

# ANNUAL REPORT

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2018-2019



OFFICE OF SPONSORED PROGRAMS



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## Executive Summary

During FY-2019, Rowan University raised a total of \$59.3M in sponsored programs and projects. These awards include grants and contracts from government, industry, foundations, and private sources to support faculty scholarly and service activities.

In FY-2019 Rowan University realized an increase of 34% over last year.

Dr. Beena Sukumaran  
*Vice President for Research*

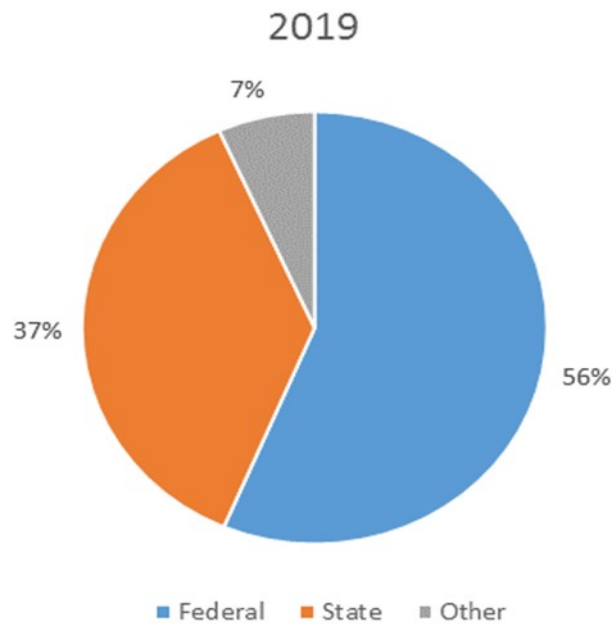
# Total External Funds Raised

Unit	PROPOSALS		AWARDS		
	#	Amount	#	Indirect	Award Totals
Administration	16	\$ 2,093,346	6	\$ 53,850	\$ 263,589
College of Communication and Creative Arts	6	\$ 146,431	2	\$ -	\$ 16,000
College of Education	20	\$ 4,127,048	12	\$ 211,388	\$ 2,232,179
College of Humanities and Social Sciences	14	\$ 2,312,155	4	\$ 106,432	\$ 426,024
College of Performing Arts	5	\$ 264,500	4	\$ 1,852	\$ 45,225
College of Science and Mathematics / School of Health Professions	96	\$ 42,039,140	41	\$ 511,084	\$ 2,398,203
Cooper Medical School of Rowan University	32	\$ 8,148,315	13	\$ 282,736	\$ 1,776,635
Henry M. Rowan College of Engineering	138	\$ 51,783,695	67	\$ 3,649,807	\$ 26,524,127
Rohrer College of Business	1	\$ 25,000	1	\$ -	\$ 25,000
School of Earth and Environment	23	\$ 4,807,463	10	\$ 112,627	\$ 603,869
School of Osteopathic Medicine	97	\$ 60,641,714	52	\$ 2,534,593	\$ 25,028,287
<b>TOTAL</b>	<b>448</b>	<b>\$ 76,388,807</b>	<b>212</b>	<b>\$7,464,368</b>	<b>\$59,339,138</b>

# Award Sources Comparison

	2019 Awards	2018 Awards	Comparison
<b>Federal Awards</b>	\$ 33,462,214	\$ 14,768,927	\$ 18,693,287
<b>State Awards</b>	\$ 21,880,803	\$ 21,573,080	\$ 307,723
<b>Other Awards</b>	\$ 3,996,121	\$ 3,310,480	\$ 685,641
<b>Total Awards</b>	\$ 59,339,138	\$ 39,652,487	\$ 19,686,651

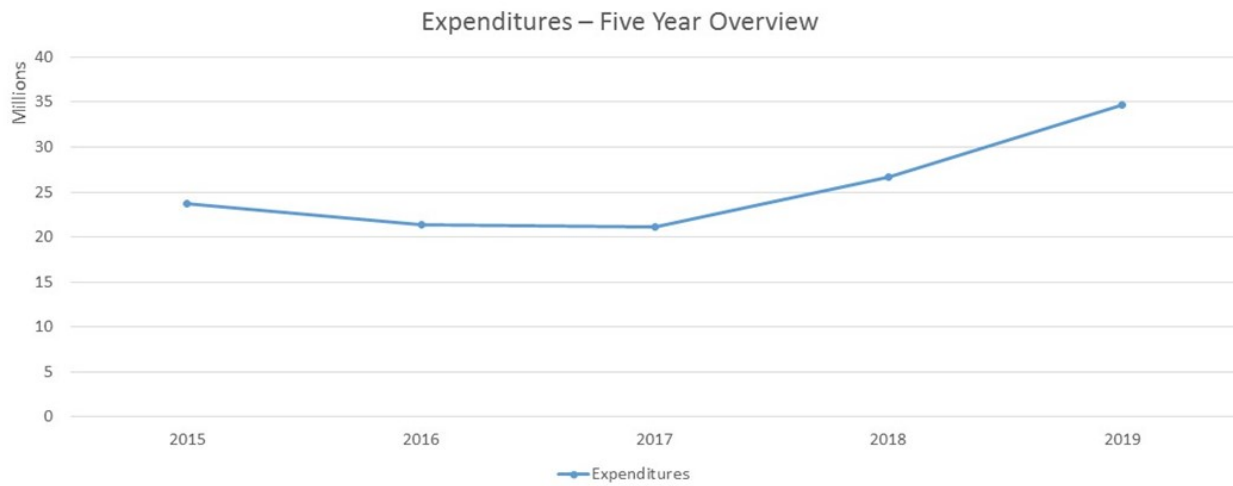
## 2019 Award Funding Sources





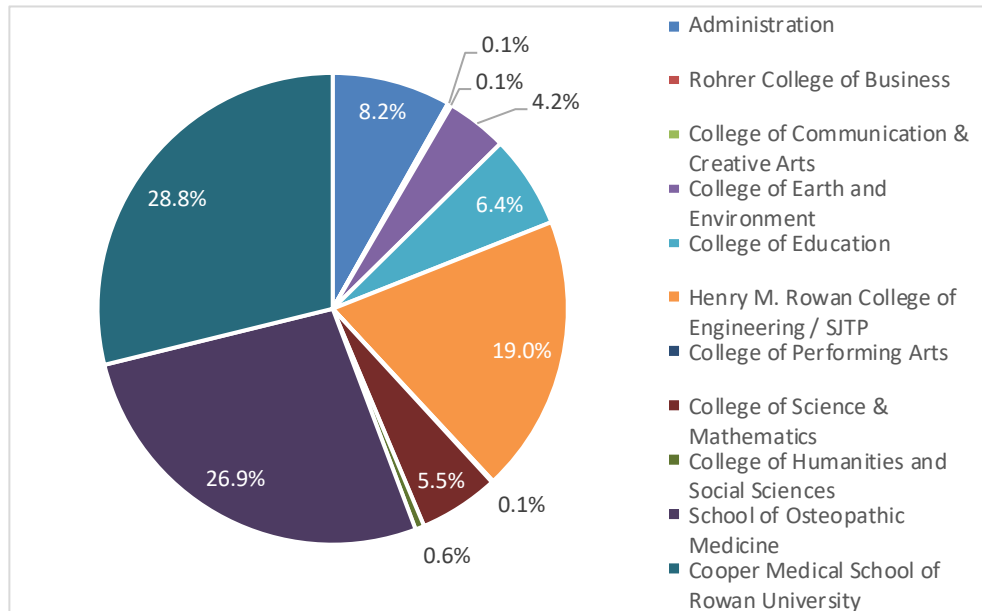
# Expenditure Comparison

	2019 Expenditures	2018 Expenditures	Increase in Expenditures
<b>Total Expenditures</b>	\$ 34,738,555	\$ 26,661,357	\$ 8,077,198

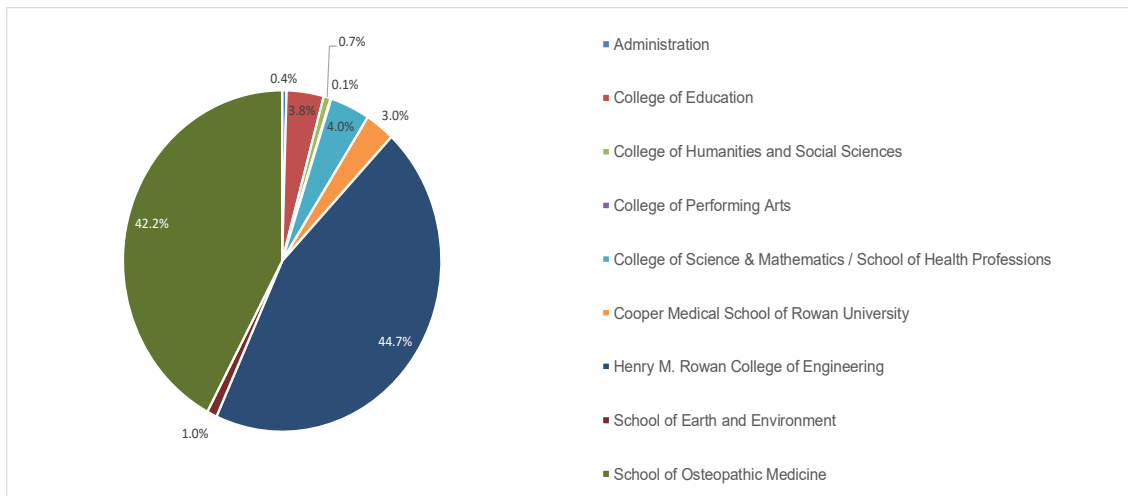


# Unit Comparison Data

## FY 18 Percentage of Awards by Unit



## FY 19 Percentage of Awards by Unit





# Unit Comparison Data

Units	Percentage of Total Award \$		Percentage of Total Proposal #	
	FY19	FY18	FY19	FY18
Administration	1.2%	2.3%	0.4%	8.1%
College of Communication &	0.1%	1.4%	0.0%	0.1%
College of Education	2.3%	5.9%	3.8%	6.3%
College of Humanities and Social	1.3%	3.4%	0.7%	0.6%
College of Performing Arts	0.1%	0.8%	0.1%	0.1%
College of Science & Mathematics / School of Health Professions	23.8%	25.2%	4.0%	5.9%
Cooper Medical School of Rowan	4.6%	6.8%	3.0%	28.7%
Henry M. Rowan College of	29.4%	28.9%	44.7%	19.0%
Rohrer College of Business	0.0%	0.8%	0.0%	0.1%
School of Earth and Environment	2.7%	3.7%	1.0%	4.2%
School of Osteopathic Medicine	34.4%	20.7%	42.2%	26.8%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

# Administration Awards & Proposals

Administration					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
English Language Programs	3	\$ 271,785	1	\$ 807	\$ 10,891
Library Services	2	\$ 48,725	1	\$ -	\$ 40,000
Equity, Diversity, & Inclusion	1	\$ 67,385	1	\$ 34,694	\$ 157,650
VR Lab	3	\$ 55,048	3	\$ 18,349	\$ 55,048
Academic Success Center	-	\$ -	-	\$ -	\$ -
CHAMP/GEAR UP	3	\$ 906,176	-	\$ -	\$ -
EOF	3	\$ 642,227	-	\$ -	\$ -
Advancement	1	\$ 2,000	-	\$ -	\$ -
<b>Total</b>	<b>16</b>	<b>\$ 2,093,346</b>	<b>6</b>	<b>\$ 53,850</b>	<b>\$ 263,589</b>

## Awards

### English Language Programs

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Rowan University Upward Bound Program for English Language Learners	Margarita Olivencia	US Department of Education	\$10,891.00	\$806.00

### Library Services

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Regional Training in Primary Sources for Teachers	Michelle Kowalsky	Waynesburg University	\$40,000.00	\$0.00

### VP Equity, Diversity, Inclusion

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Preventing Campus Sexual Violence through Peer-to-Peer Advocacy and Healthy Campus Climate Initiatives	Margaret Viggiano	NJ Department of Law & Public Safety	\$157,650.00	\$34,694.00

### VR Lab

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Augmented Reality Experience for Anthem Chief Digital Officer	Shreek Mandayam	Anthem, Inc.	\$15,000.00	\$5,000.00
Augmented Reality Applications	Shreek Mandayam	Naval Sea Systems Command (NAVSEA)	\$25,000.00	\$8,333.00
Entertainment Data Visualization Inside a Virtual Reality Trade Booth for Internet Video Archive	George Lecakes	Internet Video Archives LLC	\$15,048.00	\$5,016.00

# Administration Proposals

## Academic Success Center

Title	Principal Investigator	Sponsor	Requested Amount
University Disability Services Study Tour: U.S.-Egypt Higher Education Initiative (HEI), Public University Scholarships Program	John Woodruff	AMIDEAST	\$233,499.00
The Autism PATH (Preparation & Achievement of Transition to Hire) Program for Students with Autism Spectrum Disorder at Rowan University	John Woodruff	Kessler Foundation	\$33,310.00
College Transition Supports	John Woodruff	Autism Speaks Inc	\$4,976.00

## CHAMP/GEAR UP

Title	Principal Investigator	Sponsor	Requested Amount
C.H.A.M.P. Program	Winona Wigfall	The New Jersey Office of the Secretary of Higher Education	\$440,051.00
Spring 2019 Activity Grant for Pre-Summer Activities.	Winona Wigfall	The New Jersey Office of the Secretary of Higher Education	\$25,000.00
C.H.A.M.P. Program	Winona Wigfall	The New Jersey Office of the Secretary of Higher Education	\$441,125.00

## Educational Opportunity Fund

Title	Principal Investigator	Sponsor	Requested Amount
EOF Camden Summer FY20	Dawn Singleton	New Jersey Higher Education	\$155,136.00
EOF Glassboro Summer FY20	Dawn Singleton	New Jersey Higher Education	\$462,091.00
STAR STEM Academy	Dawn Singleton	AT&T Foundation	\$25,000.00

## Library Services

Title	Principal Investigator	Sponsor	Requested Amount
Augmented Museum Initiative	Michael Benson	LYRISIS	\$8,725.00
Regional Training in Primary Sources for Teachers	Michelle Kowalsky	Waynesburg University	\$40,000.00

## VP Advancement

Title	Principal Investigator	Sponsor	Requested Amount
Academic Corporate & Foundation Relations Officer Roundtable - NJ/PA/DE	Cassandra Dramis	Council for Advancement and Support of Education	\$2,000.00

## VP Equity, Diversity, Inclusion

Title	Principal Investigator	Sponsor	Requested Amount
Preventing Campus Sexual Violence through Peer-to-Peer Advocacy and Healthy Campus Climate Initiatives	Margaret Viggiano	NJ Department of Law & Public Safety	\$167,385.00

## VR Lab

Title	Principal Investigator	Sponsor	Requested Amount
Entertainment Data Visualization Inside a Virtual Reality Trade Booth for Internet Video Archive	George Lecakes	Internet Video Archives LLC	\$15,048.00
Augmented Reality Experience for Anthem Chief Digital Officer	Shreek Mandayam	Anthem, Inc.	\$15,000.00
Augmented Reality Applications	Shreek Mandayam	Naval Sea Systems Command (NAVSEA)	\$25,000.00

# Rohrer College of Business Awards & Proposals

William G. Rohrer College of Business					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
<b>Dean's Office</b>	1	\$25,000	1	\$ -	\$ 25,000
<b>Total</b>	<b>1</b>	<b>\$ 25,000</b>	<b>1</b>	<b>\$ -</b>	<b>\$ 25,000</b>

## Awards

### Dean's Office

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Think Like An Entrepreneur Boot Camp	Eric Liguori	TD Charitable Foundation	\$25,000.00	\$0.00

## Proposals

### Dean's Office

Title	Principal Investigator	Sponsor	Requested Amount
Think Like An Entrepreneur Boot Camp	Eric Liguori	TD Charitable Foundation	\$25,000.00

