



**Proposals Submitted
July 1, 2020 - June 30, 2021**

Principal Investigator	Agency	Title	Amount
Akwaboa, Stephen	U.S. DoD	Enhancement of Research and Education in Material Science through the Acquisition of Discovery Laser Flash (DLF1600) Investigative Thermal Equipment	\$251,027.00
Banadaki, Yaser	LA BOR	Develop an Intelligent Software to Analyze and Improve Flaws in the Printed Parts/Layers of Additive Manufacturing	\$5,000.00
Banadaki, Yaser	LA BOR	Machine Learning-based Control System to Monitor and Improve the Additive Manufacturing Process	\$10,000.00
Banadaki, Yaser	NSF	Excellence in Research: Enhancing Research and Education in Cyber-enabled Smart Materials, Manufacturing and Systems (CSMMS) at Southern University	\$451,521.00
Banadaki, Yaser	LSU	Machine Learning Assisted Design of Vitrimers for 4D Printing	\$186,731.00
Banadaki, Yaser	LSU	NRT-QISE: Quantum Joint University Network (QuaJUN)	\$345,535.00
Banadaki, Yaser	National Security Agency	Southern University GenCyber Youth Camp	\$148,719.00
Banadaki, Yaser	LA BOR	Southern University System - Cybersecurity Talent Initiative Program (SUS-CyberTIP)	\$205,519.00
Barley, Tracy	U.S. DoEd	A Framework for HBCU Resilience and Improvement in a Pandemic Environment	\$2,784,851.00
Barley, Tracy	LA BOR	Cultural Responsiveness in Higher Education: Preparing Faculty to Design Online Courses that Foster Equity and Inclusion	\$19,639.00
Batra, Sanjay	NSF	Enhancing Educational Infrastructure and Interdisciplinary Research by Bridging Environmental and Computational Sciences at SUBR	\$605,153.00
Batra, Sanjay	Graduate Women in Science	Lipid Raft Mediated Regulation of Proteasome/Immunoproteasome and Oxidant/Anti-oxidant System in Vaping Induced Inflammation	\$8,500.00

Batra, Sanjay	Graduate Women in Science	Molecular Chaperones Mediated Regulation of Initiator/Executioner Caspases: Effect of Diesel Particulate Extract In-vitro Study	\$8,500.00
Batra, Sanjay	Graduate Women in Science	Novel Role of Epigenetic Mechanisms in Pentachlorophenol-induced Autophagy	\$8,000.00
Batra, Sanjay	LSU	Southern University and A&M College LBRN MCBRC Core Liason	\$5,600.00
Batra, Sanjay	NSF	Enhancement of Interdisciplinary Research and Educational Infrastructure in Two HBCUs in Louisiana	\$2,120,711.00
Batra, Sanjay	NSF	URoL:EN: Role and Regulation of Danger Associated Molecular Patterns in Vaping Induced Toxicity/Inflammation	\$890,795.00
Batra, Sanjay	LSU	Complex Interplay between Hsp90 and Beclin -1 RegulatesTLR-4 Mediated Autophagy during Pentachlorophenol Exposure-an In-vitro Approach	\$18,986.00
Belu, Radian	LA BOR	Feasibility Studies of the Object Tracking through the Use of Color HUE Image Processing	\$5,000.00
Belu, Radian	LA BOR	Multi-scale Approaches to Analyze, Design and Model High Efficiency Photovoltaics	\$5,000.00
Belu, Radian	LA BOR	A Multi-scale Energy Systems Engineering Approach for Renewable Energy Generation and Energy Storage Optimization	\$5,000.00
Belu, Radian	LA BOR	A Multi-scale Energy Systems Engineering for Micro-combined Heat and Power Systems	\$5,000.00
Belu, Radian	LA BOR	Counterfeit Detection and Process Monitoring with Multispectral Imaging Techniques	\$5,000.00
Belu, Radian	LA BOR	A Unified Laboratory for Education, Training and Research of Renewable Energy and Smart Micro-Grids (RESmG)	\$217,463.00
Dawan, Fareed	Southeastern Louisiana University	STEM ³ in South-East Louisiana	\$16,289.95
Dawan, Fareed	Clarkson Aerospace Corporation	Formation of Complex 3D Metal Architecture Using 3D Printed Polymers as Electroplating Scaffolds	\$249,993.00
Diack, Moustapha	Carnegie Mellon University	Addressing Racial Disparities in Healthcare through Development and Continuous Improvement of Data-enabled Open Educational Resources	\$364,727.00
Diack, Moustapha	NSF	Targeted Infusion Project: Implementing an Evidence-based Model of Online Course Design and Delivery to Enhance Academic Success in STEM Disciplines	\$399,677.00
Dilworth, Kimyata	LA BOR	Determine the Random Paths and Distortion using Cramer's Rule, Volume and Linear Transformation.	\$5,000.00

