Current Activity: FY19

Q2 research expenditures: \$ 18,889,504.71
YTD expenditures: \$ 28,058,072.77

Proposals Submitted and Awards Received October 1, 2018 - December 31, 2018

	#	Q2 FY19	YTD #	YTD FY19
Proposals Submitted	139	\$ 47,448,626	217	\$ 64,015,920
NJ Awards	9	\$ 1,065,051	17	\$ 2,004,091
Federal Awards	14	\$ 2,040,889	41	\$ 8,712,483
Private/Industry	16	\$ 1,313,367	36	\$ 3,211,139
Clinical/Service	-	\$ -	1	\$ 680
Total Awards	39	\$ 4,419,307	94	\$ 13,928,393

Comparative Data: Prior FY

	#	Q2 FY18	YTD#	YTD FY18
Proposals Submitted	118	\$ 35,211,295	185	\$ 52,269,472
NJ Awards	6	\$ 1,289,434	16	\$ 2,433,964
Federal Awards	7	\$ 1,337,198	33	\$ 8,223,426
Private/Industry	9	\$ 407,720	22	\$ 1,165,034
Clinical/Service	-	\$ 19,508	-	\$ 35,992
Total Awards	22	\$ 3,053,860	71	\$ 11,858,416

Q2 research expenditures: \$ 4,797,271.45 Y-T-D research expenditures: \$ 10,992,915.13

Project Tide	Award Amount	Indirect Cost Lead PI Total Lead PI	Other Personnel	Sponsor	Proposal Prime Sponso	r Award Admin Dept	Award Begin Date	Award End Date
Admin (1)	\$40,000	0.16.1.11.75			1.1		0 1 2010	14 24 2020
Regional Training in Primary Sources for Teachers	\$40,000 \$373,077	\$0 Michelle Kowalsk	у	Waynesburg University	Library of Congress	Library Services	Oct 1, 2018	Mar 31, 2020
The Megan Giordano Fellow in Public History	\$125,000	\$13,021 William Carrigan		Gloucester County Parks & Recreation		History	Sep 1, 2018	Aug 30, 2019
Does the Detention and Deportation of Illegal Immigrants Reduce Crime? A Nationwide Examination of the Impact of 287(g) agreements on Violent and Property Crime	\$248,077	\$82,692 Joel Capellan	Evan Sorg	National Institute of Justice (NIJ)		Law/Justice	Jan 1, 2019	Dec 31, 2021
CMSRU (2)	\$113,238							
Emerin regulation of nuclear architecture during cell invasion and metastasis	\$105,238	\$9,235 James Holaska		W.W. Smith Charitable Trust		CMSRU Biomedical Science	e Dec 1, 2018	Nov 30, 2019
ANK-dependent ATP efflux causes calcium pyrophosphate deposition in cartilage	\$8,000	\$0 Charlene Williams		Medical College of Wisconsin		CMSRU Biomedical Science	e Nov 1, 2017	Oct 31, 2018
CPA (1)	\$15,000	60 D 1 1 Cl :		NIGHT C. T. d. A. AUGCA)		D.C D.	1 11 2010	1 20 2010
Movement: A Celebration of Women in Choreography (SM (5))	\$15,000 \$163,345	\$0 Deborah Shapiro		NJ State Council on the Arts (NJSCA)		Performing Arts Dean	Jul 1, 2018	Jun 30, 2019
Portable Liquid Chromatograph for Point-of-Care Monitoring of Illicit Substances	\$76,642	\$18,214 James Grinias		Axcend Corporation	National Institutes of Health	Chemistry & Biochemistry	Sep 15, 2018	Aug 31, 2019
Restek Corporation Sponsored Research Agreement	\$30,000	\$10,000 James Grinias		Restek	Restek	Chemistry & Biochemistry	Jan 1, 2019	Dec 31, 2019
Visualization and mining of metabolomics data	\$35,000	\$11,666 Vasil Hnatyshin		Bristol-Myers Squibb (BMS)		Computer Science	Jun 1, 2017	Jun 15, 2019
Examining the Impact of a Fresh Food Pharmacy Group Intervention for Individuals with Type 2 Diabetes in a Clinical Setting	\$5,000	\$0 Nicole Vaughn		Cumberland/Salem/Gloucester Health Wellness Alliance, Inc.	Horizon Foundation of NJ	Health & Exercise Science	Sep 1, 2018	Aug 31, 2019
Optimizing a self-directed mobile mindfulness intervention for improving cardiorespiratory failure survivors' psychological distress	\$16,703	\$5,568 Jeffrey Greeson		Duke University	National Institutes of Health	Psychology	Sep 1, 2018	Aug 31, 2019
EDU (3)	\$548,980							
Measurement of Young Peoples Policy Arguments in Authentic Contexts	\$2,500	\$326 Shelley Zion		University of Colorado - Boulder		Center for Access, Success, and Equity	Jul 1, 2016	Jun 30, 2019
Camden Promise Neighborhood	\$146,606	\$13,206 Shelley Zion		Center For Family Services (CFS)	US Department of Education	Center for Access, Success, and Equity	Sep 1, 2017	Jun 30, 2019
Critical Civic Inquiry: Student Centered Learning	\$399,874	\$52,157 Shelley Zion		Jobs for the Future		Center for Access, Success, and Equity	Aug 1, 2018	Sep 30, 2020
