integrated Primary and Behavioral Health Care for Patients with Special Needs	\$200,000	Jennifer LeComte	Wendy Aita	Developmental Disabilities	The Nicholson Foundation
Adult Mental Health - Intellectual Disability Outpatient Care (RowanSOM Integrated Special Needs Center)	\$250,000	Wendy Aita		Developmental Disabilities	NJ Department of Human Services
Measuring effectiveness of a smartphone based behavioral treatment program (SmartBT) to improve lifestyle in obese and overweight patents with metabolic disorders - a pilot randomized control trial	\$150,000	Adarsh Gupta	Danielle Arigo	Family Medicine	American Osteopathic Association (AOA)
New Jersey Integrated Behavioral Health and Primary Care Team Training Program	\$1,250,002	Alison Mancuso	Joanna Petrides,Richard Jermyn	Family Medicine	Health Resources and Services Administration (HRSA)
Medical Inspirational Reading and Active Contemplation Leading to Empathy (MIRACLE) Study	\$150,000	Meagan Vermeulen	Bob Steer	Family Medicine	American Osteopathic Association (AOA)
CARDIOLOGY Fellowship	\$45,210	Joanne Kaiser Smith		Graduate Medical Education	St Jude Medical Foundation
Advanced Upper Extremity Trauma and Flap Course - AO Trauma	\$2,346	Shauna Goetz		Graduate Medical Education	Depuy-Synthes

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Annual Conference	\$6,474	Shauna Goetz		Graduate Medical Education	Stryker
RPA-Directed DNA Repair	\$25,000	Brian Weiser		Molecular Biology	Osteopathic Heritage Foundation
RPA-Directed DNA Repair Mechanisms	\$1,610,000	Brian Weiser		Molecular Biology	National Institutes of Health (NIH)
The role of cyclin C during proteaphgy	\$25,000	Katrina Cooper		Molecular Biology	Osteopathic Heritage Foundation
dUTP hydrolysis - Understanding the functon of dUTPase isoforms in normal and abnormal cell growth and development	\$2,012,500	Sal Caradonna		Molecular Biology	National Institutes of Health (NIH)
New Jersey Geriatric Workforce Enhancement Program	\$3,750,000	Anita Chopra	Christian White,Deborah Klaszky,Elyse Perweiler,Jennifer DeGennaro,Lisa Bodenheimer,Nancy Alterman,Sherry Pomerantz,Terrie Ginsberg	New Jersey Institute for Successful Aging (NJISA)	Health Resources and Services Administration (HRSA)
Imaging the alpha7 nicotinic acetylcholine receptor in mild cognitive impairment	\$459,546	Robert Nagele		New Jersey Institute for Successful Aging (NJISA)	Johns Hopkins University
A Randomized Placebo-Controlled Study of Metformin Safety and Effects on Cognition, Anxiety, Sleep, etc.	\$3,843,995	Sean McBride	Bob Steer,David Libon,Wendy Aita	New Jersey Institute for Successful Aging (NJISA)	US Department of Defense
A Phase II, Multi-Center, Randomized, Double-Blind, Placebo-Controlled, Parallel- Group, Efficacy, and Safety study of Ganteneruman in patients with Early (prodromal to mild) Alzheimer's Disease	\$826,690	Sean McBride	David Libon,Nicole Sestito	New Jersey Institute for Successful Aging (NJISA)	Roche Pharmaceuticals, Inc.
Phase II Study to Assess the Safety, Tolerability, and Target Engagement of AMX0035, a Fixed Combination of Sodium Phenylbutyrate and Tauroursodeoxycholic Acid for the Treatment of Alzheimer's Disease	\$53,314	Sean McBride	David Libon,Nicole Sestito	NJISA	Amylyx Pharmaceutical Corp.
Is impaired HDL function associated with preterm delivery?	\$433,600	Xinhua Chen	Bob Steer,Robert Nagele,Terry Scholl,Thomas Stein	OB/GYN	National Institutes of Health (NIH)
Total Health Integrated Navigation (WHIN) Program	\$250,000	Stephen Scheinthal		Psychiatry	NJ Department of Health
How OMT Impacts Relapse Rates of Non-Medical Opioid Users Being Treated with Medically Assisted Treatment	\$147,764	Danielle Cooley	Bob Steer,James Bailey,Richard Jermyn	Rehabilitation Medicine	American Osteopathic Association (AOA)
DATA Waiver Training Program	\$1,000,000	Richard Jermyn	Kaitlan Baston	Rehabilitation Medicine	NJ Department of Human Services
Southern New Jersey Medication Assisted Treatment Center of Excellence	\$2,000,000	Richard Jermyn	Kaitlan Baston	Rehabilitation Medicine	NJ Department of Human Services
NJ Opioid Medical Education Program	\$997,570	Richard Jermyn	Joshua Coren	Rehabilitation Medicine	NJ Department of Health

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Title	Requested Amount	Lead PI	Other Personnel	Award Admin Department	Sponsor
A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Dose-Ranging, Multi-Center Clinical Trial to Evaluate the Efficacy and Safety of DaxibotulinumtoxinA for Injection for the Treatment of Upper Limb Spasticity in Adults After Stroke or Traumatic Brain Injury	\$78,722	Richard Jermyn	Deanna Janora	Rehabilitation Medicine	Revance Therapeutics, Inc.
Eradication of C. acnes using cold atmospheric plasma	\$14,000	Tara Gaston		Surgery	Orthopedic Research and Education Foundation
RU (136)	\$69,667,991				