Doucet, Patricia	U.S. DoEd	Talent Search CLASSIC - Southern University and A&M College	\$2,726,605.00
Doucet, Patricia	U.S. DoEd	Talent Search EXCEL - Southern University and A&M College	\$1,386,875.00
Dubyska, Lidiya	NSF	Excellence in Research: Role of the T3SS Effector EseN of E. Ictaluri in Virulence and Host Immune Response	\$727,015.00
Ejigiri, Damien	Texas A&M University	SRS RN: Integrated Food, Energy, Water Units for Disaster Resilient Sustainable Regional Systems	\$7,000.00
Flowers-Benton, Susan	Wake Forest University Health Sciences	Integrating Health Equity in African American Alzheimer's Research and Learning (I-HEAL)	\$134,000.00
Flowers-Benton, Susan	Wake Forest University Health Sciences	Integrating Health Equity in African American Alzheimer's Research and Learning (I-HEAL)	\$162,000.00
Gao, Feng	LA BOR	Machine Learning Strength Prediction of Multicomponent Alloys	\$5,000.00
Gao, Feng	LA BOR	High Pressure Experimental and Computational Study of High Entropy Alloys	\$10,000.00
Gray, Wesley	NIH	Academic Research Enhancement Award for Undergraduate at SUBR (AREA @ SUBR)	\$412,800.00
Gray, Wesley	NIH	U-RISE at Southern University (U-RISE@SUBR)	\$3,776,660.00
Gwee, Nigel	National Security Agency	Southern University GenCyber Teacher Camp	\$92,905.00
Ismail, Yasser	LA BOR	Automated Drug and Alcohol Detection of Louisiana Drivers	\$5,000.00
Ismail, Yasser	LA BOR	6-DOF Robotic Arm using Haptic Feedback	\$5,000.00
Ismail, Yasser	LA BOR	Efficient Internet of Video Surveillance Systems [IoVSS] for Smart Cities	\$158,375.00
Ismail, Yasser	NSF	Collaborative Research: Transforming the Construction and Management of a Smart Infrastructure through a Georeferenced Deep Learning Approach	\$75,080.00
Ismail, Yasser	Louisiana Transportation Research Center (LTRC)	High-Fidelity Fatigue, Drowsiness, and Drunk Drivers Detection (FD4) System	\$30,000.00
Ismail, Yasser	Apple, Inc.	VLSI/FPGA Laboratory for Enhancing Computer Engineering at Southern University and A&M College	\$1,092,905.00
Jackson, Lynette	National Security Agency	Southern Univeristy GenCyber Teacher Camp	\$97,142.00
Jackson-Osagie, Emily	California Polytechnic State University	A New STAR Is Born: Expanding the Reach of a Successful Preservice Teacher Research Program	\$193,065.00
Jahan, Maryam	LA BOR	Cost Effective and Environmental Friendly Bifunctional Oxygen Reduction and Oxygen Evolution Catalyst	\$20,000.00