ENG (13)	\$943,153			4				
Liquid fibers for continuously operated liquid-liquid extraction	\$55,000	\$0 Martin Haase		American Chemical Society- Petroleum Research Fund (ACS PRF)		Chemical Engineering	Sep 1, 2019	Aug 31, 2020
Roadmap for Solvent Recovery in Industrial Manufacturing: Enhancing Process Efficiency through Resource Minimization	\$147,529	\$44,747 Kirti Yenkie	C. Stewart Slater,Mariano Savelski	US Department of Environmental Protection Agency (USEPA)		Chemical Engineering	Oct 1, 2018	Sep 30, 2020
Evaluation of laboratory performance of binder and Hot mix Asphalt	\$4,020	\$1,340 Yusuf Mehta	CI INCI II	American Asphalt Company		Civil/Env Engineering	Jan 1, 2018	Dec 31, 2018
The Shaker Shield - An Innovative Technology for Inhabitant Protection in High Seismic Risk Areas	\$50,000	\$5,000 Cheng Zhu	Chuck McGlynn,Hong Zhang	National Science Foundation (NSF)		Civil/Env Engineering	Dec 1, 2018	May 31, 2019
Creation of a library of novel examples for an enriching geotechnical engineering learning experience	\$5,000	\$370 Cheng Zhu		US Universities Council on Geotechnical Education and Research		Civil/Env Engineering	Oct 1, 2018	Sep 30, 2019
Active Earth science learning for K-12 students	\$2,000	\$0 Cheng Zhu		Christian and Mary Lindback Foundation		Civil/Env Engineering	Oct 1, 2019	Sep 30, 2020
Microstructural effects on creep and fatigue in heterogeneous salt	\$11,604	\$726 Cheng Zhu		State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation		Civil/Env Engineering	Dec 1, 2018	Dec 31, 2020
Regional UTC Program	\$190,000	\$62,000 Rouzbeh Nazari	Yusuf Mehta	Rutgers, The State University of New Jersey	US Department of Transportation	Civil/Env Engineering	Sep 1, 2018	Sep 30, 2019
MemSat Development	\$25,000	\$0 Sangho Shin	John Schmalzel,Robert Krchnavek	Rutgers, The State University of New Jersey	National Aeronautics Space Administration	Electrical/Computer Engineering	Apr 1, 2016	Mar 31, 2018
E4SPA: Elearning Course for Sustainable Production Automation	\$10,000	\$0 Ying Tang		IEEE Robotics & Automation Society	IEEE Robotics & Automation Society	Electrical/Computer Engineering	Sep 1, 2018	Aug 31, 2019
Rowan's Graduate Fellowship Prepares for the Modern Age of Artificial Intelligence (Rowan's Prepare.AI)	\$398,000	\$0 Ghulam Rasool	Bo Sun,Cheryl Bodnar,Francis Haas,Nidha Bouaynaya,Ravi Ramachandran,Robi Polikar,Shen-Shyang Ho,Vahid Heydari	al US Department of Education	US Department of Education	Electrical/Computer Engineering	Oct 1, 2018	Sep 30, 2019
Promoting Education in Green Transportation through the Formula Electric Clinic	\$30,000	\$4,500 Anu Osta	Ratneshwar Jha	Constellation		Mechanical Engineering	Nov 15, 2018	Dec 31, 2020
Engineering Clinic Program: A platform for documenting the experiences and challenges of female undergraduate students and identify factors influencing their recruitment and retention.	\$15,000	\$0 Anu Osta		Engineering Information Foundation		Mechanical Engineering	Jan 1, 2019	Dec 31, 2019
SEE (1)	\$172,906							

Awards October 1, 2018 - December 31, 2018

National Guard Facilities GIS Internship Program	\$172,906	\$35,679 John Hasse		NJ Dept. of Military and Veteran Affairs	NJ Dept. of Military and Veteran Affairs (NJDMAVA)	Geography, Planning, and Sustainability	Oct 1, 2018	Sep 30, 2019
SOM (11)	\$2,049,608							
To Sleep or Not to Sleep - Are Calcium Sensor Proteins NCALD and S100B Part of the Answer?	\$25,000	\$0 Venkateswar Venkataraman	Richard Jermyn	Osteopathic Heritage Foundation		Cell Biology	Jul 30, 2018	Jul 29, 2019
Translational rescue mechanisms in eukaryotes	\$314,025	\$116,525 Natalia Shcherbik		National Institutes of Health		Cell Biology	Sep 1, 2018	Aug 31, 2019
Gene Therapy of Canavan Disease	\$578,131	\$156,137 Paola Leone	Jeremy Francis	Pfizer Inc.		Cell Biology	Apr 1, 2018	Dec 1, 2018
Award for NJ Health Foundation Excellence in Research	\$1,000	\$0 Paola Leone		NJ Department of Health		Cell Biology & Neuroscience	Jul 1, 2018	Jun 30, 2019