# College of Communication & Creative Arts

## Awards & Proposals

College of Communication and Creative Arts					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
<b>Art Gallery</b>	3	\$ 45,000	2	\$ -	\$ 16,000
<b>Journalism</b>	2	\$ 31,456	-	\$ -	\$ -
<b>Writing Arts</b>	1	\$ 69,975	-	\$ -	\$ -
<b>Total</b>	<b>6</b>	<b>\$ 146,431</b>	<b>2</b>	<b>\$ -</b>	<b>\$ 16,000</b>

### Awards

#### Art Gallery

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Rowan Art Gallery General Support	Mary Salvante	NJ State Council on the Arts	\$6,000.00	\$ -
Heather Ujii: Dystopian Garden Paradise	Mary Salvante	Coby Foundation, LTD	\$10,000.00	\$ -

### Proposals

#### Art Gallery

Title	Principal Investigator	Sponsor	Requested Amount
James Richmond-Edwards	Mary Salvante	The Joseph Robert Foundation	\$5,000.00
James Richmond-Edwards	Mary Salvante	Coby Foundation, LTD	\$10,000.00
Art Gallery Funding	Mary Salvante	NJ State Council on the Arts (NJSCA)	\$30,000.00

#### Journalism

Title	Principal Investigator	Sponsor	Requested Amount
The Climate Change Reporting Project	Dianne Garyantes	The Philadelphia Foundation	\$24,681.00
Local Climate Change Reporting Project	Dianne Garyantes	Odessa & Henry Kahrs Trust	\$6,775.00

#### Writing Arts

Title	Principal Investigator	Sponsor	Requested Amount
Singularity Press Startup	Megan Atwood	Amazon	\$69,975.00

# School of Earth and Environment Awards & Proposals

School of Earth and Environment					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
<b>Geography, Planning, and Sustainability</b>	10	\$ 679,489	9	\$ 64,852	\$ 446,017
<b>Geology</b>	4	\$ 1,076,757	1	\$ 47,775	\$ 157,852
<b>Dean's Office</b>	2	\$ 20,383	-	\$ -	\$ -
<b>Environmental Science</b>	7	\$ 3,030,834	-	\$ -	\$ -
<b>Total</b>	<b>23</b>	<b>\$ 4,807,463</b>	<b>10</b>	<b>\$ 112,627</b>	<b>\$ 603,869</b>

## Awards

### Geography, Planning & Sustainability

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
New Jersey Council for the Humanities Water/Ways Environmental Humanities Scholar	Jennifer Kitson	New Jersey Council for the Humanities (NJCH)	\$10,000.00	\$0.00
National Guard Facilities GIS Internship Program	John Hasse	NJ Dept. of Military and Veteran Affairs	\$172,906.00	\$35,679.00
NJ MAP Operational Support 2018 -2019	John Hasse	F. M. Kirby Foundation	\$20,000.00	\$0.00
Conservation Blueprint 2018 - Phase 3a	John Hasse	Nature Conservancy	\$20,000.00	\$0.00
NJ MAP Camden Green+Healthy	John Hasse	New Jersey Conservation Foundation	\$40,000.00	\$3,636.00
Nature Conservancy - NJ Blueprint - Paulinskill Study 2019	John Hasse	Nature Conservancy	\$50,000.00	\$3,000.00
NJ MAP Operational Support 2019 - Dodge	John Hasse	The Geraldine R. Dodge Foundation	\$65,000.00	\$0.00
Fair Share Housing Center NJ Land Analysis 2017	John Hasse	Fair Share Housing Center	\$5,000.00	\$1,666.67
Garbage in the Garden (State): Ecological Identity & Solid Waste Governance in New Jersey	Jordan Howell	National Science Foundation	\$63,111.00	\$20,870.00

### Geology

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
A Coupled Antarctic Cryosphere System: Linking Ice Sheet Surface Mass Balance Processes and Ocean Surface Variability Across Coastal Antarctica	Luke Trusel	National Aeronautics Space Administration	\$157,852.00	\$47,775

# School of Earth and Environment Proposals (continued)

## Dean's Office

Title	Principal Investigator	Sponsor	Requested Amount
STEAM Academy	Eric Milou	American Mathematical Society (AMS)	\$10,383.00
STEAM Academy	Melissa Speck	Atlantic City Electric	\$10,000.00

## Environmental Science

Title	Principal Investigator	Sponsor	Requested Amount
Identification of Microbiome Function within Flooded Wetland Soils for Multiscale Biogeochemical Models of Methane Cycling	Charles Schutte	University of Tennessee - Knoxville	\$297,750.00
Combining cutting-edge sensors to detect salinity-driven changes in salt marsh methane fluxes	Charles Schutte	Alfred P. Sloan Foundation	\$1,128,795.00
RUI: Museum-Based Phylogenomics as a Tool for Undergraduate Training: Understanding the Systematics and Evolution of Tiger Beetles	Daniel Duran	National Science Foundation (NSF)	\$341,021.00
Network Analysis of Ancient Mineral Chemistry to Reconstruct the Redox Environments of Early Life: Building the Foundation for BioCatalysis (NetBFBC)	Elisha Moore	National Science Foundation (NSF)	\$422,161.00
Restoring Coastal Dunes with Biochar to Protect Rural Agriculture, Enhance Coastal Community Security, and Sequester Carbon	Elisha Moore	U.S Department of Agriculture National Institute of Food and Agriculture (USDA - NIFA)	\$194,591.00
dragon: Deep-Time Planetary Redox Analysis	Elisha Moore	National Aeronautics & Space Administration (NASA)	\$323,436.00
RUI - dragon: Deep-Time Redox Analysis of the Geobiology Ontology Network - A new tool for investigating the coevolution of the geosphere and biosphere	Elisha Moore	National Science Foundation (NSF)	\$323,080.00

# School of Earth and Environment Proposals (continued)

## Geography, Planning & Sustainability

Title	Principal Investigator	Sponsor	Requested Amount
Air Mountain Presents the Shaker Shield	Chuck McGlynn	Venture Well	\$50,000.00
New Jersey Council for the Humanities Water/Ways Environmental Humanities Scholar	Jennifer Kitson	New Jersey Council for the Humanities (NJCH)	\$10,000.00
Watershed Storytelling: Connecting People, Place, and Water	Jennifer Kitson	New Jersey Council for the Humanities (NJCH)	\$20,000.00
NJ MAP Operational Support 2019 - Dodge	John Hasse	The Geraldine R. Dodge Foundation	\$77,506.00
National Guard Facilities GIS Internship Program, Year 4	John Hasse	NJ Dept. of Military and Veteran Affairs (NJDMAVA)	\$172,906.00
Conservation Blueprint 2018 - Phase 3a	John Hasse	Nature Conservancy	\$20,000.00
NJ MAP Operational Support 2019-2020	John Hasse	F. M. Kirby Foundation	\$25,000.00
Nature Conservancy - NJ Blueprint-Paulinskill Study 2019	John Hasse	Nature Conservancy	\$50,000.00
NJ MAP Camden Green+Healthy	John Hasse	New Jersey Conservation Foundation	\$40,000.00
NJ Highlands Interactive Environmental Resource Inventory	John Hasse	Highlands Council	\$214,077.00

## Geology

Title	Principal Investigator	Sponsor	Requested Amount
Investigating Mechanisms for Post-Depositional Heating in Sedimentary Basins: A case study in the Michigan Basin, USA	Andrea Goddard	American Chemical Society- Petroleum Research Fund (ACS PRF)	\$55,000.00
Collaborative Research: Exhumation of deep-seated rocks within climate-influenced and oblique orogenic systems	Andrea Goddard	National Science Foundation (NSF)	\$244,916.00
Testing modes of ENSO variability: The spatial expression of tropical variability during the Last Glacial Maximum	Gerald Rustic	National Science Foundation (NSF)	\$192,116.00
Collaborative Research: Diagenetic controls on the preservation of soft tissues and biomolecules in fossil bones	Paul Ullmann	National Science Foundation (NSF)	\$584,725.00



# College of Education Awards & Proposals

College of Education					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
<b>Center for Access, Success, and Equity</b>	4	\$ 1,779,531	5	\$ 73,958	\$ 1,488,309
<b>Interdisciplinary and Inclusive Education</b>	5	\$ 1,582,034	4	\$ 137,430	\$ 600,660
<b>Language, Literacy, and Sociocultural Education</b>	3	\$ 144,200	2	\$ -	\$ 137,210
<b>STEAM Education</b>	1	\$ 6,000	1	\$ -	\$ 6,000
<b>Educational Services and Leadership</b>	5	\$ 142,074	-	\$ -	\$ -
<b>Dean's Office</b>	2	\$ 473,209	-	\$ -	\$ -
<b>Total</b>	<b>20</b>	<b>\$ 4,127,048</b>	<b>12</b>	<b>\$ 211,388</b>	<b>\$ 2,232,179</b>

## Awards

### Center for Access, Success, and Equity

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Measurement of Young Peoples Policy Arguments in Authentic Contexts	Shelley Zion	University of Colorado - Boulder	\$2,500.00	\$326.00
Camden Promise Neighborhood	Shelley Zion	Center For Family Services (CFS)	\$146,606.00	\$13,206.00
Critical Civic Inquiry: Student Centered Learning	Shelley Zion	Jobs for the Future	\$399,874.00	\$52,157.00
Early Intervention Program	Roberta Dihoff	NJ Department of Health	\$875,934.75	\$0.00
Transforming Student Voice	Shelley Zion	University of Colorado - Boulder	\$63,394.00	\$8,269.00

### Interdisciplinary and Inclusive Education

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Early Childhood Leadership Training for PreK Expansion Program	Zeynep Isik-Ercan	NJ Department of Education (NJDE)	\$77,220.00	\$7,020.00
Southern Learning Resource Center at Rowan University	Lisa Vernon-Dotson	NJ Department of Education (NJDE)	\$85,145.00	\$90,565.00
Early Childhood Leadership Institute - Grow NJ Kids	Zeynep Isik-Ercan	NJ Department of Human Services	\$392,590.00	\$35,690.00
Early Childhood Leadership Training for PreK Expansion Program	Zeynep Isik-Ercan	NJ Department of Education (NJDE)	\$45,705.00	\$4,155.00

### Language, Literacy, & Sociocultural Education

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Language, Literacy, & Culture in Oaxaca, Mexico: A Rowan Summer Experience for K-12	Stephanie Abraham	US Department of Education	\$87,232.00	\$0.00
Translanguaging as Resistance and Restoration: Languages and Literacies in a Bilingual Community Writing Program	Stephanie Abraham	Spencer Foundation	\$49,978.00	\$0.00

### STEAM

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Using Strings to Increase Engagement and Change Discourse in Secondary Math Classrooms	Rob Wieman	National Council of Teachers of Mathematics	\$6,000.00	\$0.00

# College of Education Proposals

## Center for Access, Success and Equity

Title	Principal Investigator	Sponsor	Requested Amount
Learning Resource Center - South	Lisa Vernon-Dotson	NJ Department of Education (NJDE)	\$1,180,924.00
Transforming Student Voice	Shelley Zion	University of Colorado - Boulder	\$62,404.00
Camden Promise Neighborhood	Shelley Zion	Center For Family Services (CFS)	\$137,128.00
Integrating student voice into the fabric of school decision making in two states	Shelley Zion	Spencer Foundation	\$399,075.00

## Dean Education

Title	Principal Investigator	Sponsor	Requested Amount
Project MOTIVATE: MOBilizing and Training Inspirational Veterans to Achieve in Teacher Education	Cori Brown	NJ Department of Education (NJDE)	\$99,739.00
Diversifying the Teacher Pipeline: A multi-tiered approach to school-	Monika Williams Shealey	NJ Department of Education (NJDE)	\$373,470.00

## Educational Services and Leadership

Title	Principal Investigator	Sponsor	Requested Amount
A determination of how African academics understand and maximise the existing and potential role of indigenous knowledge and practices in community-based research: Profiling the ecologically minded university and its contribution to sustainable development	Ane Johnson	Nottingham Institute of Education	\$4,261.00
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	Ane Johnson	Spencer Foundation	\$49,907.00
Safe Space and the Ethics of Higher Education	Cecile Sam	The Center for Ethics & Education	\$35,929.00
A Collaborative Approach to Assessment with Community College Faculty	Monica Kerrigan	Council for the Study of Community Colleges	\$2,000.00
School Leadership for Special Education	Qian Sun	Spencer Foundation	\$49,977.00

# College of Education Proposals (continued)

## Interdisciplinary/Inclusive Education

Title	Principal Investigator	Sponsor	Requested Amount
Multi-Country Study on Inclusive Education (MCSIE)	Brent Elder	Inclusive Development Partners	\$110,362.00
Reducing Racial Inequality in Special Education through Professional Development School (PDS) Partnerships (LOI Proposal)	Brent Elder	William T. Grant Foundation	\$421,902.00
William Frantz Public School: A Place-based Inquiry	Cori Brown	University of Nebraska - Omaha	\$4,000.00
Project Collaborate: Exploring the Essential Elements of Co-Teaching	Cori Brown	East Carolina University	\$120,000.00
The Rowan CCAMPIS Program	Hannah Kye	US Department of Education	\$925,770.00

## Language, Literacy, & Sociocultural Education

Title	Principal Investigator	Sponsor	Requested Amount
Translanguaging as Resistance and Restoration: Languages and Literacies in a Bilingual Community Writing Program	Stephanie Abraham	Spencer Foundation	\$50,828.00
Language, Literacy, & Culture in Oaxaca, Mexico: A Rowan Summer Experience for K-12 Educators	Stephanie Abraham	US Department of Education	\$88,372.00
Promoting Multicultural Awareness and Advocacy Among Elementary School Students Through Multicultural Children's Literature	Xiufang Chen	International Literacy Association Elva Knight Research Grant	\$5,000.00

## STEAM Education

Title	Principal Investigator	Sponsor	Requested Amount
Using Strings to Increase Engagement and Change Discourse in Secondary Math Classrooms	Rob Wieman	National Council of Teachers of Mathematics	\$6,000.00

# Henry M. Rowan College of Engineering / South Jersey Technology Park Awards & Proposals

Henry M. Rowan College of Engineering and South Jersey Technology Park					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
<b>Biomedical Engineering</b>	19	\$ 6,333,195	6	\$ 42,027	\$ 347,786
<b>Chemical Engineering</b>	21		12	\$ 1,167,666	\$ 14,647,472
<b>Civil &amp; Environmental Engineering</b>	19	\$ 2,985,140	9	\$ 286,371	\$ 983,797
<b>CREATES</b>	31	\$ 6,932,519	22	\$ 1,954,688	\$ 9,193,520
<b>Electrical/Computer Engineering</b>	20	\$ 5,145,779	8	\$ 10,000	\$ 577,900
<b>Dean's Office</b>	10	\$ 1,411,610	4	\$147,055	\$535,063.00
<b>ExEEEd</b>	5	\$ 1,420,800	2	\$ -	\$ 38,589
<b>Mechanical Engineering</b>	13	\$ 3,780,728	4	\$ 42,000	\$ 200,000
<b>Total</b>	<b>138</b>	<b>\$51,783,695</b>	<b>67</b>	<b>\$ 3,649,807</b>	<b>\$ 26,524,127</b>

## Awards

### Biomedical Engineering

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Development and Characterization of Novel Silicone Hydrogel Lens	Mark Byrne	Gelest, Inc.	\$87,665.00	\$29,222.00
Transplantation of pre-vascularized scaffold for spinal cord injury repair	Peter Galie	Craig H. Neilsen Foundation	\$148,661.00	\$6,305.00
REU: Probing mechanotransduction of disturbed flow in brain vasculature	Peter Galie	National Science Foundation	\$7,960.00	\$0.00
REU: Probing mechanotransduction of disturbed flow in brain vasculature	Peter Galie	National Science Foundation	\$16,000.00	\$0.00
Establishing a mechanistic link between cerebral blood flow and	Peter Galie	American Heart Association	\$71,500.00	\$6,500.00
REU Supplement for Summer Undergraduate Researchers	Vincent Beachley	National Science Foundation (NSF)	\$16,000.00	\$0.00