Johnson, Melanie	LA BOR	Reinventing POLS Course Syllabi in a Post-COVID-19 World: Contemporary Approaches	\$7,000.00
Jones, Nastassia	Bill & Melinda Gates Foundation	Strengthening Algebra I in Louisiana Schools using STACK	\$99,599.00
Khondoker, Mohammad Abu	NSF	Research Initiation Award: Development of Additive Manufacturing System for Smart Multi-Scale Porous Polymer Nanocomposite	\$286,341.00
Khondoker, Mohammad Abu	LA BOR	Digital Light Processing of Ultraviolet Curable Resin Reinforced with Magnetically Oriented Fibers	\$38,650.00
Kight, Dawn	National Endowment for the Humanities	Cade Library Louisiana Pictorial History Initiative (CLLPHI)	\$182,199.00
Kourouma, Mathieu	LA BOR	Stimulating Teaching, Learning and Instructional Alignment in Computer Science Department at SUBR	\$199,864.00
Kundu, Madan	Administration for Community Living	A Systems Approach to Life Transitions (SALT): Creation of Taylor Application	\$600,000.00
Kundu, Madan	Louisiana Rehabilitation Services	Development and Validation of Social Cognitive Career Theory (SCCT) Interventions for VR Consumers - A Career Pathway for Quality Employment and Upward Mobility in STEMM Fields: Project STEMM-UP	\$3,081,028.00
Lacy, Fred	Central Intelligence Agency	Using Sensor Networks and Machine Learning to Characterize Agricultural Responses to Stimuli	\$350,000.00
Martinez-Ceballos, Eduardo	LSU	Southern University and A&M College LBRN BBCC Core Bucks	\$5,600.00
Mellieon Jr., Harold	USDA	Grow jAGs: Growing the Next Generation of Agriculture Professionals through Recruitment and Retention	\$150,000.00
Mensah, Patrick	Microsoft Impact 2020	Enhancing Computer Engineering and Big Data Education (CEBDE) at Southern University and A&M College	\$200,000.00
Mensah, Patrick	LA BOR	Southern University Board of Regents/SREB Doctoral Fellowship	\$135,000.00
Mensah, Patrick	NSF	RII Track-2 FEC: Rapid Qualification for Additively Manufactured Safety-Critical Components	\$4,000,000.00
Mensah, Patrick	NSF	Southern University Partnership for Research and Education in Materials Excellence (SUPREME)	\$3,992,932.00
Mensah, Patrick	LSU	Southern University and A&M College LBRN Administrative Funds	\$26,600.00
Mensah, Patrick	NASA	STEM ³ in South-East Louisiana	\$1,184,907.00
Mensah, Patrick	NASA	Additive Manufacturing of Fire Retardant and Repairable Composite Based on Lunar Regolith and Vitrimer Epoxy under Luna Conditions	\$51,783.00
Merrick, Robyn	National Park Service	Martin L. Harvey Auditorium Building Project	\$499,730.00

Munoz-Barona, Humberto	The University of Texas at Arlington	Developing AI-driven Innovations to Enhance Agricultural Production and Food Safety under Conservation of National Resources	\$799,999.00
Okwan, Phyllis	LA BOR	Analysis of High School Students' Louisiana Educational Assessment Program (LEAP) Scores in Mathematics	\$5,000.00
Okwan, Phyllis	LA BOR	Perceptions of STEM Education in HBCUs	\$5,000.00
Okwan, Phyllis	LA BOR	Facilitators and Barriers of STEM Education at HBCUs	\$5,000.00
Perry, Kristie	LSU	Center for COVID-19 Health Disparities in Louisiana (CCHDL)	\$50,000.00
Reese, Terrence	LSU	2021 Space and Planetary Science at the Timbuktu Academy (2021 SPS-TA)	\$50,000.00
Reese, Terrence	LA DHH	Stemming the Pool of Future Minority Clinicians at the Timbuktu Academy	\$500,000.00
Salam, Md Abdus	Morgan State University	Advancing Awareness and Engagement in Blockchain and Financial Technology through Blockchain FinTech Club	\$10,000.00
Salam, Md Abdus	NASA	Development of Data Visualization Software to Remotely Monitor on Multiple Platforms	\$36,717.00
Scott-Stewart, Erin	American Education Research Association	A Mixed Methods Investigation of Writing for Deeper Learning: Evaluating Assignments and Student Work and Analyzing Student Perspectives	\$24,998.00
Seo, Jung-Im	LA BOR	Influences of the Online Grocery Shopping Behaviors on Obesity Health Condition through Body Mass Index [BMI] and Body Shape Index [BSI]	\$192,312.00
Stubblefield, Michael	Minority Business Development Agency (MBDA)	The Louisiana Minority Business Development Agency (LA-MBDA) Center	\$187,500.00
Taylor, Cheryl	Oak Ridge Associated Universities	Access to Health Literacy for Life: Learning the National Library of Medicines Resources Online	\$21,000.00
Uppu, Rao	NSF	Collaborative Research: FMRG: Eco: Green Eco-friendly Nanofluidic Electronics System Integrations for Life Sciences, Environmental Sciences, Healthcare, and Biosecurity (GENESIS)	\$400,000.00
Wang, Weihua	LA BOR	Dendrimer-mediated Synthesis of Multimetallic Alloy Nanoparticles	\$10,000.00
Warren, Brian	NSF	ERI: Experimental and Modeling Characterization of Microwave induced Chemical Synthesis in Casted Metal Alloys	\$197,218.00
Womack-Bell, Ada	LA Small Business Development Center	LA Small Business Development Center - SUBR	\$250,000.00
Yang, Shizhong	LA BOR	Semiconductor Alloy Prediction through Machine Learning	\$5,000.00