Children's Mental Health- Intellectual Disability Outpatient Care	\$221,400	\$0 Wendy Aita		New Jersey Department of Children and Families (NJDCF)		Developmental Disabilities	Jul 1, 2018	Jun 30, 2019
Model State-Supported Area Health Education Centers	\$74,407	\$5,512 Joshua Coren	Xitlalichomiha O'Dell	Health Resources and Services Administration (HRSA)		Family Medicine	Sep 1, 2018	Aug 31, 2019
Regulation of the Gli protein TRA-1 by co-factors	\$305,900	\$115,900 Ronald Ellis		National Institutes of Health		Molecular Biology	Jan 1, 2019	Dec 31, 2019
A Comprehensive Center for Huntington Disease	\$308,605	\$4,862 Michael Mccormack	k	NJ Department of Health		Pathology	Jul 1, 2018	Jun 30, 2019
Psychological Services For Abused & Neglected Children - 19BYDS	\$197,890	\$0 Wendy Aita		New Jersey Department of Children and Families (NJDCF)		Psychiatry	Jul 1, 2018	Jun 30, 2019
FY19 EOF - Graduate Biomedical	\$22,250	\$0 Linda Boyd		The New Jersey Office of the Secretary of Higher Education (OSHE)		School of Osteopathic Medicine Dean	Jun 1, 2018	Jul 31, 2019
RowanSOM Pre-Matriculation Program	\$1,000	\$0 Linda Boyd		NJ Department of Education (NJDE)		SOM Academic Affairs	Jun 18, 2018	Jul 20, 2018
RU Total (39)	\$4,419,307							

Title	Requested Amount	Lead PI	Other Personnel	Award Admin Department	Sponsor
Admin (2)	\$480,051				
C.H.A.M.P. Program	\$440,051 W	inona Wigfall		CHAMP/GEAR UP	The New Jersey Office of the Secretary of Higher Education (OSHE)
Regional Training in Primary Sources for Teachers	\$40,000 M	ichelle Kowalsky		Library Services	Waynesburg University
CCCA (1)	\$24,681				
The Climate Change Reporting Project		anne Garyantes	Mark Berkey-Gerard	Journalism	The Philadelphia Foundation
CHSS (2)	\$110,001	:II: G :		T.	
The Megan Giordano Fellow in Public History	\$75,001 W	illiam Carrigan		History	Gloucester County Parks & Recreation
Natural History and Intervention Decisions of Thoracic Aortic Aneurysm Revisited	\$35,000 Yı	ipeng Li		Political Science & Economics	New Jersey Health Foundation, Inc. (NJHF)
CMSRU (10)	\$1,077,247				
Emerin Regulation of Nuclear Structure in Invasive Breast Cancer Cells	\$50,000 AI	exandra Liddane	James Holaska	CMSRU Biomedical Science	NJ Department of Health
Development of novel small molecule inhibitor of STAT3 for obese breast cancer patients	\$35,000 M	anoj Pandey	Subash Jonnalagadda	CMSRU Biomedical Science	New Jersey Health Foundation, Inc. (NJHF)
Molecular mechanisms of Noggin-mediated rhabdomyosarcoma resistance to treatment	\$34,776 Ze	us Antonello	Igor Kuzin	CMSRU Biomedical Science	New Jersey Health Foundation, Inc. (NJHF)
Topical Application of IgM Antibodies to Enhance Cutaneous Wound Healing	\$34,943 Ze	us Antonello	Igor Kuzin	CMSRU Biomedical Science	New Jersey Health Foundation, Inc. (NJHF)
Development of Novel Bruton's Tyrosine Kinase Inhibitors for Treatment of Refractory and Relapsed Multiple Myeloma	\$360,438 M	anoj Pandey		CMSRU Biomedical Science	National Institutes of Health (NIH)
Investigation of the role of HBsu acetylation in DNA binding and gene expression	\$34,970 Va	alerie Carabetta		CMSRU Biomedical Science	New Jersey Health Foundation, Inc. (NJHF)
Efficacy of adipose derived stem cells to reduce the risk of anastomotic leak in ischemic colon anastomosis in a rat model	\$34,950 M	ichael Kwiatt		CMSRU Biomedical Science	New Jersey Health Foundation, Inc. (NJHF)
Brain Mechanisms of Adherence to Extended Release Naltrexone in Opioid Use	\$392,404 Igo	or Elman		CMSRU Dean	University of Pennsylvania
A critical role of the rostromedial tegmental nucleus in aversion (pain) and reward (analgesia): its putative function in pain chronification	\$89,516 Igo	or Elman		CMSRU Dean	Massachusetts General Hospital
MCAT preparation course- Premedical Urban Leaders Summer Enrichment (PULSE) program	\$10,250 W	celyn Mitchell- illiams		CMSRU Multicultural Affairs	Dolfinger-McMahon Foundation
CSM (37)	\$8,577,304				
Gut microbiome suppression of fungal honey bee brood pathogens	\$39,500 Sv	jetlana Vojvodic		Biological Sciences	Project Apis m.