# Engineering / SJTP Awards (continued)

## Chemical Engineering

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Process Intensification in Food Manufacture - Optimizing Water, Energy, Waste Reduction	C. Stewart Slater	US Environmental Protection Agency	\$25,000.00	\$8,333.00
Injectable, highly sticky, Antimicrobial, and Hemostatic Adhesive for Cornea Injury Repair	Iman Noshadi	National Science Foundation (NSF)	\$50,000.00	\$5,000.00
High Performance Polymers Research	Joseph Stanzione	PPG	\$830,224.00	\$105,078.00
Palmer International: FFS Agreement	Joseph Stanzione	Palmer International, Inc.	\$300.00	\$100.00
FFS: Coperion Fee-for-Service Account	Joseph Stanzione	Coperin	\$1,066.66	\$355.55
High Performance Polymers Research	Joseph Stanzione	PPG	\$617,559.00	\$93,798.00
Advancing Structural Materials for Army Modernization Priorities Via Direct Write Approaches	Joseph Stanzione	US Department of Defense	\$12,778,466.00	\$865,834.00
FFS: Coperion Fee-for-Service Account	Joseph Stanzione	Coperin	\$145.00	\$48.33
Palmer International: FFS Agreement	Joseph Stanzione	Palmer International, Inc.	\$600.00	\$200.00
Roadmap for Solvent Recovery in Industrial Manufacturing: Enhancing Process Efficiency through Resource Minimization	Kirti Yenkie	US Department of Environmental Protection Agency (USEPA)	\$147,529.00	\$44,747.00
Roadmap for Solvent Recovery in Industrial Manufacturing: Enhancing Process Efficiency through Resource Minimization	Kirti Yenkie	US Department of Environmental Protection Agency (USEPA)	\$141,582.00	\$44,172.00
Liquid fibers for continuously operated liquid-liquid extraction	Martin Haase	American Chemical Society- Petroleum Research Fund	\$55,000.00	\$0.00

## Dean's Office

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Visualization of unmanned aircraft systems (UAS) within a CAVE Virtual Reality Environment : A Feasibility	Nidhal Bouaynaya	Federal Aviation Administration	\$87,054.00	\$28,185.00
Design Multifunctional Protein-based Film Materials for Thermal Conductivity	Anthony Lowman	Sekisui Chemical Co., Ltd.	\$80,000.00	\$13,775.00
ShiRAS: Towards Safe and Reliable Autonomy in Sensor-Driven Systems	Nidhal Bouaynaya	Lockheed Martin	\$68,417.00	\$20,139.00
ShiRAS: Towards Safe and Reliable Autonomy in Sensor Driven Systems	Nidhal Bouaynaya	National Science Foundation (NSF)	\$299,592.00	\$84,956.00

# Engineering / SJTP Awards (continued)

## Civil & Environmental Engineering

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Creation of a library of novel examples for an enriching geotechnical engineering learning experience	Cheng Zhu	US Universities Council on Geotechnical Education and Research	\$5,000.00	\$370.00
Microstructural effects on creep and fatigue in heterogeneous salt	Cheng Zhu	State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation	\$11,604.00	\$726.00
NJARNG/Rowan University Energy/Building Information Model (BIM) Intern Program	Jess Everett	NJ Dept. of Military and Veteran Affairs	\$296,060.00	\$98,687.00
NJDMAVA Energy Audit Center	Jess Everett	NJ Dept. of Military and Veteran Affairs	\$55,905.00	\$16,526.00
Facility Maintenance Internship Project	Jess Everett	NJ Dept. of Military and Veteran Affairs	\$213,209.00	\$56,979.00
Regional UTC Program	Rouzbeh Nazari	Rutgers, The State University of New Jersey	\$190,000.00	\$62,000.00
Practical Study of Local and Regional Resilience Planning for Critical Infrastructure Systems and Communities in Coastal Zones	Rouzbeh Nazari	Armand Corporation	\$152,019.00	\$44,006.00
NSF I-Corp: An innovative framework for high resolution quantitative assessment of flood resiliency	Rouzbeh Nazari	National Science Foundation (NSF)	\$50,000.00	\$5,000.00
Regional UTC Program	Rouzbeh Nazari	Rutgers, The State University of New Jersey	\$10,000.00	\$2,077.00

## Mechanical Engineering

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Brain Tumor on Chip for Drug Testing	Amir Miri Ramsheh	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00	\$0.00
Promoting Education in Green Transportation through the Formula Electric Clinic	Anu Osta	Constellation	\$30,000.00	\$4,500.00
Engineering Clinic Program: A platform for documenting the experiences and challenges of female undergraduate students and identify factors influencing their recruitment and retention.	Anu Osta	Engineering Information Foundation	\$15,000.00	\$0.00
Polymer Nanocomposites with Enhanced Dielectric Strength and Reduced Thermal Contraction for Superconductor Cables	Wei Xue	US Department of Defense	\$120,000.00	\$37,500.00

# Engineering / SJTP Awards (continued)

## CREATES

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Performance Testing Asphalt	Caitlin Purdy	Earle Companies	\$6,795.00	\$2,265.00
Air Void check on Crisdel Road Cores	Caitlin Purdy	Crisdel Group, Inc.	\$1,692.50	\$564.17
Performance Testing Asphalt	Caitlin Purdy	Earle Companies	\$4,315.00	\$1,438.33
Performance Testing Asphalt	Caitlin Purdy	Earle Companies	\$0.00	\$0.00
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	Caitlin Purdy	Paulsboro Refining Company, LLC	\$50,000.00	\$16,667.00
The Shaker Shield - An Innovative Technology for Inhabitant Protection in High Seismic Risk Areas	Cheng Zhu	National Science Foundation (NSF)	\$50,000.00	\$5,000.00
Active Earth science learning for K-12 students	Cheng Zhu	Christian and Mary Lindback Foundation	\$2,000.00	\$0.00
Temporary Traffic Control Methods to Improve Safety at Special Events	Mohammad Jalayer	Rutgers, The State University of New Jersey	\$5,044.00	\$1,681.00
Street Smart NJ Evaluation Support	Mohammad Jalayer	Rutgers, The State University of New Jersey	\$85,376.25	\$28,458.75
Evaluation of laboratory performance of binder and Hot mix Asphalt	Yusuf Mehta	American Asphalt Company	\$4,020.00	\$1,340.00
Evaluation of absorption of COVANTA aggregates	Yusuf Mehta	COVANTA	\$20,000.00	\$6,667.00
Innovative Construction Materials to Protect National Security Interests in the Arctic Region	Yusuf Mehta	US Department of Defense	\$3,400,000.00	\$856,552.00
Evaluation of Quality of Road for Sussex County	Yusuf Mehta	Advanced Infrastructure Design	\$3,195.00	\$1,065.00
Conduct Beam Fatigue Test of Hot Mix Asphalt.	Yusuf Mehta	Allan Myers Materials	\$312.50	\$104.17
Investment for Expansion of CREATES at Rowan University - 2019	Yusuf Mehta	The State of New Jersey	\$2,000,000.00	\$0.00
2019 National Summer Transportation Institute (NSTI) Youth Program Statement of Work	Yusuf Mehta	NJ Department of Transportation (NJDOT)	\$59,797.48	\$6,495.32
Innovative Technologies and Materials to Protect National Security Interests in the Arctic	Yusuf Mehta	Department of Army	\$3,400,000.00	\$992,732.00

# Engineering / SJTP Awards (continued)

## CREATES ctd

Title	Principle Investigator	Sponsor	Awarded Amount	Indirect Awarded
FFS: Evaluation of binder and mixes	Yusuf Mehta	South State Inc.	\$0.00	\$0.00
NJEDA Innovation Challenge Opportunity	Yusuf Mehta	Camden County	\$60,000.00	\$20,000.00
Conduct Beam Fatigue Test of Hot Mix Asphalt.	Yusuf Mehta	Allan Myers Materials	\$0.00	\$0.00
Conduct Beam Fatigue Test of Hot Mix Asphalt.	Yusuf Mehta	Allan Myers Materials	\$972.50	\$324.17
Evaluation of absorption of COVANTA aggregates	Yusuf Mehta	COVANTA	\$40,000.00	\$13,334.00

## Electrical & Computer Engineering

Title	Principle Investigator	Sponsor	Awarded Amount	Indirect Awarded
Noninvasive Skin Disease Detection System	Ben Wu	National Science Foundation (NSF)	\$50,000.00	\$5,000.00
Health Hack - Developing and testing a portable 3-D fluorescent microscope for quick dermatologic diagnosis	Ben Wu	Inspira Medical Centers Inc	\$10,000.00	\$0.00
Real-time Imaging Guidance for Curative Cancer Surgery	Ben Wu	New Jersey Health Foundation, Inc. (NJHF)	\$34,900.00	\$0.00
Rowan's Graduate Fellowship Prepares for the Modern Age of Artificial Intelligence (Rowan's Prepare.AI)	Ghulam Rasool	US Department of Education	\$398,000.00	\$0.00
EnaBLe - An Enhanced Bionic Limb	Ghulam Rasool	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00	\$0.00
Flying Fish Brewery Clinic	John Schmalzel	Flying Fish Brewing Company LLC	\$15,000.00	\$5,000.00
MemSat Development	Sangho Shin	Rutgers, The State University of New Jersey	\$25,000.00	\$0.00
E4SPA: Elearning Course for Sustainable Production Automation	Ying Tang	IEEE Robotics & Automation Society	\$10,000.00	\$0.00

## ExEEd

Title	Principle Investigator	Sponsor	Awarded Amount	Indirect Awarded
Promoting Faculty Professional Development and Community Building within Engineering Unleashed	Cheryl Bodnar	KERN Family Foundation	\$37,865.00	\$0.00
Exploring Entrepreneurial Mindset Through Reading The	Kaitlin Mallouk	KERN Family Foundation	\$724.00	\$0.00



# Engineering / SJTP Proposals

## Biomedical Engineering

Title	Principal Investigator	Sponsor	Requested Amount
Specific Energy Storage System for Small Mechanical robots:	Hamed Seyyedhosseinzadeh	National Science Foundation (NSF)	\$536,517.00
Specific Metamaterial for Mechanical Small Robot: Computational design	Hamed Seyyedhosseinzadeh	National Science Foundation (NSF)	\$696,590.00
Specific Energy Storage System for Small Mechanical robots:	Hamed Seyyedhosseinzadeh	National Science Foundation (NSF)	\$493,790.00
New Prosthetic Knee Simulator with 14-Degrees of Freedom for	Hamid Seyyedhosseinzadeh	National Science Foundation (NSF)	\$331,167.00
Mechanism of Bacteria adhesion to metallic devices: Multiscale Multiphysics simulation study	Hamid Seyyedhosseinzadeh	National Science Foundation (NSF)	\$434,882.00
Metallic Orthopedic Hip Implant with Stiffness as low as cortical bone	Hamid Seyyedhosseinzadeh	National Science Foundation (NSF)	\$635,009.00
Mechanism of Bacteria adhesion to medical devices: Multiscale Multiphysics simulation study	Hamid Seyyedhosseinzadeh	National Science Foundation (NSF)	\$510,992.00
Investigation of BPDE-DNA adducts by using nanopore	Jiwook Shim	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Optimizing Alpha-Hemolysin Nanopore Biosensor to Detect Changes in Promoter Methylation Status of MGMT Gene in Colorectal Cancer	Jiwook Shim	National Institutes of Health (NIH)	\$130,932.00
Nanopore-based investigation of BPDE-DNA adducts	Jiwook Shim	National Science Foundation (NSF)	\$499,978.00
Investigation of the Binding Status of Poly(C)-Binding Protein 4 in Cisplatin Resistant Cells using Solid-State Nanopore	Jiwook Shim	National Institutes of Health (NIH)	\$300,000.00
Alpha-hemolysin nanopore for selective detection of DNA methylation on promoter regions	Jiwook Shim	National Institutes of Health (NIH)	\$300,000.00
Fellowships in Biomaterials and Pharmaceutical Engineering	Mark Byrne	US Department of Education	\$990,000.00
Development and Characterization of Novel Silicone Hydrogel Lens	Mark Byrne	Gelest, Inc.	\$87,665.00
Harnessing neurovascular interaction to guide axon growth	Peter Galie	National Institutes of Health (NIH)	\$73,346.00
Proposal for REU Supplement to NSF1728239 CMMI	Peter Galie	National Science Foundation (NSF)	\$16,000.00
Microfiber-Enforced Hydrogels with Cartilage-Like Properties	Sebastian Vega	New Jersey Health Foundation, Inc. (NJHF)	\$30,000.00
Post-drawn polycaprolactone nanofibers for ACL replacement grafts	Vincent Beachley	The College of New Jersey (TCNJ)	\$215,967.00
REU Supplement for Summer Undergraduate Researchers	Vincent Beachley	National Science Foundation (NSF)	\$15,360.00

# Engineering / SJTP Proposals Continued

## Chemical Engineering

Title	Principal Investigator	Sponsor	Requested Amount
3D Printed Gradient Scaffolds for Repair of the Annulus Fibrosus of the Intervertebral Disc	Andrea Vernengo	National Institutes of Health (NIH)	\$328,042.00
New 3D Printed Gradient Scaffolds for Repair of the Annulus Fibrosus of the Intervertebral Disc	Andrea Vernengo	National Institutes of Health (NIH)	\$362,300.00
Decellularization of Intervertebral Disc Tissue using Pulsed Electric Field Exposures	Gary Thompson	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Novel Injectable Prodrug-Based Nanoreactor Hydrogels Toward Therapeutic Nanofactories	Iman Noshadi	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Engineering 3D printed bioelectronics as smart self-oxygenating tissue scaffold	Iman Noshadi	National Institutes of Health (NIH)	\$2,477,631.00
A Novel Approach to Increase Adhesion, Antimicrobial and Hemostatic Properties of Biomaterials for Use as Traumatic Injury Sealants	Iman Noshadi	National Institutes of Health (NIH)	\$858,000.00
Injectable, highly sticky, Antimicrobial, and Hemostatic Adhesive for Cornea Injury Repair	Iman Noshadi	National Science Foundation (NSF)	\$50,000.00
3D direct writing fabrication of biodegradable and biocompatible soft miniaturized supercapacitor	Iman Noshadi	National Science Foundation (NSF)	\$499,999.00
Engineering 3D printed bioelectronics as smart self-oxygenating tissue scaffold	Iman Noshadi	National Institutes of Health (NIH)	\$2,433,352.00
Metal Doped Mesoporous Materials for Sustainable CO <sub>2</sub> Capture and Conversion	Iman Noshadi	National Science Foundation (NSF)	\$289,797.00
Engineered bionic scaffold for online regulating and monitoring muscle cell behavior	Iman Noshadi	National Institutes of Health (NIH)	\$533,306.00
Engineering 3D printed sutureless cardiac patches	Iman Noshadi	National Institutes of Health (NIH)	\$1,792,365.00
Acquisition of a State-of-the-Art X-Ray Photoelectron Spectrometer for Research, Training, and Education	Iman Noshadi	National Science Foundation (NSF)	\$506,050.00
A Highly Sticky and Antimicrobial Adhesive for Cornea Injury Repair and Regeneration	Iman Noshadi	National Science Foundation (NSF)	\$247,938.00
Palmer International: FFS Agreement	Joseph Stanzione	Palmer International, Inc.	\$0.00
Advancing Structural Materials for Army Modernization Priorities Via Direct Write Approaches	Joseph Stanzione	US Department of Defense	\$12,778,466.00
FFS: Coperion Fee-for-Service Account	Joseph Stanzione	Coperin	\$0.00
Exploiting the Thermal Stability and Stiffness Inherent in Lignin Via a Novel Raw Materials to Versatile, Asymmetric Diols to Polymers Approach	Joseph Stanzione	Montana State University	\$333,334.00
Systems Innovation Engineering - Directed Energy - High Energy Coatings Project	Joseph Stanzione	Systems Innovation Engineering	\$40,000.00
RUI: Collaborative Research: Greener Processes for the Sustainable Production of Bio-Based Polyesters	Joseph Stanzione	National Science Foundation (NSF)	\$138,344.00
Systems analysis to evaluate cardiotoxic effects in survivors of pediatric cancers	Kirti Yenkie	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00