Characterizing the role of genomic motif elements in human disease	\$31,000 St	ephanie Spielman		Biological Sciences	New Jersey Health Foundation, Inc. (NJHF)
Low-frequency electromagnetic field (EMF) exposure impacting honey bee physiology	\$35,000 Sv	jetlana Vojvodic		Biological Sciences	New Jersey Health Foundation, Inc. (NJHF)
Development of a Chemical Technician Certification Program for Nontraditional Students in Two-Year Colleges	\$541,660 Ja	mes Grinias	Gustavo Moura-Letts,Matthew Pilarz	Chemistry & Biochemistry	National Science Foundation (NSF)
Mycobacterium vaccae immunization for cocaine addiction and relapse	\$398,480 Th	omas Keck	Bradford Fischer, Ileana Soto	Chemistry & Biochemistry	National Institutes of Health
RUI: Combining experiments and simulations to optimize biomolecular ionic liquids for protein stabilization	\$294,806 Ti	mothy Vaden	Chun Wu,Gregory Caputo	Chemistry & Biochemistry	National Science Foundation (NSF)
Joint Computational-Experimental Drug Discovery of Biased agonists to dopamine D2 receptor toward better anti-psychotic/Parkinson's medications.	\$35,000 Ch	nun Wu	Thomas Keck	Chemistry & Biochemistry	New Jersey Health Foundation, Inc. (NJHF)
Evaluate modified artemisinin and its derivatives for potential treatment of various forms of cancer	\$35,000 Aı	nos Mugweru	Iman Noshadi,Subash Jonnalagadda	Chemistry & Biochemistry	New Jersey Health Foundation, Inc. (NJHF)
Using LC-MS/MS to Identify Dysregulated Neurotransmitters Involved with Neurological Disorders	s34,750 Ja	mes Grinias	David Devilbiss	Chemistry & Biochemistry	New Jersey Health Foundation, Inc. (NJHF)
Analgesia without Addiction: Synthesis and Development of Highly Selective Novel Analgesics	\$35,000 Th	omas Keck	Gustavo Moura-Letts	Chemistry & Biochemistry	New Jersey Health Foundation, Inc.

Diazirine-Based Tissue Adhesives	\$1,764,065 Gustavo Moura-Letts		Chemistry & Biochemistry	National Institutes of Health (NIH)
COLLABORATIVE: Applying Ion-Exchange Chromatography and Supercritical Fluid Chromatography to 2D-LC Analysis of Metabolites	\$218,892 James Grinias		Chemistry & Biochemistry	National Science Foundation (NSF)
Restek Corporation Sponsored Research Agreement	\$20,000 James Grinias		Chemistry & Biochemistry	Restek
Novel Chemical Probes for Tissue Adhesives	\$35,000 Gustavo Moura-Letts		Chemistry & Biochemistry	New Jersey Health Foundation, Inc. (NJHF)
CHS: Towards Equitible Distribution and Pricing of Work in Crowdwork	\$54,821 Chenxi Qiu		Computer Science	National Science Foundation (NSF)
The Impact of Acute Resistance Exercise and Training Status on Intestinal Permeability in Young Healthy Individuals	\$34,494 Daniel Freidenreich	Dylan Klein	Health & Exercise Science	New Jersey Health Foundation, Inc. (NJHF)
Developing sensitive outcome measures to evaluate various motor symptoms in multiple sclerosis	\$47,180 Mehmet Uygur		Health & Exercise Science	National Multiple Sclerosis Society
A novel approach to evaluate motor symptoms in multiple sclerosis	\$33,110 Mehmet Uygur		Health & Exercise Science	New Jersey Health Foundation, Inc. (NJHF)
Bridging Undergraduate Student Research in Mathematics Between Four- Year and Two-Year Institutions	\$18,900 Hieu Nguyen		Mathematics	Center for Undergraduate Research in Mathematics
Globally convergent numerical algorithms for inverse scattering problems using multi-frequency data	\$207,534 Thanh Nguyen		Mathematics	National Science Foundation (NSF)
Reverse micelle encapsulation as a strategy for enhancing the stability and transfer of biomolecules into living cells	\$445,500 Nathaniel Nucci	Benjamin Carone,Ileana Soto	Molecular & Cellular Biosci	National Institutes of Health (NIH)
HSV glycoprotein D impact on intercellular junctions	\$443,999 Claude Krummenacher	Claude Krummenacher	Molecular & Cellular Biosci	National Institutes of Health (NIH)
Nectin-1 as a new target for checkpoint immunotherapy against breast cancer	\$35,000 Claude Krummenacher	Claude Krummenacher,Mary Alpaugh	Molecular & Cellular Biosci	New Jersey Health Foundation, Inc. (NJHF)
Improving Outcomes in Ovarian Cancer through a Combinatorial Approach of PD-1/PD-L1 Immunotherapy and Nanoparticle-Mediated Hyperthermia	\$75,000 Nicholas Whiting		Molecular & Cellular Biosci	Rivkin Center for Ovarian Cancer
Directed Epigenetic Reprogramming	\$1,865,844 Benjamin Carone		Molecular & Cellular Biosci	National Institutes of Health (NIH)
Optimizing Engineered Fusion Proteins to Reprogram Cells	\$34,500 Benjamin Carone		Molecular & Cellular Biosci	New Jersey Health Foundation, Inc. (NJHF)
A Novel Approach for Manufacture of Quantum Dots for Biomedical Diagnostics using Reverse Micelles	\$35,000 Nathaniel Nucci		Physics & Astronomy	New Jersey Health Foundation, Inc. (NJHF)
Recruitment, Retention, Mentorship, and Development of South Jersey High School Physics Teachers - Preparing All Students for STEM Careers	\$11,850 Karen Magee-Sauer		Physics & Astronomy	State Farm
High Performing Printed Electrodes for Neurostimulation Applications	\$35,000 Jeffrey Hettinger		Physics & Astronomy	New Jersey Health Foundation, Inc. (NJHF)
RUI: Constraining Mars GCM Microphysics through Comparisons with Global Datasets	\$301,647 Dave Klassen		Physics & Astronomy	National Science Foundation (NSF)
Dating Violence and Sexual Risk Prevention for Young Mothers	\$424,063 Meredith Joppa	Georita Frierson	Psychology	National Institutes of Health
How much and how often? An exploration of factors associated with young adult alcohol and e-cigarette use	\$28,560 Chelsie Young	Rui Shi	Psychology	New Jersey Health Foundation, Inc. (NJHF)
A Novel Exercise Intervention for Motor and Psychiatric Symptoms in Schizophrenia	\$35,000 Tom Dinzeo	Mehmet Uygur	Psychology	New Jersey Health Foundation, Inc. (NJHF)
Mindfulness to Promote Healthy Aging in Older Adults with Mild Cognitive Impairment	\$31,591 Jeffrey Greeson	Lisa Bodenheimer,Sean McBride	Psychology	New Jersey Health Foundation, Inc. (NJHF)
Supporting Prevention in Relationships for Teams (SPoRT): A data-driven prevention intervention to promote healthy relationships for student-athletes	\$24,998 Meredith Joppa	D.J. Angelone,Penny Kempf	Psychology	National Collegiate Athletic Association
RU Mindful: Searching for the Signature of Mindfulness and Health	\$424,583 Jeffrey Greeson		Psychology	National Institutes of Health (NIH)
The Development and Validation of a Novel Paradigm for Assessing Sexual Violence Risk Perception in MSM	\$410,977 D.J. Angelone		Psychology	National Institutes of Health (NIH)
EDU (6)	\$616,931			
Using Strings to Increase Engagement and Change Discourse in Secondary Math Classrooms	\$6,000 Rob Wieman	Jill Perry	Center for Access, Success, and Equity	National Council of Teachers of Mathematics
Transforming Student Voice	\$62,404 Shelley Zion		Center for Access, Success, and Equity	University of Colorado - Boulder
Camden Promise Neighborhood	\$137,128 Shelley Zion		Center for Access, Success, and Equity	Center For Family Services (CFS)

A Collaborative Approach to Assessment with Community College Faculty	\$2,000 Monica Kerrigan		Edu Svcs & Leadership	Council for the Study of Community Colleges
afe Space and the Ethics of Higher Education	\$35,929 Cecile Sam		Edu Svcs & Leadership	The Center for Ethics & Education
iversifying the Teacher Pipeline: A multi-tiered approach to school- niversity-community partnerships	\$373,470 Monika Williams Shealey	Cori Brown,Stacey Leftwich	Education Dean	NJ Department of Education (NJDE)
NG (44)	\$23,239,577			
lechanism of Bacteria adhesion to medical devices: Multiscale Multiphysics mulation study	\$495,605 Hamid Seyyedhosseinzadeh	Hamed Seyyedhosseinzadeh	Biomedical Engineering	National Science Foundation (NSF)
tetallic Orthopedic Hip Implant with Stiffness as low as cortical bone	\$759,278 Hamid Seyyedhosseinzadeh	Hamed Seyyedhosseinzadeh	Biomedical Engineering	National Science Foundation (NSF)