# Engineering / SJTP Proposals Continued

## Civil and Environmental Engineering

Title	Principal Investigator	Sponsor	Requested Amount
Microstructural effects on creep and fatigue in heterogeneous salt	Cheng Zhu	State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation	\$22,000.00
Evaluation of Coefficients Related to Runoff from Roadway Projects	Jagadish Torlapati	NJ Department of Transportation (NJDOT)	\$397,716.00
Characterizing Near-Surface Temperature Variation and Air Quality for Climate Health Impacts in Camden, NJ	Maryam Karimi	US Department of Environmental Protection Agency (USEPA)	\$25,001.00
Application of an Innovative Method in Determining the Impacts of Air Quality on Human Health in Urban Settings	Maryam Karimi	US Department of Environmental Protection Agency (USEPA)	\$25,001.00
Synthesis of National Best Practices on Pedestrian and Bicycle Design, Guidance and Technology Innovations	Mohammad Jalayer	Texas A&M Transportation	\$69,983.00
Wrong-Way Driving Solutions, Policy, and Guidance	Mohammad Jalayer	Auburn University	\$39,984.00
Bicycle and Pedestrian Resource Center	Mohammad Jalayer	Rutgers, The State University of New Jersey	\$59,970.00
Utility Pole Safety and Hazard Evaluation Approaches	Mohammad Jalayer	TRB (Transportation Research Board of The National Academies)	\$45,000.00
Developing Safety Performance Functions for Rural Two-Lane Highways that Incorporate Speed Measures	Mohammad Jalayer	TransDAC LLC	\$170,000.00
Marketing Research for the Quantifiable Benefits of Transit in New Jersey	Mohammad Jalayer	Rutgers, The State University of New Jersey	\$6,000.00
21st Century Transportation Research Library	Mohammad Jalayer	NJ Department of Transportation (NJDOT)	\$125,000.00
An Innovative Framework for High Resolution Quantitative Assessment of Structural Resilience for Communities under Multi-Hazard	Rouzbeh Nazari	National Institute of Standards and Technology	\$385,833.00
Level/Flow Sensor Deployment and Data Collection for Tottenville Shoreline Protection Project	Rouzbeh Nazari	Armand Corporation	\$65,470.00
NSF I-Corp: An innovative framework for high resolution quantitative assessment of flood resiliency	Rouzbeh Nazari	National Science Foundation (NSF)	\$50,000.00
Evaluation of Coefficients Related to Runoff from Roadway Projects	Rouzbeh Nazari	NJ Department of Transportation (NJDOT)	\$400,000.00
Forensic Investigation of Landfill Subsurface Thermal Events Using Non-Invasive In Situ and Remote Sensing Techniques: Demonstration and Training	Rouzbeh Nazari	US Department of Agriculture - Agricultural Research Service (USDA)	\$214,182.00
Detection of Poly- and Perfluoroalkyl Substances (PFASs) in New Jersey Rivers and Wastewater Treatment Plants	Sarah Bauer	NJ Water Resources Research Institute	\$20,000.00

# Engineering / SJTP Proposals Continued

## Civil and Environmental Engineering Continued

Title	Principal Investigator	Sponsor	Requested Amount
Evaluation of the Sustainability of the Hydrothermal Processing of Select Organic Waste Feedstocks: Accounting for Water Quality and Nutrient Recovery Impacts	Sarah Bauer	Johnson & Johnson	\$150,000.00
GANN: Developing Innovative Solution to Improving Transportation Infrastructure, Reducing Congestion,	Yusuf Mehta	US Department of Education	\$714,000.00

## CREATES

Title	Principal Investigator	Sponsor	Requested Amount
Long Term Pavement Performance (LTPP) Material Reference Library (MRL)	Ayman Ali	Armand Corporation	\$281,790.00
Advanced Pothole Repair	Ayman Ali	NJ Department of Transportation (NJDOT)	\$344,000.00
Energy Harvesting on New Jersey Roadways	Ayman Ali	NJ Department of Transportation (NJDOT)	\$350,000.00
Performance evaluation of asphalt mixtures placed on the Benjamin Franklin Orthopedic steel bridge deck	Ayman Ali	Delaware River Port Authority	\$119,643.00
Balanced Mixture Design Implementation Support	Ayman Ali	Wisconsin Department of Transportation	\$148,713.00
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	Ayman Ali	Florida Department of Transportation	\$249,512.00
CTL Core Testing	Caitlin Purdy	Construction Technology Laboratories, Inc.	\$0.00
Air Void check on Crisdel Road Cores	Caitlin Purdy	Crisdel Group, Inc.	\$0.00
Performance Testing Asphalt	Caitlin Purdy	Earle Companies	\$0.00
Evaluation of New York State mixes	Caitlin Purdy	Peckham Industries, Inc.	\$0.00
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	Caitlin Purdy	Paulsboro Refining Company, LLC	\$50,000.00
Microstructure-Enriched 3D Printed Tablets for Tunable Drug Release	Cheng Zhu	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
The Shaker Shield - An Innovative Technology for Inhabitant Protection in High Seismic Risk Areas	Cheng Zhu	National Science Foundation (NSF)	\$50,000.00
Active Earth science learning for K-12 students	Cheng Zhu	Christian and Mary Lindback Foundation	\$7,000.00

# Engineering / SJTP Proposals Continued

## CREATES (Continued)

Title	Principal Investigator	Sponsor	Requested Amount
Development of bio-stabilized wastes for subgrade insulation in cold regions	Cheng Zhu	TRB (Transportation Research Board of The National Academies)	\$149,811.00
Advanced Reinforced Concrete Materials for Transportation Infrastructures	Gilson Lomboy	NJ Department of Transportation (NJDOT)	\$349,731.00
Innovative Techniques and Materials for Preventing Concrete Shrinkage Cracking	Gilson Lomboy	NJ Department of Transportation (NJDOT)	\$299,642.00
Concrete Paver testing for PaverGuide	Ian Sennstrom	PaverGuide Inc.	\$18,968.00
Increasing the Awareness Regarding Wrong-Way Driving Crashes in New Jersey	Mohammad Jalayer	NJ Department of Transportation (NJDOT)	\$30,000.00
The Rutgers-New Brunswick ADS (Automated Driving System) Infrastructure-Vehicle-Integration (IVI) Demonstration Ground	Mohammad Jalayer	Rutgers, The State University of New Jersey	\$100,000.00
Determine Impact of E-pave product on Life of Hot mix Asphalt	Yusuf Mehta	ePAVE, LLC	\$80,000.00
National Consortium for Transportation Infrastructure, Durability and Resiliency	Yusuf Mehta	Louisiana State University	\$149,999.00
Comprehensive Assessment of the Induced Damage in Flexible Pavements Caused By	Yusuf Mehta	US Department of Transportation (USDOT)	\$298,882.00
NJEDA Innovation Challenge Opportunity	Yusuf Mehta	NJ Economic Development Authority (NJEDA)	\$40,000.00
Conduct Beam Fatigue Test of Hot Mix Asphalt.	Yusuf Mehta	Allan Myers Materials	\$0.00
2019 National Summer Transportation Institute (NSTI) Youth Program Statement of Work Announcement	Yusuf Mehta	NJ Department of Transportation (NJDOT)	\$59,798.00
Affordable Pavement Condition Monitoring	Yusuf Mehta	Facebook	\$40,001.00
Concept Development for the Route 322 By-Pass of Rowan University	Yusuf Mehta	AECOM	\$35,000.00
Innovative Technologies and Materials to Protect National Security Interests in the Arctic Region	Yusuf Mehta	US Department of Defense	\$3,400,000.00
Summer school experience at CREATES for Engineering Students from India.	Yusuf Mehta	CEPT University	\$5,100.00
Design and Performance of Open-Graded Friction Course (OGFC) Mixtures Containing Epoxy Asphalt	Yusuf Mehta	Florida Department of Transportation	\$239,929.00

# Engineering / SJTP Proposals Continued

## Electrical and Computer Engineering

Title	Principal Investigator	Sponsor	Requested Amount
Real-time Imaging Guidance for Curative Cancer Surgery	Ben Wu	New Jersey Health Foundation, Inc. (NJHF)	\$34,900.00
QLCI - CG Few Photon Quantum Communication Based on Optical Noise	Ben Wu	National Science Foundation (NSF)	\$96,231.00
Noninvasive Skin Disease Detection System	Ben Wu	National Science Foundation (NSF)	\$50,000.00
Health Hack - Developing and testing a portable 3-D fluorescent microscope for quick dermatologic diagnosis	Ben Wu	Inspira Medical Centers Inc	\$10,000.00
Searching Optimal Policies for Brain Tumor Treatment Using Reinforcement Learning	Ghulam Rasool	Google Inc	\$5,000.00
Gross Tumor Segmentation using Optimal Mass Transport Loss Function	Ghulam Rasool	Varian Medical Systems	\$124,616.25
EnaBLe - An Enhanced Bionic Limb	Ghulam Rasool	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Rowan's Graduate Fellowship Prepares for the Modern Age of Artificial Intelligence	Ghulam Rasool	US Department of Education	\$1,194,000.00
Self-Assessment and Real-Time Continual Learning on the Edge Devices	Ghulam Rasool	National Science Foundation (NSF)	\$499,890.00
Computer Vision for Smallholders: Better Livestock Management in the Cholistan Desert	Ghulam Rasool	Facebook	\$37,073.00
Bringing AI to Neuro-Oncology: Tumor Therapy and Surveillance	Ghulam Rasool	Google Inc	\$1,365,190.20
Flying Fish Brewery Clinic	John Schmalzel	Flying Fish Brewing Company LLC	\$15,000.00
Collaborative Research: Enhancing STEM Education with Machine Learning and Artificial Intelligence Applications: A University-Industry Cooperative Strategy	Ravi Ramachandran	National Science Foundation (NSF)	\$149,932.00
Keeping up with the genomes - Continual Learning of Metagenomic Data	Robi Polikar	National Science Foundation (NSF)	\$249,705.00
Security and Privacy in Adversarial Machine Learning	Robi Polikar	National Science Foundation (NSF)	\$244,673.00
Low-Cost and Reliable CubeSat Technologies	Sangho Shin	Rutgers, The State University of New Jersey	\$25,000.00
Memristive CMOS (mCMOS) Technology for Nano Memristive VLSI Manufacturing	Sangho Shin	National Science Foundation	\$343,448.00
Memristor-Based Highly-Sensitive and High-Speed Nanopore Instrumentation	Sangho Shin	National Science Foundation	\$356,129.00
E4SPA: Elearning Course for Sustainable Production Automation	Ying Tang	IEEE Robotics & Automation Society	\$10,000.00
Optimize Student Learning through Personalized Instruction and Need-aware Gaming (PING)	Ying Tang	National Science Foundation (NSF)	\$299,992.00

# Engineering / SJTP Proposals Continued

## Engineering Dean

Title	Principal Investigator	Sponsor	Requested Amount
Sekisui Task order 3	Anthony Lowman	Sekisui Chemical Co., Ltd.	\$80,000.00
2019 PSEG Proposal for AWE & RISE programs	Melanie Basantis	PSEG Nuclear, LLC	\$51,871.00
MRIMATH: A Software for Coordinates and Volumetrics in MRI Brain Imaging	Nidhal Bouaynaya	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
ShiRAS: Towards Safe and Reliable Autonomy in Sensor Driven Systems	Nidhal Bouaynaya	National Science Foundation (NSF)	\$299,592.00
Research experience for teachers: Rowan's research opportunities partner industries with community college educators to seize the data revolution	Nidhal Bouaynaya	National Science Foundation (NSF)	\$599,954.00
Machine Learning/Artificial Intelligence Examination of Helicopter Approaches	Nidhal Bouaynaya	Georgia Tech	\$10,500.00
INTERN Supplement: Engaging in STEM education with big data analytics and technologies: A Rowan-Cove initiative	Nidhal Bouaynaya	National Science Foundation (NSF)	\$38,250.00
ShiRAS: Towards Safe and Reliable Autonomy in Sensor-Driven Systems	Nidhal Bouaynaya	Lockheed Martin	\$68,917.00
Visualization and Analysis of Rotorcraft Safety within a CAVE Virtual Reality Environment	Nidhal Bouaynaya	Federal Aviation Administration (FAA)	\$87,054.00
Powering the undergraduate curriculum with smart grid and renewable energy systems	Nidhal Bouaynaya	National Science Foundation (NSF)	\$140,472.00

## ExEEd

Title	Principal Investigator	Sponsor	Requested Amount
Promoting Faculty Professional Development and Community Building	Cheryl Bodnar	KERN Family Foundation	\$37,865.00
Catalyzing Diversity: Scholarships and Educational Initiatives to Enhance the Southern New Jersey High Tech	Kaitlin Mallouk	National Science Foundation (NSF)	\$999,987.00
Research Initiation: The Impact of Engineering Education Guilds - Understanding Vision and Quantifying	Kaitlin Mallouk	National Science Foundation (NSF)	\$199,998.00
Exploring Entrepreneurial Mindset Through Reading The Culture Code	Kaitlin Mallouk	KERN Family Foundation	\$724.00
E-ETHICCS: Engineering Ethics Through High-Impact Collaborative/Competitive Scenarios	Scott Streiner	National Science Foundation (NSF)	\$182,226.00

# Engineering / SJTP Proposals Continued

## Mechanical Engineering

Title	Principal Investigator	Sponsor	Requested Amount
Vocal Fold In Situ Printing	Amir Miri Ramsheh	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Design, construction, and evaluation of implants for vocal fold alteration and reconstruction *Resubmission	Amir Miri Ramsheh	McGill University	\$747,644.00
Brain Tumor on Chip for Drug Testing	Amir Miri Ramsheh	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Bioprintable Composite Materials and Microfluidic Tools for Vocal Fold Restoration and Repair	Amir Miri Ramsheh	McGill University	\$568,169.00
Bioprinted Tumor-On-a-Chip: Personalized Medicine Model to Evaluate Chemotherapy	Amir Miri Ramsheh	National Institutes of Health (NIH)	\$375,000.00
Development of a Multifunctional Metal 3D Printer for Advancing Research and Education	Amir Miri Ramsheh	National Science Foundation (NSF)	\$1,529,490.00
Promoting Education in Green Transportation through the Formula Electric Clinic	Anu Osta	Constellation	\$50,000.00
Engineering Clinic Program: A platform for documenting the experiences and challenges of female undergraduate students and identify factors influencing their recruitment and retention.	Anu Osta	Engineering Information Foundation	\$15,000.00
Creating Educational Opportunities in STEM through Rowan University Engineering Clinic and Outreach programs	Anu Osta	American Honda Foundation	\$44,962.00
Cardiac State-of-Health Monitoring through ECG+SCG	Francis Haas	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
3D Printed Miniaturized Bio-Energy Storage Devices for Advanced Manufacturing of Bioelectronics	Nourouddin Sharifi	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Dual-Mode Tactile Sensor Arrays Inspired by Mechanoreceptors in Human Fingers	Wei Xue	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
RTML: Small: Collaborative: Doctor-In-The-Loop Heart Monitoring Via Real-Time Machine Learning	Wei Xue	National Science Foundation (NSF)	\$275,463.00



# College of Humanities & Social Sciences

## Awards & Proposals

College of Humanities and Social Sciences					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
<b>History</b>	5	\$ 403,097	1	\$ 13,021	\$ 125,000
<b>Law/Justice</b>	4	\$ 1,777,480	2	\$ 93,411	\$ 300,024
<b>Philosophy/Religion</b>	1	\$ 1,000	1	\$ -	\$ 1,000
<b>Hollybush Institute</b>	1	\$ 61,000	-	\$ -	\$ -
<b>Political Science &amp; Economics</b>	2	\$ 58,125	-	\$ -	\$ -
<b>Sociology &amp; Anthropology</b>	1	\$ 11,453	-	\$ -	\$ -
<b>Total</b>	<b>14</b>	<b>\$ 2,312,155</b>	<b>4</b>	<b>\$ 106,432</b>	<b>\$ 426,024</b>

### Awards

#### Philosophy/Religion

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Young Philosophers of South Jersey: Student Ethics Conference	Ellen Miller	Philosophy Learning and Teaching Organization (PLATO)	\$1,000.00	\$0.00

#### Law and Justice

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
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	Joel Capellan	National Institute of Justice (NIJ)	\$248,077.00	\$82,692.00
Promoting quantitative analysis capabilities and applied research on citizen security in Central America	Joel Capellan	John Jay College of Criminal Justice	\$51,947.00	\$10,719.00

#### History

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
The Megan Giordano Fellow in Public History	William Carrigan	Gloucester County Parks & Recreation	\$125,000.00	\$13,021.00

# College of Humanities & Social Sciences Proposals

## History

Title	Principal Investigator	Sponsor	Requested Amount
When the World Came to Glassboro: Conserving Critical Collections of the 1967 US-USSR Summit	James Heinzen	National Endowment for the Humanities (NEH)	\$228,096.00
At Home in the World: American Jewish Women Abroad, 1865-1940	Melissa Klapper	Herbert D. Katz Center for Advanced Judaic Studies	\$30,000.00
At Home in the World: American Jewish Women Abroad, 1865-1940	Melissa Klapper	American Council of Learned Societies (ACLS)	\$35,000.00
At Home in the World: American Jewish Women Abroad, 1865-1940	Melissa Klapper	National Endowment for the Humanities (NEH)	\$35,000.00
The Megan Giordano Fellow in Public History	William Carrigan	Gloucester County Parks & Recreation	\$75,001.00

## Hollybush Institute

Title	Principal Investigator	Sponsor	Requested Amount
Underground Entrepreneurs and the Soviet Shadow Economy under Late Socialism, 1950s-1980s	James Heinzen	American Council of Learned Societies (ACLS)	\$61,000.00

## Law and Justice

Title	Principal Investigator	Sponsor	Requested Amount
A Trauma Informed Approach to Patients: Improving the Detection of Trauma and Connection to Services	Jeanna Mastrocinque	Robert Wood Johnson Foundation	\$237,813.00
New Jersey Interdisciplinary Center on Gun Violence Research	Joel Capellan	The New Jersey Office of the Secretary of Higher Education	\$865,799.00
Mass Public Shootings and Armed Resistance: A Quasi-Experimental Test of the Good Guy with a Gun Thesis	Joel Capellan	National Institute of Justice (NIJ)	\$621,921.00
Promoting quantitative analysis capabilities and applied research on citizen security in Central America	Joel Capellan	John Jay College of Criminal Justice	\$51,947.00

## Philosophy/Religion

Title	Principal Investigator	Sponsor	Requested Amount
Young Philosophers of South Jersey: Student Ethics Conference	Ellen Miller	Philosophy Learning and Teaching Organization (PLATO)	\$1,000.00

## Political Science & Economics

Title	Principal Investigator	Sponsor	Requested Amount
Rowan University's Student Activism and the Politics of Now Initiative	Anne Pluta	American Political Science Association	\$23,125.00
Natural History and Intervention Decisions of Thoracic Aortic Aneurysm Revisited	Yupeng Li	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00

## Sociology & Anthropology

Title	Principal Investigator	Sponsor	Requested Amount
Museum of Anthropology at Rowan University (MARU) / Salem County Historical Society Digitization and Education Project	Jane Hill	Max and Victoria Dreyfus Foundation	\$11,453.00

# College of Performing Arts Awards & Proposals

College of Performing Arts					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
<b>Music</b>	2	\$ 27,500	1	\$ 1,852	\$ 25,000
<b>Dean's Office</b>	3	\$ 237,000	3	\$ -	\$ 20,225
<b>Total</b>	<b>5</b>	<b>\$ 264,500</b>	<b>4</b>	<b>\$ 1,852</b>	<b>\$ 45,225</b>

## Awards

### Music

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Les Paul Foundation Grant for Rowan Music Industry Summer Camp	Mathieu Gendreau	Les Paul Foundation	\$25,000.00	\$1,851.85

### Dean's Office

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Movement: A Celebration of Women in Choreography	Deborah Shapiro	NJ State Council on the Arts (NJSCA)	\$15,000.00	\$0.00
CPA Summer Internship	Deborah Shapiro	South Jersey Cultural Alliance	\$2,000.00	\$0.00
Mid Atlantic Touring Grant, The Crossing	Deborah Shapiro	Mid Atlantic Arts Foundation	\$3,225.00	\$0.00

## Proposals

### Music

Title	Principal Investigator	Sponsor	Requested Amount
2019 Summer Band Camp Grant	Joseph Higgins	OceanFirst Foundation	\$2,500.00
Les Paul Foundation Grant for Rowan Music Industry Summer Camp	Mathieu Gendreau	Les Paul Foundation	\$25,000.00

### Dean's Office

Title	Principal Investigator	Sponsor	Requested Amount
CPA Summer Internship	Deborah Shapiro	South Jersey Cultural Alliance	\$2,000.00
General Program Support for College of Performing Arts	Deborah Shapiro	NJ State Council on the Arts (NJSCA)	\$135,000.00
Pfleeger Concert Hall Stage Shell Replacement	Rick Dammers	Presser Foundation	\$100,000.00

# College of Science & Mathematics

## Awards & Proposals

College of Science & Mathematics / School of Health Professions					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
<b>Biological Sciences</b>	4	\$ 865,664	2	\$ 8,176	\$ 282,663
<b>Chemistry &amp; Biochemistry</b>	22	\$ 7,430,539	6	\$ 109,978	\$ 386,934
<b>Computer Science</b>	11	\$ 3,279,565	7	\$ 98,484	\$ 457,481
<b>Health &amp; Exercise Science</b>	9	\$ 619,899	4	\$ 214	\$ 9,950
<b>Molecular &amp; Cellular Bio-</b>	10	\$ 6,469,343	1	\$ 122,319	\$ 419,088
<b>Physics &amp; Astronomy</b>	14	\$ 4,795,651	8	\$ 117,749	\$ 433,245
<b>Psychology</b>	21	\$ 7,146,306	13	\$ 54,164	\$ 408,842
<b>Mathematics</b>	5	\$ 1,432,173	-	\$ -	\$ -
<b>Total</b>	<b>96</b>	<b>\$ 42,039,140</b>	<b>41</b>	<b>\$ 511,084</b>	<b>\$ 2,398,203</b>

### Awards

#### Biological Sciences

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Bridges to Baccalaureate: Cumberland County College	Alison Krufka	National Institutes of Health	\$243,163.00	\$8,176.00
Gut microbiome suppression of fungal honey bee brood	Svjetlana Vojvodic	Project Apis m.	\$39,500.00	\$0.00

#### Chemistry & Biochemistry

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Metallooxaziridines for the Synthesis of Nitrogen-Containing Three-Membered Heterocycles	Gustavo Moura-Letts	National Science Foundation	\$210,000.00	\$70,000.00
Portable Liquid Chromatograph for Point-of-Care Monitoring of Illicit Substances	James Grinias	Axceed Corporation	\$76,642.00	\$18,214.00
Restek Corporation Sponsored Research Agreement	James Grinias	Restek	\$30,000.00	\$10,000.00
Signaling mechanisms in VIBRIO Cholerae Parallel quorum sensing pathways	Lark Perez	Tufts University	\$29,292.00	\$9,764.00
Evaluation of Metal Materials in Polyethylene Glycol Solutions with Bases and Acids	Lei Yu	MSCI Techs	\$6,000.00	\$2,000.00
Analgesia without Addiction: Synthesis and Development of Highly Selective Novel Analgesics	Thomas Keck	New Jersey Health Foundation, Inc.	\$35,000.00	\$0.00

# College of Science & Mathematics

## Awards Continued

### Computer Science

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Early Dementia Detection	Ganesh Baliga	New Jersey Health Foundation, Inc. (NJHF)	\$49,513.00	\$0.00
ATD: New Approaches for Anomaly Detection in Spatiotemporal Data	Shen-Shyang Ho	National Science Foundation (NSF)	\$83,121.00	\$27,707.00
ATD: New Approaches for Anomaly Detection in Spatiotemporal Data	Shen-Shyang Ho	National Science Foundation (NSF)	\$18,000.00	\$6,000.00
Outreach to High Schools	Vahid Heydari	University of Alabama Huntsville	\$131,149.00	\$13,360.00
Outreach to High Schools	Vahid Heydari	University of Alabama Huntsville	\$80,698.00	\$19,751.00
Visualization and mining of metabolomics data	Vasil Hnatyshin	Bristol-Myers Squibb (BMS)	\$35,000.00	\$11,666.00
Visualization and mining of metabolomics data	Vasil Hnatyshin	Bristol-Myers Squibb (BMS)	\$60,000.00	\$20,000.00

### Health & Exercise Sciences

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Vitamin D deficiency and its relationship to injury, gender,	Douglas Mann	Athletic Trainers' Society of New Jersey	\$1,450.00	\$0.00
Monitoring exercise induced muscle fatigue in collegiate	Erin Pletcher	Athletic Trainers' Society of New Jersey	\$1,500.00	\$0.00
Examining the Impact of a Fresh Food Pharmacy Group Intervention for Individuals with Type 2 Diabetes in a Clinical	Nicole Vaughn	Cumberland/Salem/Gloucester Health Wellness Alliance, Inc.	\$5,000.00	\$0.00
Get Healthy Camden 2108 Blueprint Revision	Nicole Vaughn	United Way	\$2,000.00	\$214.20

### Molecular & Cellular Bioscience

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Elucidating the impact of the Npc1nmf164 mutation in the postnatal cerebellar development of a mouse model of Niemann-Pick Type C disease	Ileana Soto	National Institutes of Health	\$419,088.00	\$122,319.00

### Physics and Astronomy

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Johnson Matthey Materials Characterization	Jeffrey Hettinger	Johnson Matthey	\$20,815.00	\$6,938.33
Johnson Matthey Materials Characterization	Jeffrey Hettinger	Johnson Matthey	\$5,300.00	\$1,766.67
Johnson Matthey Materials Science Graduate Assistantship	Jeffrey Hettinger	Johnson Matthey	\$34,448.00	\$10,816.00
New Jersey Space Grant Consortium Training Grant - Physics	Karen Magee-Sauer	Rutgers, The State University of New Jersey	\$15,000.00	\$0.00
New Jersey Space Grant Consortium Training Grant - CSM	Karen Magee-Sauer	Rutgers, The State University of New Jersey	\$60,000.00	\$0.00

# College of Science & Mathematics

## Awards Continued

### Physics and Astronomy (continued)

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Collaborative Research: PIMS: Physics Inventory of Mathematical Sensemaking	Trevor Smith	National Science Foundation	\$46,553.00	\$15,518.00
Quantifying Understanding Hidden in Wrong Answers	Trevor Smith	National Science Foundation (NSF)	\$206,876.00	\$68,959.00
RUI: Collaborative Research: Understanding the protein-polysaccharide interactions of natural composite materials in one and two dimensions	Xiao Hu	National Science Foundation	\$44,253.00	\$13,751.00

### Psychology

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Identifying and Targeting Unique Physical Activity Determinants for Midlife Women	Danielle Arigo	National Institutes of Health (NIH)	\$86,422.00	\$6,402.00
Identifying and Targeting Unique Physical Activity Determinants for Midlife Women	Danielle Arigo	National Institutes of Health (NIH)	\$152,828.00	\$11,321.00
Optimizing a self-directed mobile mindfulness intervention for improving cardiorespiratory failure survivors' psychological distress	Jeffrey Greeson	Duke University	\$16,703.00	\$5,568.00
Mindfulness to Promote Healthy Aging in Older Adults with Mild Cognitive Impairment	Jeffrey Greeson	New Jersey Health Foundation, Inc. (NJHF)	\$31,591.00	\$0.00
Support Services for Children with Developmental Delays	MaryLou Kerwin	NJ Department of Children and Families	\$0.00	\$0.00
Provision of Intensive In-Home Individualized Behavioral Supports and Services	MaryLou Kerwin	New Jersey Department of Children and Families	\$0.00	\$0.00
Child Restraint Usability in Vehicles with Novel Seating Configurations	Patrice Tremoulet	The Children's Hospital of Philadelphia	\$17,814.00	\$0.00
Risk Assessment Using Noninvasive Measurements in Postoperative Pediatric Patients	Patrice Tremoulet	Etiometry, Inc.	\$13,773.00	\$4,591.00
Human Factors research and consulting for ECRI Institute	Patrice Tremoulet	ECRI Institute	\$4,335.00	\$894.52
Human Factors research and consulting for ECRI Institute	Patrice Tremoulet	ECRI Institute	\$3,570.00	\$736.67
Risk Assessment Using Noninvasive Measurements in Postoperative Pediatric Patients	Patrice Tremoulet	Etiometry, Inc.	\$61,194.00	\$20,398.00
Human Factors research and consulting for ECRI Institute	Patrice Tremoulet	ECRI Institute	\$20,612.00	\$4,253.00
Human Factors research and consulting for ECRI Institute	Patrice Tremoulet	ECRI Institute	\$0.00	\$0.00

# College of Science & Mathematics

## Proposals

### Biological Sciences

Title	Principal Investigator	Sponsor	Requested Amount
Characterizing the role of genomic motif elements in human disease	Stephanie Spielman	New Jersey Health Foundation, Inc. (NJHF)	\$31,000.00
Gut microbiome suppression of fungal honey bee brood pathogens	Svjetlana Vojvodic	Project Apis m.	\$39,500.00
Low-frequency electromagnetic field (EMF) exposure impacting honey bee physiology	Svjetlana Vojvodic	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Microbial regulation of individual and social behaviors in honey bees	Svjetlana Vojvodic	National Science Foundation (NSF)	\$760,164.00

### Computer Science

Title	Principal Investigator	Sponsor	Requested Amount
Graduate Assistance in Artificial Intelligence and Cybersecurity	Bo Sun	US Department of Education	\$497,500.00
CHS: Towards Equitable Distribution and Pricing of Work in Crowdwork	Chenxi Qiu	National Science Foundation (NSF)	\$54,821.00
FmitF: Collaborative Research: Track 1: Reasoning about Incentive Mechanisms for Sustainability in Human-Computing Systems	Chenxi Qiu	National Science Foundation (NSF)	\$177,941.00
Early Dementia Detection	Ganesh Baliga	New Jersey Health Foundation, Inc. (NJHF)	\$48,799.00
RU CALLS 4 CS: Rowan University Continuous Academic Living Learning Scholarships for Computer Science Undergraduates	Jennifer Kay	National Science Foundation (NSF)	\$999,190.00
CyberTraining Pilot Project: Integrating Core CyberInfrastructure Educational and Research Experiences in Undergraduate Curriculum	Ning Wang	National Science Foundation (NSF)	\$289,101.00
RTML: Small: Distributed Real-Time Memristive LSTM Network for Moving Devices	Shen-Shyang Ho	National Science Foundation (NSF)	\$484,519.00
Outreach to High Schools	Vahid Heydari	University of Alabama Huntsville	\$92,699.00
Scholarship for Service Program at Rowan University	Vahid Heydari	University of Alabama Huntsville	\$529,995.00
Improvements of EDM Software (PCO)	Vasil Hnatyshin	Bristol-Myers Squibb (BMS)	\$60,000.00
Automated Data Analysis (LDO Project)	Vasil Hnatyshin	Bristol-Myers Squibb (BMS)	\$45,000.00

### Chemistry and Biochemistry

Title	Principal Investigator	Sponsor	Requested Amount
Evaluate modified artemisinin and its derivatives for potential treatment of various forms of cancer	Amos Mugweru	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Joint Computational-Experimental Drug Discovery of Biased agonists to dopamine D2 receptor toward better anti-psychotic/ Parkinson's medications.	Chun Wu	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Novel Theoretical Methods for Designing All-Carbon Molecular Electronics from Petroleum Derivatives	Erik Hoy	American Chemical Society- Petroleum Research Fund (ACS PRF)	\$55,000.00