ew Prosthetic Knee Simulator with 14-Degrees of Freedom for movement	\$331,167 Hamid Seyyedhosseinzadeh		Biomedical Engineering	National Science Foundation (NSF)
vestigation of BPDE-DNA adducts by using nanopore	\$35,000 Jiwook Shim		Biomedical Engineering	New Jersey Health Foundation, Inc. (NJHF)
icrofiber-Enforced Hydrogels with Cartilage-Like Properties	\$30,000 Sebastian Vega		Biomedical Engineering	New Jersey Health Foundation, Inc. (NJHF)
dvancing Structural Materials for Army Modernization Priorities Via Direct rite Approaches	\$12,778,466 Joseph Stanzione	Francis Haas,Ratneshwar Jha,William Riddell	Chemical Engineering	US Department of Defense
ngineering 3D printed bioelectronics as smart self-oxygenating tissue affold	\$2,477,631 Iman Noshadi	Andrea Bottaro	Chemical Engineering	National Institutes of Health (NIH)
Novel Approach to Increase Adhesion, Antimicrobial and Hemostatic roperties of Biomaterials for Use as Traumatic Injury Sealants	\$858,000 Iman Noshadi	Andrea Bottaro,Gregory Caputo,Joshua Hazelton	Chemical Engineering	National Institutes of Health (NIH)
ovel Injectable Prodrug-Based Nanoreactor Hydrogels Toward Therapeutic anofactories	\$35,000 Iman Noshadi	Manoj Pandey,Subash Jonnalagadda	Chemical Engineering	New Jersey Health Foundation, Inc. (NJHF)
D Printed Gradient Scaffolds for Repair of the Annulus Fibrosus of the tervertebral Disc	\$328,042 Andrea Vernengo		Chemical Engineering	National Institutes of Health (NIH)
ecellularization of Intervertebral Disc Tissue using Pulsed Electric Field sposures	\$35,000 Gary Thompson		Chemical Engineering	New Jersey Health Foundation, Inc. (NJHF)
ystems analysis to evaluate cardiotoxic effects in survivors of pediatric ancers	\$35,000 Kirti Yenkie		Chemical Engineering	New Jersey Health Foundation, Inc. (NJHF)
almer International: FFS Agreement	\$0 Joseph Stanzione		Chemical Engineering	Palmer International, Inc.
eveloping Safety Performance Functions for Rural Two-Lane Highways at Incorporate Speed Measures	\$170,000 Mohammad Jalayer	Nasrine Bendjilali,Seyed- Farzan Kazemi	Civil/Env Engineering	TransDAC LLC
etection of Poly- and Perfluoroalkyl Substances (PFASs) in New Jersey ivers and Wastewater Treatment Plants	\$20,000 Sarah Bauer	Iman Noshadi	Civil/Env Engineering	NJ Water Resources Research Institute
pplication of an Innovative Method in Determining the Impacts of Air uality on Human Health in Urban Settings	\$25,001 Maryam Karimi		Civil/Env Engineering	US Department of Environmental Protection Agency (USEPA)
rong-Way Driving Solutions, Policy, and Guidance	\$39,984 Mohammad Jalayer		Civil/Env Engineering	Auburn University
haracterizing Near-Surface Temperature Variation and Air Quality for limate Health Impacts in Camden, NJ	\$25,001 Maryam Karimi		Civil/Env Engineering	US Department of Environmental Protection Agency (USEPA)
on thesis of National Best Practices on Pedestrian and Bicycle Design, uidance and Technology Innovations	\$69,983 Mohammad Jalayer		Civil/Env Engineering	Texas A&M Transportation
dvanced Pothole Repair	\$344,000 Ayman Ali	Cheng Zhu	Civil/Env Engineering	NJ Department of Transportation (NJDOT)
icrostructure-Enriched 3D Printed Tablets for Tunable Drug Release	\$35,000 Cheng Zhu	Amir Miri Ramsheh, Ben Wu	Civil/Env Engineering	New Jersey Health Foundation, Inc. (NJHF)
ational Consortium for Transportation Infrastructure, Durability and siliency	\$149,999 Yusuf Mehta	Ayman Ali,Cheng Zhu	Civil/Env Engineering	Louisiana State University
ne Shaker Shield - An Innovative Technology for Inhabitant Protection in igh Seismic Risk Areas	\$50,000 Cheng Zhu	Chuck McGlynn,Hong Zhang	Civil/Env Engineering	National Science Foundation (NSF)
etermine Impact of E-pave product on Life of Hot mix Asphalt	\$80,000 Yusuf Mehta	Ayman Ali	Civil/Env Engineering	ePAVE, LLC
TL Core Testing	\$0 Caitlin Purdy		Civil/Env Engineering	Construction Technology Laboratories, Inc.
ong Term Pavement Performance (LTPP) Material Reference Library MRL)	\$281,790 Ayman Ali		Civil/Env Engineering	Armand Corporation
ow-Cost and Reliable CubeSat Technologies	\$25,000 Sangho Shin	John Schmalzel,Robert Krchnavek	Electrical/Computer Engineering	Rutgers, The State University of New Jersey

Optimize Student Learning through Personalized Instruction and Need-aware Gaming (PING)	\$299,992 Ying Tang	Robi Polikar,Sarah Ferguson	Electrical/Computer Engineering	National Science Foundation (NSF)
Rowan's Graduate Fellowship Prepares for the Modern Age of Artificial Intelligence (Rowan's Prepare.AI)	\$1,194,000 Ghulam Rasool	Bo Sun,Cheryl Bodnar,Francis Haas,Nidhal Bouaynaya,Ravi Ramachandran,Robi Polikar,Shen-Shyang Ho,Vahid Heydari	Electrical/Computer Engineering	US Department of Education
Gross Tumor Segmentation using Optimal Mass Transport Loss Function	\$124,616 Ghulam Rasool	Nidhal Bouaynaya	Electrical/Computer Engineering	Varian Medical Systems
Real-time Imaging Guidance for Curative Cancer Surgery	\$34,900 Ben Wu	Spencer Brown,Xiao Hu,Ying Tang	Electrical/Computer Engineering	New Jersey Health Foundation, Inc. (NJHF)
Collaborative Research: Enhancing STEM Education with Machine Learning and Artificial Intelligence Applications: A University-Industry Cooperative Strategy	\$149,932 Ravi Ramachandran	Amy Accardo,Nidhal Bouaynaya	Electrical/Computer Engineering	National Science Foundation (NSF)
EnaBLe - An Enhanced Bionic Limb	\$35,000 Ghulam Rasool		Electrical/Computer Engineering	New Jersey Health Foundation, Inc. (NJHF)
E4SPA: Elearning Course for Sustainable Production Automation	\$10,000 Ying Tang		Electrical/Computer Engineering	IEEE Robotics & Automation Society
Searching Optimal Policies for Brain Tumor Treatment Using Reinforcement Learning	\$5,000 Ghulam Rasool		Electrical/Computer Engineering	Google Inc
RESEARCH EXPERIENCE FOR TEACHERS: ROWAN'S RESEARCH OPPORTUNITIES PARTNER INDUSTRIES WITH COMMUNITY COLLEGE EDUCATORS TO SEIZE THE DATA REVOLUTION	\$599,954 Nidhal Bouaynaya	Amy Accardo,Chun Wu,Francis Haas,Ghulam Rasool,Issam Abi-El- Mona,Kauser Jahan,Maryam Karimi,Ravi Ramachandran,Rouzbeh Nazari,Shreekanth Mandayam	Engineering Dean	National Science Foundation (NSF)
ShiRAS: Towards Safe and Reliable Autonomy in Sensor Driven Systems	\$299,592 Nidhal Bouaynaya	Ghulam Rasool	Engineering Dean	National Science Foundation (NSF)
MRIMATH: A Software for Coordinates and Volumetrics in MRI Brain Imaging	\$35,000 Nidhal Bouaynaya		Engineering Dean	New Jersey Health Foundation, Inc. (NJHF)
Promoting Education in Green Transportation through the Formula Electric Clinic	\$50,000 Anu Osta	Ratneshwar Jha	Mechanical Engineering	Constellation
Dual-Mode Tactile Sensor Arrays Inspired by Mechanoreceptors in Human Fingers	\$35,000 Wei Xue	Jeffrey Hettinger	Mechanical Engineering	New Jersey Health Foundation, Inc. (NJHF)
3D Printed Miniaturized Bio-Energy Storage Devices for Advanced Manufacturing of Bioelectronics	\$35,000 Nourouddin Sharifi	Iman Noshadi	Mechanical Engineering	New Jersey Health Foundation, Inc. (NJHF)
Vocal Fold In Situ Printing	\$35,000 Amir Miri Ramsheh	Anu Osta	Mechanical Engineering	New Jersey Health Foundation, Inc. (NJHF)
Cardiac State-of-Health Monitoring through ECG+SCG	\$35,000 Francis Haas	Wei Xue	Mechanical Engineering	New Jersey Health Foundation, Inc. (NJHF)
Design, construction, and evaluation of implants for vocal fold alteration and reconstruction *Resubmission	\$747,644 Amir Miri Ramsheh		Mechanical Engineering	McGill University
SEE (8)	\$1,564,662			
STEAM Academy	\$10,383 Eric Milou	Kara Ieva	Earth & Environment Dean	American Mathematical Society (AMS)
Network Analysis of Ancient Mineral Chemistry to Reconstruct the Redox Environments of Early Life: Building the Foundation for BioCatalysis (NetBFBC)	\$422,161 Elisha Moore	Stephanie Spielman	Environmental Science	National Science Foundation (NSF)