# College of Science & Mathematics

## Proposals Continued

### Chemistry and Biochemistry (continued)

Title	Principal Investigator	Sponsor	Requested Amount
Development of broad-spectrum antimicrobial peptides using non-natural amino acids	Gregory Caputo	New Jersey Health Foundation, Inc. (NJHF)	\$33,750.00
Development of novel antimicrobial peptides using non-natural amino acids to enhance efficacy and reduce resistance development	Gregory Caputo	British Society for Antimicrobial Chemotherapy	\$19,000.00
Novel Chemical Probes for Tissue Adhesives	Gustavo Moura-Letts	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Diazirine-Based Tissue Adhesives	Gustavo Moura-Letts	National Institutes of Health (NIH)	\$1,764,065.00
Mid-Scale RI-1: Implementation of a Center for Cannabinoids Research	Gustavo Moura-Letts	National Science Foundation (NSF)	\$12,994,979.00
Restek Corporation Sponsored Research Agreement	James Grinias	Restek	\$20,000.00
COLLABORATIVE: Applying Ion-Exchange Chromatography and Supercritical Fluid Chromatography to 2D-LC Analysis of Metabolites	James Grinias	National Science Foundation (NSF)	\$218,892.00
Using LC-MS/MS to Identify Dysregulated Neurotransmitters Involved with Neurological Disorders	James Grinias	New Jersey Health Foundation, Inc. (NJHF)	\$34,750.00
Development of a Chemical Technician Certification Program for Nontraditional Students in Two-Year Colleges	James Grinias	National Science Foundation (NSF)	\$541,660.00
Evaluation of Metal Materials in Polyethylene Glycol Solutions with Bases and Acids	Lei Yu	MSCI Techs	\$5,000.00
Acquisition of a Laser Ablation Inductively Coupled Plasma Mass Spectrometer for Multi-discipline Research and Education	Lei Yu	National Science Foundation (NSF)	\$364,975.00
Development of Strictinin and its Analogs as anti-TNBC Agents	Subash Jonnalagadda	University of the Sciences in Philadelphia	\$225,434.00
Analgesia without Addiction: Synthesis and Development of Highly Selective Novel Analgesics	Thomas Keck	New Jersey Health Foundation, Inc.	\$35,000.00
Mycobacterium vaccae immunization for cocaine addiction and relapse	Thomas Keck	National Institutes of Health	\$398,480.00
Probing Dopamine D4 Receptor and CB1 Cannabinoid Receptor Synergy: Dual Targets for Alcohol Abuse and Addiction?	Thomas Keck	PhRMA Foundation	\$100,000.00
Development of novel high-affinity and selective antagonist ligands for the dopamine D4 Receptor (D4R) subtype	Thomas Keck	High Point University	\$120,748.00
Low-Efficacy Dopamine D4 Receptor Partial Agonists for Cocaine Addiction	Thomas Keck	High Point University	\$80,500.00
Rowan University Application for 2019 Jean Dreyfus Lectureship for Undergraduate Institutions	Thomas Keck	The Camille & Henry Dreyfus Foundation, Inc.	\$18,500.00
RUI: Combining experiments and simulations to optimize biomolecular ionic liquids for protein stabilization	Timothy Vaden	National Science Foundation (NSF)	\$294,806.00



# College of Science & Mathematics

## Proposals Continued

### Health & Exercise Science

Title	Principal Investigator	Sponsor	Requested Amount
The Impact of Acute Resistance Exercise and Training Status on Intestinal Permeability in Young Healthy Individuals	Daniel Freidenreich	New Jersey Health Foundation, Inc. (NJHF)	\$34,494.00
The Impact of Acute Resistance Exercise and Training Status on Intestinal Permeability in Young Healthy Individuals	Daniel Freidenreich	National Strength and Conditioning Association	\$24,000.00
The impact of ketone supplements on gastrointestinal permeability and distress in healthy young adults	Daniel Freidenreich	American College of Sports Medicine	\$10,000.00
Monitoring exercise induced muscle fatigue in collegiate soccer athletes	Erin Pletcher	Athletic Trainers' Society of New Jersey	\$1,265.00
Developing sensitive outcome measures to evaluate various motor symptoms in multiple sclerosis	Mehmet Uygur	National Multiple Sclerosis Society	\$46,881.00
A novel approach to evaluate motor symptoms in multiple sclerosis	Mehmet Uygur	New Jersey Health Foundation, Inc. (NJHF)	\$33,110.00
Developing sensitive outcome measures for the assessment of motor function in people with multiple sclerosis	Mehmet Uygur	Sanofi-Aventis	\$11,375.00
Get Healthy Camden 2108 Blueprint Revision	Nicole Vaughn	United Way	\$2,000.00
CDC REACH Grant Vineland and Cumberland County 2018	Nicole Vaughn	YMCA	\$456,774.00

### Mathematics

Title	Principal Investigator	Sponsor	Requested Amount
Modeling of Heritability to Understand the Diversity of DNA Methylation Across Genomic Populations	Charalampos Papachristou	National Science Foundation (NSF)	\$110,999.00
Bridging Undergraduate Student Research in Mathematics Between Four-Year and Two-Year	Hieu Nguyen	Center for Undergraduate Research in Mathematics	\$18,900.00
New Jersey Data Science Corps - Conquering Big Data	Hieu Nguyen	National Science Foundation (NSF)	\$730,453.00
A genome-wide investigation of genetic variations in patients with preeclampsia using	Nasrine Bendjilali	National Institutes of Health (NIH)	\$364,287.00
Globally convergent numerical algorithms for inverse scattering problems using	Thanh Nguyen	National Science Foundation (NSF)	\$207,534.00

# College of Science & Mathematics

## Proposals Continued

### Molecular and Cellular Bioscience

Title	Principal Investigator	Sponsor	Requested Amount
Optimizing Engineered Fusion Proteins to Reprogram Cells	Benjamin Carone	New Jersey Health Foundation, Inc. (NJHF)	\$34,500.00
Directed Epigenetic Reprogramming	Benjamin Carone	National Institutes of Health	\$1,865,844.00
The role of CTCF in establishing and maintaining chromatin architecture during M. musculus spermatogenesis	Benjamin Carone	National Institutes of Health	\$459,184.00
Nectin-1 as a new target for checkpoint immunotherapy against breast cancer	Claude Krummenacher	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
HSV glycoprotein D impact on intercellular junctions	Claude Krummenacher	National Institutes of Health (NIH)	\$443,999.00
Structure-based design of inhibitors of HSV entry	Claude Krummenacher	National Institutes of Health (NIH)	\$449,693.00
Reverse micelle encapsulation as a strategy for enhancing the stability and transfer of biomolecules into living cells	Nathaniel Nucci	National Institutes of Health (NIH)	\$445,500.00
U-RISE at Rowan University	Nathaniel Nucci	National Institutes of Health	\$2,491,295.00
Improving Outcomes in Ovarian Cancer through a Combinatorial Approach of PD-1/PD-L1 Immunotherapy and Nanoparticle-Mediated Hyperthermia	Nicholas Whiting	Rivkin Center for Ovarian Cancer	\$75,000.00
Improving the Efficacy of Checkpoint Blockade Immunotherapy in Ovarian Cancer through Combination with Targeted Nanoparticle-Mediated Hyperthermia	Nicholas Whiting	Elsa U. Pardee Foundation	\$169,328.00

### Physics & Astronomy

Title	Principal Investigator	Sponsor	Requested Amount
RUI: Constraining Mars GCM Microphysics through Comparisons with Global Datasets	Dave Klassen	National Science Foundation (NSF)	\$301,647.00
Space Sciences at Rowan University	Dave Klassen	National Science Foundation (NSF)	\$1,250,509.00
High Performing Printed Electrodes for Neurostimulation Applications	Jeffrey Hettinger	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Recruitment, Retention, Mentorship, and Development of South Jersey High School Physics Teachers - Preparing All Students for STEM Careers	Karen Magee-Sauer	State Farm	\$11,850.00
2019 NASA NJSG Rowan University COURI CSM Summer Research Development Program	Karen Magee-Sauer	NJ Space Grant Consortium	\$60,000.00
2019 NASA NJSG COURI Rowan University Physics Summer Research Development Program for Undergraduates	Karen Magee-Sauer	NJ Space Grant Consortium	\$15,000.00
A Novel Approach for Manufacture of Quantum Dots for Biomedical Diagnostics	Nathaniel Nucci	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00

# College of Science & Mathematics

## Proposals Continued

### Physics & Astronomy (continued)

Title	Principal Investigator	Sponsor	Requested Amount
Experimental Dissection of Crowding Effects on Biomolecular Diffusion and Binding	Nathaniel Nucci	National Science Foundation (NSF)	\$660,182.00
Measurement and Control of Exchange Processes in Reverse Micelle Systems	Nathaniel Nucci	American Chemical Society-Petroleum Research Fund (ACS PRF)	\$70,000.00
Assessing the Role of Hydration Dynamics in Molecular Recognition	Nathaniel Nucci	National Institutes of Health (NIH)	\$1,676,250.00
Education, Demonstration, and Public Outreach using a Miniature MRI Scanner	Nicholas Whiting	Odessa & Henry Kahrs Trust	\$9,150.00
Fundamental Study of Asphaltene Nano-Aggregates using Parahydrogen-Enhanced NMR	Nicholas Whiting	American Chemical Society-Petroleum Research Fund (ACS PRF)	\$55,000.00
RUI: Better Solid-State Batteries Through New Fundamental Discoveries in Structure-Function Relationships for Borohydrides	Tabbatha Dobbins	National Science Foundation (NSF)	\$430,061.00
DMREF: Collaborative Research: Unraveling the Structure, Morphology and Ionic Conductivity Relationships of Innovative Bioinspired Polysaccharides-Protein Bio-electrolyte Membranes by Joint Experimental-Computational Approaches	Xiao Hu	National Science Foundation (NSF)	\$186,002.00

### Psychology

Title	Principal Investigator	Sponsor	Requested Amount
Using behavioral economics to increase buprenorphine maintenance among OUD patients enrolled in ED bridge program.	Bethany Raiff	National Institutes of Health (NIH)	\$2,871,958.00
How much and how often? An exploration of factors associated with young adult alcohol and e-cigarette use	Chelsie Young	New Jersey Health Foundation, Inc. (NJHF)	\$28,560.00
The Development and Validation of a Novel Paradigm for Assessing Sexual Violence Risk Perception in MSM	D.J. Angelone	National Institutes of Health (NIH)	\$410,977.00
Addressing a Missed Opportunity in Physical Activity Apps: Tailoring Social Comparisons to Meet Users' Individual and	Danielle Arigo	American Psychological Foundation	\$18,150.00
A Short Course in Big Data and Machine Learning Approaches for Applied	Dustin Fife	National Institutes of Health (NIH)	\$832,283.00
Geographic Variation Of Song And Abundance Of Atlantic Seaside Sparrow (Ammodramus Maritimus Maritimus).	Gerald Hough	Delaware Ornithological Society	\$1,600.00
Mindfulness to Promote Healthy Aging in Older Adults with Mild Cognitive Impairment	Jeffrey Greeson	New Jersey Health Foundation, Inc. (NJHF)	\$31,591.00

# College of Science & Mathematics

## Proposals Continued

**Psychology (continued)**

Title	Principal Investigator	Sponsor	Requested Amount
RU Mindful: Searching for the Signature of Mindfulness in Health & Well-Being	Jeffrey Greeson	National Institutes of Health (NIH)	\$429,242.00
Examining the Effectiveness of mHealth for the Treatment of Depression in Primary Care: A Feasibility Study	Jim Haugh	Psi Chi The International Honor Society in Psychology	\$1,500.00
Repetitive Thinking and Emotional Health in Adults with ASD	Katherine Gotham	National Institutes of Health (NIH)	\$1,452,446.00
Supporting Prevention in Relationships for Teams (SPoRT): A data-driven prevention intervention to promote healthy relationships for student-athletes	Meredith Joppa	National Collegiate Athletic Association	\$24,998.00
Dating Violence and Sexual Risk Prevention for Young Mothers	Meredith Joppa	National Institutes of Health	\$424,063.00
Healthy relationships for student-athletes: Preliminary efficacy of a data-driven prevention intervention	Meredith Joppa	National Collegiate Athletic Association (NCAA)	\$7,147.00
Trauma-informed Approach to Improve Healthy Decision Making in Adolescent Girls	Meredith Joppa	Drexel University	\$53,912.00
Risk Assessment Using Noninvasive Measurements in Postoperative Pediatric Patients	Patrice Tremoulet	Etiometry, Inc.	\$131,960.00
TrachAlarm B: Detecting and Alerting Caregivers to Tracheostomy Tube Decannulation	Patrice Tremoulet	Innovations Unlimited LLC	\$121,040.00
TrachAlarm a novel low-cost solution to accidental decannulation of tracheostomy tubes	Patrice Tremoulet	Innovations Unlimited LLC	\$120,188.00
Future of Work at US Manufacturing Plants	Patrice Tremoulet	National Science Foundation (NSF)	\$149,691.00
Therapeutic Service Delivery to Families and Agencies	Roberta Dihoff	The State of New Jersey	\$0.00
Expert services provided to public defender and law guardians.	Roberta Dihoff	The State of New Jersey	\$0.00
A Novel Exercise Intervention for Motor and Psychiatric Symptoms in Schizophrenia	Tom Dinzeo	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00

# Cooper Medical School of Rowan University Awards & Proposals

Cooper Medical School of Rowan University					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
<b>Biomedical Sciences</b>	17	\$ 2,704,323	6	\$ 198,375	\$ 632,243
<b>Dean's Office</b>	9	\$ 5,374,227	5	\$ 84,361	\$ 1,138,892
<b>Multicultural Affairs</b>	6	\$ 69,765	2	-	\$ 5,500
<b>Total</b>	<b>32</b>	<b>\$ 8,148,315</b>	<b>13</b>	<b>\$ 282,736</b>	<b>\$ 1,776,635</b>

## Awards

### Biomedical Sciences

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
CMSRU Clinic's Dental Health Initiative Pilot Program	Andrea Bottaro	Delta Dental of New Jersey Foundation	\$1,000.00	\$0.00
ANK-dependent ATP efflux causes calcium pyrophosphate deposition in cartilage	Charlene Williams	Medical College of Wisconsin	\$8,000.00	\$0.00
Mutations in Osteoprotegerin Cause Calcium Pyrophosphate Disease	Charlene Williams	Clement J. Zablocki Veterans Affairs Medical Center	\$18,800.00	\$0.00
Emerin regulation of nuclear architecture during cell invasion and metastasis	James Holaska	W.W. Smith Charitable Trust	\$105,238.00	\$9,235.00
Emerin regulation of molecular pathways: implications for muscle disease	James Holaska	National Institutes of Health	\$483,000.00	\$183,000.00
Clinical and Genetic Study of Prescription Opioid Addiction	Thomas Ferraro	Geisinger Medical Center	\$16,205.00	\$6,140.00

### Dean's Office

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Champions for Health Advancement through Mentoring and Primary Care	Annette Reboli	Health Resources and Services Administration (HRSA)	\$400,000.00	\$29,630.00
Educating future primary care providers for transforming health care systems	Annette Reboli	Health Resources and Services Administration (HRSA)	\$87,500.00	\$6,481.00
Educating future primary care providers for transforming health care systems	Annette Reboli	Health Resources and Services Administration (HRSA)	\$350,000.00	\$25,925.00
Post resuscitation PaCO <sub>2</sub> and neurological outcome after	Brian Roberts	National Institutes of Health	\$157,464.00	\$11,664.00
CMSRU provider's clinical support training	Kaitlan Baston	US Department of Health and Human Services	\$143,928.00	\$10,661.00

# Cooper Medical School of Rowan University Awards & Proposals

## Multicultural Affairs

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
MCAT preparation course- Premedical Urban Leaders Summer Enrichment (PULSE)	Jocelyn Mitchell-Williams	Dolfinger-McMahon Foundation	\$1,500.00	\$0.00
Formation of a Multi-Institutional Consortium for Victims of Domestic Violence & Sexual Assault: Medical Students as	Prasanth Romiyo	The New York Academy of Medicine	\$4,000.00	\$0.00

## Proposals

### Dean's Office

Title	Principal Investigator	Sponsor	Requested Amount
A Randomized Clinical Trial Comparing Clonidine versus Morphine Sulfate as Primary Therapy in Treatment of Neonatal Abstinence Syndrome and Investigating Pharmacogenetics as Predictors of Treatment Success	Alla Kushnir	National Institutes of Health (NIH)	\$398,447.00
Combination of Ketamine and Brain Stimulation (rTMS) for Treating Opioid Addiction	Basant Pradhan	National Institutes of Health (NIH)	\$482,969.00
Impact of clinical compassion on psychological trauma for patients with life-threatening respiratory emergencies: perceived threat, PTSD, and hospital readmission.	Brian Roberts	National Institutes of Health (NIH)	\$2,984,232.00
Hepatic ER stress contributes to morbidity and mortality after burn injury	Darren Boehning	Sunnybrook Health Science Centre	\$9,209.00
Brain Mechanisms of Adherence to Extended Release Naltrexone in Opioid Use	Igor Elman	University of Pennsylvania	\$392,404.00
A critical role of the rostromedial tegmental nucleus in aversion (pain) and reward (analgesia): its putative function in pain chronification	Igor Elman	Massachusetts General Hospital	\$89,516.00
Buprenorphine's Central Mechanism in Opioid Use Disorder	Igor Elman	Harvard University	\$125,325.00
CMSRU provider's clinical support training	Kaitlan Baston	US Department of Health and Human Services	\$449,984.00
Novel Markers of Acute Kidney Injury after Cardiac Surgery	Noud Van Helmond	National Institutes of Health (NIH)	\$442,141.00

### Multicultural Affairs

Title	Principal Investigator	Sponsor	Requested Amount
MCAT preparation course- Premedical Urban Leaders Summer Enrichment (PULSE) program	Jocelyn Mitchell-Williams	Dolfinger-McMahon Foundation	\$10,250.00
Educational Opportunity Fund - PULSE	Jocelyn Mitchell-Williams	The New Jersey Office of the Secretary of Higher Education	\$38,515.00
Leadership through Advocacy - Creation of an Open School Network for Domestic Violence and Sexual Abuse Victim Advocacy in the State of New Jersey	Noor Tell	Alpha Omega Alpha Honor Medical Society	\$9,000.00

# Cooper Medical School of Rowan University Proposals

## Multicultural Affairs

Title	Principal Investigator	Sponsor	Requested Amount
Perspectives from Survivors of Domestic Violence and Sexual Assault: Building Trust in the Medical Community	Prasanth Romiyo	The Arnold P. Gold Foundation	\$4,000.00
Formation of a Multi-Institutional Consortium for Victims of Domestic Violence & Sexual Assault: Medical	Prasanth Romiyo	The New York Academy of Medicine	\$4,000.00
Investigating Social Barriers to HIV Testing and Prevention of Mother-Child HIV transmission in a Community-based Clinic	Qianhui Gao	The Arnold P. Gold Foundation	\$4,000.00

## Biomedical Sciences

Title	Principal Investigator	Sponsor	Requested Amount
Emerin Regulation of Nuclear Structure in Invasive Breast Cancer Cells	Alexandra Liddane	NJ Department of Health	\$50,000.00
CMSRU Clinic's Dental Health Initiative Pilot Program	Andrea Bottaro	Delta Dental of New Jersey Foundation	\$1,000.00
Enhancing Outcome Reporting from Pandemic Clinical Trials	Christopher Jones	National Institutes of Health (NIH)	\$453,823.00
A critical role of the rostromedial tegmental nucleus in aversion (pain) and reward (analgesia): its putative function in pain chronification	Igor Elman	Harvard University	\$241,762.00
Emerin regulation of nuclear architecture during cell invasion and metastasis	James Holaska	W.W. Smith Charitable Trust	\$105,238.00
Altered chromatin organization and gene expression in EDMD mutants	James Holaska	Muscular Dystrophy Association	\$300,001.00
Targeting molecular pathways implicated in Emery-Dreifuss muscular dystrophy	James Holaska	Muscular Dystrophy Association	\$299,999.00
Development of Novel Bruton's Tyrosine Kinase Inhibitors for Treatment of Refractory and Relapsed Multiple Myeloma	Manoj Pandey	National Institutes of Health (NIH)	\$360,438.00
Development of novel small molecule inhibitor of STAT3 for obese breast cancer patients	Manoj Pandey	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Development of Novel dual inhibitor of CXCR4 and Mcl-1	Manoj Pandey	National Institutes of Health (NIH)	\$472,721.00
Development of Novel Bruton's Tyrosine Kinase Inhibitors for Treatment of Refractory and Relapsed Multiple Myeloma	Manoj Pandey	Elsa U. Pardee Foundation	\$105,809.00
Development of Novel ALDH inhibitor against refractory Multiple Myeloma	Manoj Pandey	Penn State University Hershey Medical Center	\$38,893.00
Targeting BTK and PD-1 in the treatment of relapsed and refractory Multiple Myeloma	Manoj Pandey	Leukemia Research Foundation	\$100,000.00
Efficacy of adipose derived stem cells to reduce the risk of anastomotic leak in ischemic colon anastomosis in a rat model	Michael Kwiatt	New Jersey Health Foundation, Inc. (NJHF)	\$34,950.00
Investigation of the role of HBSu acetylation in DNA binding and gene expression	Valerie Carabetta	New Jersey Health Foundation, Inc. (NJHF)	\$34,970.00
Topical Application of IgM Antibodies to Enhance Cutaneous Wound Healing	Zeus Antonello	New Jersey Health Foundation, Inc. (NJHF)	\$34,943.00
Molecular mechanisms of Noggin-mediated rhabdomyosarcoma resistance to treatment	Zeus Antonello	New Jersey Health Foundation, Inc. (NJHF)	\$34,776.00

# School of Osteopathic Medicine

## Awards & Proposals

School of Osteopathic Medicine					
	PROPOSALS		AWARDS		
	#	Amount	#	Indirects	Total Amount
<b>CARES</b>	6	\$ 4,656,889	2	\$ 8,510	\$ 4,352,126
<b>Cell Biology &amp; Neuroscience</b>	25	\$ 10,904,906	12	\$ 575,517	\$ 2,109,296
<b>Developmental Disabilities</b>	6	\$ 1,313,580	2	\$ -	\$ 471,400
<b>Family Medicine</b>	4	\$ 1,624,409	3	\$ 34,168	\$ 196,657
<b>Graduate Medical Education</b>	4	\$ 54,660	1	\$ -	\$ 5,244
<b>Medicine</b>	2	\$ 205,000	1	\$ -	\$ 175,000
<b>Molecular Biology</b>	18	\$ 11,095,760	7	\$ 413,636	\$ 1,177,727
<b>NJISA</b>	10	\$ 11,187,300	7	\$ 454,589	\$ 2,021,946
<b>Pathology</b>	1	\$ 246,884	1	\$ 4,862	\$ 308,605
<b>Psychiatry</b>	2	\$ 447,890	1	\$ -	\$ 197,890
<b>Rehabilitation Medicine</b>	10	\$ 8,683,854	9	\$ 412,091	\$ 4,509,960
<b>Dean's Office</b>	2	\$ 7,691,000	2	\$ 609,884	\$ 8,941,000
<b>SOM Academic Affairs</b>	3	\$ 84,394	4	\$ 21,336	\$ 561,436
<b>OB/GYN</b>	2	\$ 2,423,188	-	\$ -	\$ -
<b>Student Health Services</b>	1	\$ 8,000	-	\$ -	\$ -
<b>Surgery</b>	1	\$ 14,000	-	\$ -	\$ -
<b>Total</b>	<b>97</b>	<b>\$ 60,641,714</b>	<b>52</b>	<b>\$ 2,534,593</b>	<b>\$ 25,028,287</b>

### Awards

#### CARES Institute

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Changing the Paradigm: CSA as a Preventable Public Health Problem	Esther Deblinger	Johns Hopkins Bloomberg School of	\$22,461.00	\$8,510.00
CARES Institute DCP&P Contract FY19	Martin Finkel	NJ Department of Children and Families	\$4,329,665.00	\$0.00

#### Developmental Disabilities

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Children's Mental Health-Intellectual Disability Outpatient	Wendy Aita	New Jersey Department of Children and Families	\$221,400.00	\$0.00
Adult Mental Health - Intellectual Disability Outpatient Care (RowanSOM Integrated Special Needs Center)	Wendy Aita	NJ Department of Human Services	\$250,000.00	\$0.00



# School of Osteopathic Medicine

## Awards Continued

### Cell Biology

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Physiological Genomics of Central Vasopressin Circuits Across Gender	Benjamin Rood	National Institutes of Health (NIH)	\$156,697.00	\$11,607.00
Functional Neuroanatomy Underlying Psychosocial Stress-Induced Cocaine Seeking	Daniel Manvich	National Institutes of Health (NIH)	\$248,999.00	\$68,361.00
Antimicrobial Mechanisms of Specialized Proresolving Mediators	Kingsley Yin	National Institutes of Health	\$402,500.00	\$152,500.00
Translational rescue mechanisms in eukaryotes	Natalia Shcherbik	National Institutes of Health	\$314,025.00	\$116,525.00
Gene Therapy of Canavan Disease	Paola Leone	Pfizer Inc.	\$578,130.68	\$156,137.48
Structural Dynamics of RNAP-Promoter Complex in Late Transcription Initiation	Sergei Borukhov	University of California, Los Angeles	\$112,700.00	\$42,700.00
To Sleep or Not to Sleep - Are Calcium Sensor Proteins NCALD and S100B Part of the Answer?	Venkateswar Venkataraman	Osteopathic Heritage Foundation	\$25,000.00	\$0.00
Effects of Repetitive Mild TBI on Flexible Attention and the Norepinephrine Transmitter System	Barry Waterhouse	New Jersey Commission on Brain Injury Research	\$177,687.00	\$27,687.00
2019 Summer Medical Research Fellowship Program (SMRFP)	Carl Hock	New Jersey Health Foundation, Inc. (NJHF)	\$25,000.00	\$0.00
Translational rescue mechanisms in eukaryotes	Natalia Shcherbik	National Institutes of Health	\$38,357.00	\$0.00
Award for NJ Health Foundation Excellence in Research	Paola Leone	NJ Department of Health	\$1,000.00	\$0.00
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	Sean McBride	FRAXA Research Foundation	\$29,200.00	\$0.00

### Graduate Medical Education

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Annual Conference	Shauna Goetz	Stryker	\$5,244.00	\$0.00

# School of Osteopathic Medicine

## Awards Continued

### Family Medicine

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Model State-Supported Area Health Education Centers	Joshua Coren	Health Resources and Services Administration	\$74,407.00	\$5,511.63
Prevention of Opioid Misuse in Women: Office on Women's Health Prevention Awards	Joshua Coren	US Department of Human Services	\$100,000.00	\$27,007.00
2017 AHEC Program	Joshua Coren	Health Resources and Services Administration	\$22,250.00	\$1,649.00

### Medicine

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Shared services agreement of Counties of Gloucester and Rowan University SOM for the services of Rowan Integrated Special Needs (RISN) Center Licensed Clinical Social Worker	Jennifer LeComte	County of Gloucester	\$175,000.00	\$0.00

### Molecular Biology

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Targeting PDPN to combat oral cancer - new synergies for an ancient approach to a modern target.	Gary Goldberg	Osteopathic Heritage Foundation	\$25,000.00	\$0.00
Targeting podoplanin to prevent and treat oral cancer	Gary Goldberg	National Institutes of Health (NIH)	\$479,927.00	\$181,836.00
Transcriptional Control of Autophagy and Aging	Katrina Cooper	Osteopathic Heritage Foundation	\$25,000.00	\$0.00
Determining the Safety of Silver Oxide-Coated Biomaterials In Vivo	Renee Demarest	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00	\$0.00
Regulation of the Gli protein TRA-1 by co-factors	Ronald Ellis	National Institutes of Health	\$305,900.00	\$115,900.00
Dissecting the origins of a complex reproductive trait: nematode self fertility	Ronald Ellis	National Institutes of Health	\$305,900.00	\$115,900.00
Excellence in Teaching Award	Susan Muller-Weeks	New Jersey Health Foundation, Inc. (NJHF)	\$1,000.00	\$0.00

# School of Osteopathic Medicine Awards Continued

## NJ Institute for Successful Aging

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
New Jersey Geriatric Workforce Enhancement Program	Anita Chopra	Health Resources and Services Administration	\$750,000.00	\$54,444.00
Effects of Hurricane Sandy on Functional Limitation Trajectories	Rachel Pruchno	National Institutes of Health	\$509,761.00	\$149,456.00
Blood-based biomarkers for early-stage Alzheimer's disease	Robert Nagele	National Institutes of Health	\$652,046.00	\$245,793.00
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	Sean McBride	Roche Pharmaceuticals, Inc.	\$0.00	\$0.00
New Jersey Geriatrics Workforce Enhancement Program (NJGWEP) - Opioid Supplemental	Anita Chopra	Health Resources and Services Administration (HRSA)	\$31,825.00	\$2,357.00
Inspired- A Unique Exploration of the Human Brain and Memory	Lisa Bodenheimer	Wakefern Foundation	\$25,000.00	\$0.00
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	Sean McBride	Amylyx Pharmaceutical Corp.	\$53,314.00	\$2,539.00

## Pathology

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
A Comprehensive Center for Huntington Disease	Michael McCormack	NJ Department of Health	\$308,605.00	\$4,862.00

## Psychiatry

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
Psychological Services For Abused & Neglected Children - 19BYDS	Wendy Aita	New Jersey Department of Children and Families (NJDCF)	\$197,890.00	\$0.00

## Dean's Office

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
FY19 EOF - Graduate Biomedical	Linda Boyd	The New Jersey Office of the Secretary of Higher Education (OSHE)	\$22,250.00	\$0.00
FY20 - IES Staffing, Consultanting, RFP Support (15 Months)	Vincent DeRisio	NJ Department of Human Services	\$8,918,750.00	\$609,883.80

# School of Osteopathic Medicine

## Awards Continued

### Family Medicine

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
New Jersey Collaborative to Improve Access to Overdose	Richard Jermyn	NJ Department of Human Services	\$184,668.00	\$45,823.00
New Jersey Collaborative to Improve Access to Overdose	Richard Jermyn	NJ Department of Human Services	\$20,833.00	\$5,626.00
Prospective, Multicenter, Cohort Study of the Cost-Effectiveness of Osteopathic Manipulative Treatment for Chronic Low Back	Richard Jermyn	American Osteopathic Association (AOA)	\$340,468.00	\$0.00
Prospective, Multicenter, Cohort Study of the Cost-Effectiveness of Osteopathic Manipulative Treatment for Chronic Low Back	Richard Jermyn	American Osteopathic Association (AOA)	(\$91,313.00)	\$0.00
Southern New Jersey Medication Assisted Treatment Center of NJ Opioid Medical Education Program	Richard Jermyn	NJ Department of Human Services	\$2,000,000.00	\$181,818.00
DATA Waiver Training Program	Richard Jermyn	NJ Department of Health	\$941,582.31	\$69,746.84
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	Richard Jermyn	Revance Therapeutics, Inc.	\$78,722.00	\$18,167.00
OPEND-PORT to Life	Richard Jermyn	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00	\$0.00

### SOM Academic Affairs

Title	Principal Investigator	Sponsor	Awarded Amount	Indirect Awarded
RowanSOM Pre-Matriculation Program	Linda Boyd	NJ Department of Education (NJDE)	\$1,000.00	\$0.00
National HCOP Academy to Support Careers in Osteopathic Medicine	Linda Boyd	Health Resources and Services Administration (HRSA)	\$30,000.00	\$0.00
National HCOP Academy to Support Careers in Osteopathic Medicine	Linda Boyd	Health Resources and Services Administration (HRSA)	\$525,436.00	\$21,336.00
Use of hybrid simulation to enhance clinical skills training in medical students	Nils Brolis	American Association of Colleges of Osteopathic Medicine (AACOM)	\$5,000.00	\$0.00