Air Mountain Presents the Shaker Shield	\$50,000 Chuck McGlynn	Cheng Zhu	Geography, Planning, and Sustainability	Venture Well
National Guard Facilities GIS Internship Program, Year 4	\$172,906 John Hasse	·	Geography, Planning, and Sustainability	NJ Dept. of Military and Veteran Affairs (NJDMAVA)
NJ MAP Operational Support 2019 - Dodge	\$77,506 John Hasse		Geography, Planning, and Sustainability	The Geraldine R. Dodge Foundation
Investigating Mechanisms for Post-Depositional Heating in Sedimentary Basins: A case study in the Michigan Basin, USA	\$54,865 Andrea Goddard		Geology	American Chemical Society- Petroleum Research Fund (ACS PRF)
Collaborative Research: Diagenetic controls on the preservation of soft tissues and biomolecules in fossil bones	\$584,725 Paul Ullmann		Geology	National Science Foundation (NSF)

\$192,116 Gerald Rustic		Geology	National Science Foundation (NSF)
\$11,758,172			
\$45,000 Sean McBride		Cell Biology	FRAXA Research Foundation
\$1,207,500 Paola Leone	Jeremy Francis	Cell Biology & Neuroscience	National Institutes of Health (NIH)
\$533,062 Barry Waterhouse	Daniel Chandler,Rachel Navarra	Cell Biology & Neuroscience	New Jersey Commission on Brain Injury Research
\$442,750 David Devilbiss	Barry Waterhouse,Rachel Navarra	Cell Biology & Neuroscience	National Institutes of Health (NIH)
\$437,037 Barry Waterhouse	Daniel Chandler,Rachel Navarra	Cell Biology & Neuroscience	National Institutes of Health (NIH)
\$35,000 Paola Leone	Jeremy Francis	Cell Biology & Neuroscience	New Jersey Health Foundation, Inc. (NJHF)
\$27,725 Daniel Manvich		Cell Biology & Neuroscience	New Jersey Health Foundation, Inc. (NJHF)
\$23,750 Benjamin Rood		Cell Biology & Neuroscience	New Jersey Health Foundation, Inc. (NJHF)
\$35,000 Dmitriy Markov		Cell Biology & Neuroscience	New Jersey Health Foundation, Inc. (NJHF)
\$180,000 David Devilbiss		Cell Biology & Neuroscience	New Jersey Commission on Brain Injury Research
\$25,000 Carl Hock		Cell Biology & Neuroscience	New Jersey Health Foundation, Inc. (NJHF)
\$1,000 Paola Leone		Cell Biology & Neuroscience	New Jersey Health Foundation, Inc. (NJHF)
\$69,934 Esther Deblinger		Child Abuse Research Education & Service Institute (CARES)	Help For Children
\$69,937 Esther Deblinger		Child Abuse Research Education & Service Institute (CARES)	Help For Children
\$25,000 Wendy Aita	Jennifer LeComte	Developmental Disabilities	American Academy of Developmental Medicine and Dentistry
\$74,407 Joshua Coren	Xitlalichomiha O'Dell	Family Medicine	Health Resources and Services Administration (HRSA)
\$630 Shauna Goetz		Graduate Medical Education	Arthrex
\$2,296,018 Randy Strich	Jan Jezek	Molecular Biology	National Institutes of Health (NIH)
\$2,012,500 Randy Strich	Jan Jezek,Kai-Ti Chang	Molecular Biology	National Institutes of Health (NIH)
\$35,000 Renee Demarest	Jeffrey Hettinger,Lei Yu	Molecular Biology	New Jersey Health Foundation, Inc. (NJHF)
\$1,811,250 Katrina Cooper		Molecular Biology	National Institutes of Health (NIH)
\$31,000 Brian Weiser		Molecular Biology	New Jersey Health Foundation, Inc. (NJHF)
\$32,992 Gary Goldberg		Molecular Biology	National Institutes of Health (NIH)
\$35,000 Katrina Cooper		Molecular Biology	New Jersey Health Foundation, Inc. (NJHF)
\$35,000 Nimish Acharya	Bradford Fischer,Robert Nagele,Venkateswar Venkataraman	New Jersey Institute for Successful Aging (NJISA)	New Jersey Health Foundation, Inc. (NJHF)
\$149,820 Nimish Acharya		New Jersey Institute for Successful Aging (NJISA) New Jersey Institute for Successful Aging (NJISA)	
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OPEND-PORT to Life		\$35,000 Richard Jermyn	Linda Boyd	Rehabilitation Medicine	New Jersey Health Foundation, Inc. (NJHF)
FY19 EOF - Graduate Biomedical		\$22,250 Linda Boyd		School of Osteopathic Medicine Dean	The New Jersey Office of the Secretary of Higher Education (OSHE)
	RU Total (139)	\$47,448,626			