# School of Osteopathic Medicine Proposals

## Cell Biology

Title	Project Investigator	Sponsor	Requested Amount
Neurophysiological and behavioral consequences of psychostimulant binging	Barry Waterhouse	National Institutes of Health (NIH)	\$1,991,150.00
TBI, flexible attention and the locus coeruleus-norepinephrine transmitter system	Barry Waterhouse	National Institutes of Health (NIH)	\$442,750.00
Effects of Repetitive Mild TBI on Flexible Attention and the Norepinephrine Transmitter System	Barry Waterhouse	New Jersey Commission on Brain Injury Research	\$533,062.00
TBI, flexible attention and the locus coeruleus-norepinephrine transmitter system	Barry Waterhouse	National Institutes of Health (NIH)	\$430,922.00
Physiological Genomics of Central Vasopressin Circuits Across Gender	Benjamin Rood	National Institutes of Health (NIH)	\$156,697.00
Using mouse genetics to accelerate research of social behavior mechanisms	Benjamin Rood	New Jersey Health Foundation, Inc. (NJHF)	\$23,750.00
2019 Summer Medical Research Fellowship Program (SMRFP)	Carl Hock	New Jersey Health Foundation, Inc. (NJHF)	\$25,000.00
Impact of stress-induced circuit-specific changes in locus coeruleus opioid signaling on anxiety-like behavior	Daniel Chandler	National Institutes of Health (NIH)	\$2,012,500.00
Neurobiological and behavioral predictors of psychosocial stress-induced opioid seeking	Daniel Manvich	New Jersey Health Foundation, Inc. (NJHF)	\$27,725.00
Catecholamine modulation of early visual sensory signal processing and performance of a signal detection task.	David Devilbiss	National Institutes of Health (NIH)	\$442,750.00
Electroencephalographic (EEG) Patterns and Catecholamine Efflux in Prefrontal Cortex Changes Following Repetitive Mild Traumatic Brain Injury	David Devilbiss	New Jersey Commission on Brain Injury Research	\$180,000.00
Catecholamine Dysfunction in mild Traumatic Brain Injury	David Devilbiss	Osteopathic Heritage Foundation	\$25,000.00
The ribosome as a target and biomarker of oxidative injury	Dimitri Pestov	National Institutes of Health (NIH)	\$442,750.00
Nucleolar signaling in cancer	Dimitri Pestov	National Institutes of Health (NIH)	\$161,000.00
The role of poly(ADP-ribose) glycohydrolase in tumorigenesis	Dmitriy Markov	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Next Generation Oligodendrocyte Targeted Gene Therapy For Canavan	Paola Leone	National Institutes of Health (NIH)	\$1,207,500.00
Gene Therapy for Amyotrophic Lateral Sclerosis Targeting Dysregulated Energy Metabolism	Paola Leone	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
2017-2018 Excellence in Research Award	Paola Leone	New Jersey Health Foundation, Inc. (NJHF)	\$1,000.00

# School of Osteopathic Medicine Proposals

## Cell Biology (continued)

Title	Project Investigator	Sponsor	Requested Amount
Next generation Oligodendrocyte Targeted Gene Therapy for Canavan Disease	Paola Leone	National Institutes of Health (NIH)	\$1,207,500.00
Translating Novel Treatments for Fragile X Syndrome from the Fly to the Mouse Model	Sean McBride	FRAXA Research Foundation	\$45,000.00
Identifying novel therapies in a Drosophila model of NF1 and testing efficacy in the fly and mouse models to develop targeted treatments	Sean McBride	US Department of Defense	\$654,350.00
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	Sean McBride	FRAXA Research Foundation	\$50,000.00
To Sleep or Not to Sleep - Are Calcium Sensor Proteins NCALD and S100B Part of the Answer?	Venkateswar Venkataraman	Osteopathic Heritage Foundation	\$25,000.00
S100B is a viable target for treating Clostridioides difficile infection through enteric glial cells	Venkateswar Venkataraman	Osteopathic Heritage Foundation	\$25,000.00
Characterization of the Role of NCALD in Breast Cancer	Venkateswar Venkataraman	US Department of Defense	\$724,500.00

## CARES Institute

Title	Project Investigator	Sponsor	Requested Amount
Changing the Paradigm: CSA as a Preventable Public Health Problem	Esther Deblinger	Johns Hopkins Bloomberg School of Public Health	\$112,752.00
AGH Center for Traumatic Stress in Children and Adolescents	Esther Deblinger	Allegheny-Singer Research Institute	\$7,367.00
Child Abuse Research Education & Service (CARES) Institute Trauma-Focused Cognitive Behavioral Therapy (TF-CBT) Research Project	Esther Deblinger	Help For Children	\$69,937.00
Child Abuse Research Education & Service (CARES) Institute Conference	Esther Deblinger	Help For Children	\$69,934.00
Child Abuse Research Education & Service (CARES) Institute Trauma-Focused Cognitive Behavioral Therapy (TF-CBT) Research Project	Esther Deblinger	Help For Children	\$67,234.00
CARES Institute DCP&P Contract FY20	Martin Finkel	NJ Department of Children and Families	\$4,329,665.00

### Developmental Disabilities

Title	Project Investigator	Sponsor	Requested Amount
Providing Integrated Primary and Behavioral Health Care for Patients with Special Needs	Jennifer LeComte	The Nicholson Foundation	\$200,000.00
RowanSOM Curriculum Initiative in Developmental Medicine	Wendy Aita	American Academy of Developmental Medicine and Dentistry	\$25,000.00
Children's Mental Health- Intellectual Disability Outpatient Care	Wendy Aita	New Jersey Department of Children and Families (NJDCF)	\$221,400.00
Psychological Services for Abused and Neglected Children and Their Families	Wendy Aita	New Jersey Department of Children and Families (NJDCF)	\$395,780.00
Children's Mental Health - Intellectual Disability Outpatient Care through RISN Center	Wendy Aita	New Jersey Department of Children and Families (NJDCF)	\$221,400.00
Adult Mental Health - Intellectual Disability Outpatient Care (RowanSOM Integrated Special Needs Center)	Wendy Aita	NJ Department of Human Services	\$250,000.00

### Family Medicine

Title	Project Investigator	Sponsor	Requested Amount
Measuring effectiveness of a smartphone based behavioral treatment program (SmartBT) to improve lifestyle in obese and overweight patients with metabolic disorders - a pilot randomized control trial	Adarsh Gupta	American Osteopathic Association (AOA)	\$150,000.00
New Jersey Integrated Behavioral Health and Primary Care Team Training Program	Alison Mancuso	Health Resources and Services Administration	\$1,250,002.00
Model State-Supported Area Health Education Centers	Joshua Coren	Health Resources and Services Administration	\$74,407.00
Medical Inspirational Reading and Active Contemplation Leading to Empathy (MIRACLE) Study	Meagan Vermeulen	American Osteopathic Association (AOA)	\$150,000.00

### Graduate Medical Education

Title	Project Investigator	Sponsor	Requested Amount
Cardiology Fellowship	Joanne Kaiser Smith	St Jude Medical Foundation	\$45,210.00
Interscalene Brachial Plexus Blockade Utilizing Liposomal Bupivacaine: Opioid Consumption Patterns Following Arthroscopic Shoulder Surgery - OSET Conference Travel Grant	Shauna Goetz	Arthrex	\$630.00
Advanced Upper Extremity Trauma and Flap Course - AO Trauma	Shauna Goetz	Depuy-Synthes	\$2,346.00
Annual Conference	Shauna Goetz	Stryker	\$6,474.00

# School of Osteopathic Medicine

## Proposals Continued

### Molecular Biology

Title	Project Investigator	Sponsor	Requested Amount
A Fluorescent Probe to Explore a Novel Drug Binding Site on SIRT2 Deacetylase	Brian Weiser	New Jersey Health Foundation, Inc. (NJHF)	\$31,000.00
SIRT2 Interactions with Acyl Chains in Myelin	Brian Weiser	National Institutes of Health (NIH)	\$442,750.00
SIRT2-Acyl Chain Interactions in Myelin	Brian Weiser	United Leukodystrophy Foundation	\$33,000.00
Covalent Assembly of DNA Replication & Repair Machinery	Brian Weiser	Alexandrine and Alexander L. Sinsheimer Foundation	\$200,000.00
RPA-Directed DNA Repair	Brian Weiser	Osteopathic Heritage Foundation	\$25,000.00
RPA-Directed DNA Repair Mechanisms	Brian Weiser	National Institutes of Health (NIH)	\$1,610,000.00
Targeting podoplanin to prevent and treat oral cancer	Gary Goldberg	National Institutes of Health (NIH)	\$32,992.00
Targeting PDPN to combat oral cancer - new synergies for an ancient approach to a modern target.	Gary Goldberg	Osteopathic Heritage Foundation	\$25,000.00
The Cdk8 kinase module and the Great Wall kinase together regulate cell fate decisions	Katrina Cooper	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Cross-talk between autophagy and cell death pathways	Katrina Cooper	National Institutes of Health (NIH)	\$1,811,250.00
Transcriptional Control of Autophagy and Aging	Katrina Cooper	Osteopathic Heritage Foundation	\$25,000.00
The role of cyclin C during proteaphgy	Katrina Cooper	Osteopathic Heritage Foundation	\$25,000.00
Manipulating Apoptotic Thresholds in Cancer	Randy Strich	National Institutes of Health (NIH)	\$2,296,018.00
Stress Regulated Mitochondrial Dynamics	Randy Strich	National Institutes of Health (NIH)	\$2,012,500.00
Genetic complexity of the MED13L syndrome spectrum	Randy Strich	National Institutes of Health (NIH)	\$442,750.00
Determining the Safety of Silver Oxide-Coated Biomaterials In Vivo	Renee Demarest	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
dUTP hydrolysis - Understanding the function of dUTPase isoforms in normal and abnormal cell growth and development	Sal Caradonna	National Institutes of Health (NIH)	\$2,012,500.00
Muller-Weeks Excellence in Teaching Award	Susan Muller-Weeks	New Jersey Health Foundation, Inc. (NJHF)	\$1,000.00



# School of Osteopathic Medicine

## Proposals Continued

### Medicine

Title	Project Investigator	Sponsor	Requested Amount
Shared services agreement of Counties of Gloucester and Rowan University SOM for the services of Rowan Integrated Special Needs (RISN) Center Licensed Clinical Social Worker	Jennifer LeComte	County of Gloucester	\$175,000.00
Direct Care Training Program for Physicians in the Rowan Integrated Special Needs (RISN) Center	Jennifer LeComte	WITH Foundation	\$30,000.00

<b>NJ Institute for Successful Aging</b>			
Title	Project Investigator	Sponsor	Requested Amount
New Jersey Geriatric Workforce Enhancement Program	Anita Chopra	Health Resources and Services Administration (HRSA)	\$3,750,000.00
New Jersey Geriatrics Workforce Enhancement Program (NJGWEP) - Opioid Supplemental Funding	Anita Chopra	Health Resources and Services Administration (HRSA)	\$31,825.00
Childhood Adversity and Cognitive Impairment in Later Life: A comparative study	Lisa Bodenheimer	Osteopathic Heritage Foundation	\$7,500.00
Cholinergic receptor role in brain amyloid deposition	Nimish Acharya	Alzheimer's Association	\$149,820.00
Silencing GFAP and S100B: A neuroprotective therapeutic strategy for brain injury and neurodegenerative diseases.	Nimish Acharya	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
Use of Autoantibody Profiles to Clarify the Relationship between Postoperative Delirium and Alzheimer's Disease and Related Dementias	Robert Nagele	Johns Hopkins University	\$2,029,610.00
Imaging the alpha7 nicotinic acetylcholine receptor in mild cognitive impairment	Robert Nagele	Johns Hopkins University	\$459,546.00
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	Sean McBride	Roche Pharmaceuticals, Inc.	\$826,690.00
A Randomized Placebo-Controlled Study of Metformin Safety and Effects on Cognition, Anxiety, Sleep, etc.	Sean McBride	US Department of Defense	\$3,843,995.00
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	Sean McBride	Amylyx Pharmaceutical Corp.	\$53,314.00

# School of Osteopathic Medicine

## Proposals Continued

### OBGYN

Title	Project Investigator	Sponsor	Requested Amount
Ethnic differences in HDL dysfunction during pregnancy: Their association with preterm delivery	Xinhua Chen	National Institutes of Health (NIH)	\$1,989,588.00
Is impaired HDL function associated with preterm delivery?	Xinhua Chen	National Institutes of Health (NIH)	\$433,600.00

### Pathology

Title	Project Investigator	Sponsor	Requested Amount
A Comprehensive Center for Huntington Disease	Michael McCormack	NJ Department of Health	\$246,844.00

### Psychiatry

Title	Project Investigator	Sponsor	Requested Amount
Total Health Integrated Navigation (WHIN) Program	Stephen Scheinthal	NJ Department of Health	\$250,000.00
Psychological Services For Abused & Neglected Children - 19BYDS	Wendy Aita	New Jersey Department of Children and Families (NJDCF)	\$197,890.00

### Dean's Office

Title	Project Investigator	Sponsor	Requested Amount
FY19 EOF - Graduate Biomedical	Linda Boyd	The New Jersey Office of the Secretary of Higher	\$22,250.00
FY20 - IES Staffing, Consultanting, RFP Support (15 Months)	Vincent DeRisio	NJ Department of Human Services	\$7,668,750.00

### SOM Academic Affairs

Title	Project Investigator	Sponsor	Requested Amount
RowanSOM Pre-Matriculation Program	Linda Boyd	NJ Department of Education (NJDE)	\$1,000.00
Rowan SOM Summer Pre Medicine & Research Program (PREP)	Linda Boyd	NJ Department of Education (NJDE)	\$78,394.00
Use of hybrid simulation to enhance clinical skills training in medical students	Nils Brolis	American Association of Colleges of Osteopathic Medicine (AACOM)	\$5,000.00

### Student Health Services

Title	Project Investigator	Sponsor	Requested Amount
Breath Easy Rowan University	Scott Woodside	NJ Prevention Network	\$8,000.00

# School of Osteopathic Medicine

## Proposals Continued

<b>Rehabilitation Medicine</b>			
Title	Project Investigator	Sponsor	Requested Amount
How OMT Impacts Relapse Rates of Non-Medical Opioid Users Being Treated with Medically Assisted Treatment	Danielle Cooley	American Osteopathic Association (AOA)	\$147,764.00
OPEND-PORT to Life	Richard Jermyn	New Jersey Health Foundation, Inc. (NJHF)	\$35,000.00
DMHAS-RowanSOM Integrated Primary Care MAT Coaching Program	Richard Jermyn	NJ Department of Human Services	\$990,000.00
AAMC Opioid Education Challenge Grant Program	Richard Jermyn	Association of American Medical Colleges	\$25,000.00
First Responders- Comprehensive Addiction and Recovery Act Grants	Richard Jermyn	Atlantic County	\$909,798.00
Minority AIDS Initiative for High Risk Men of New Jersey	Richard Jermyn	US Substance Abuse and Mental Health Services Administration	\$2,500,000.00
Southern New Jersey Medication Assisted Treatment Center of Excellence	Richard Jermyn	NJ Department of Human Services	\$2,000,000.00
DATA Waiver Training Program	Richard Jermyn	NJ Department of Human Services	\$1,000,000.00
NJ Opioid Medical Education Program	Richard Jermyn	NJ Department of Health	\$997,570.00
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	Richard Jermyn	Revance Therapeutics, Inc.	\$78,722.00

### **Surgery**

Title	Project Investigator	Sponsor	Requested Amount
Eradication of <i>C. acnes</i> using cold atmospheric plasma	Tara Gaston	Orthopedic Research and Education Foundation	\$14,000.00



# SPONSORED PROGRAMS STAFF

## Proposal Development Staff

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**Steve Robishaw**

Proposal Development Manager

## Pre-Award Staff

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Director, OSP

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Proposal Specialist

**Vicki Lex**

Contract Specialist

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Proposal Specialist

**Lisa Powell**

Proposal Specialist

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Post Award Specialist

**Marcus Smith**

Post Award Specialist

**Lacey Murphy**

Post Award Specialist

**Jose Garcia-Cruz**

Post Award Specialist

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Vice President for Research

**Joanie Schneider**

Managing Administrative Assistant

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**Patricia Gessner**

IRB Program Assistant

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Budget Coordinator

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## Office of Technology Commercialization

**Yatin Karpe**

Director of Technology Commercialization

**Rick Kitei**

Patent Portfolio Manager



**Division of University Research**

**Sam Jones Innovation Center**

**Suite 103**

**Mullica Hill, NJ 08062**

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