Yang, Shizhong	U.S. DoD	Enhancement of Extreme Environment Materials Design Research and Education	\$508,782.00
Yang, Shizhong	NSF	Excellence in Research: Machine Learning Based Extreme Environment Materials Design	\$399,997.00
Yang, Shizhong	LA BOR	Design of Complex Concentrated Alloys with Balanced Mechanical Properties	\$40,000.00
Yang, Shizhong	LA BOR	Radiation Resistance Alloy Design through Data Analysis	\$5,000.00
Yang, Shizhong	U.S. DoD	CoE: Data Driven Discovery of Materials	\$7,500,000.00
Yang, Shizhong	NSF	EAGER: SUPER: Machine Learning and Experiment Validation of High Temperature Superconductors	\$300,000.00
Young, Luria	NSF	Confidence Matters: Increasing Female Participation through Leadership Development	\$1,270,592.00
TOTAL - 93			\$48,335,711.95



**Proposals Funded
July 1, 2020 - June 30, 2021**

Principal Investigator	Agency	Title	Amount
Andrews, Donald	U.S. Department of Commerce	Southern University and A&M College Baton Rouge - University Center for Economic and Entrepreneurial Development	\$112,850.00
Banadaki, Yaser	NSF	Targeted Infusion Project: Southern University - Computing and Data Education (SU-CoDE)	\$399,899.00
Banadaki, Yaser	LA BOR	Develop an Intelligent Software to Analyze and Improve Flaws in the Printed Parts/Layers of Additive Manufacturing	\$5,000.00
Banadaki, Yaser	The University of Alabama	RII Track-2 FEC: IGM--A Framework for Harnessing Big Hydrological Datasets for Integrated Groundwater Management	\$49,332.00
Banadaki, Yaser	National Security Agency	Southern University GenCyber Youth Camp	\$99,744.00
Batra, Sanjay	LA DoEd	Diesel Particulate Extract-Mediated Inflammatory Responses: Hybrid <i>In-Silico/In-Vitro</i> Studies on Lung Epithelial Cells	\$2,500.00
Batra, Sanjay	Grambling State University	The Role and Regulation of Autophagy during Pentachlorophenol Exposure	\$21,000.00
Batra, Sanjay	LSU	LBRN: The Role and Regulation of Autophagy during Pentachlorophenol Exposure	\$14,447.00
Batra, Sanjay	LSU	Southern University and A&M College MCBRC CORE Liaison Funds	\$5,600.00
Belu, Radian	Northwestern State University	An Online Z-degree Certificate in Renewable Energy and Energy Management	\$16,000.00
Belu, Radian	LA BOR	A Multi-scale Energy Systems Engineering for Micro-combined Heat and Power Systems	\$5,000.00
Belu, Radian	LA BOR	A Multi-scale Energy Systems Engineering Approach for Renewable Energy Generation and Energy Storage Optimization	\$5,000.00
Belu, Radian	LA BOR	Multi-scale Approaches to Analyze, Design and Model High Efficiency Photovoltaics	\$5,000.00

Belu, Radian	LA BOR	Feasibility Studies of the Object Tracking through the Use of Color HUE Image Processing	\$5,000.00
Borskey, Erma	Northwestern State University	Title IV-E Child Welfare Training	\$433,363.00
Brister Jr., Herman	LA DoEd	Strong Start	\$225,780.00
Brister Jr., Herman	LA DoEd	Title I	\$757,425.00
Brister Jr., Herman	LA DoEd	Title IV-A SSAE	\$62,720.00
Brister Jr., Herman	LA DoEd	Direct Student Services (DSS)	\$31,037.00
Brister Jr., Herman	LA DoEd	Title II-A	\$91,952.00
Brown, Sandra	LA BOR	Nursing Capitation 2020-21	\$56,000.00
Carriere, Patrick	U.S. DoEd	Pathways for Advancing Student Success (PASS) in STEM	\$249,943.00
Carriere, Patrick	LA DOTD	National Summer Transportation Institute	\$49,921.49
Chappell, Christopher	USDA	UF Career Readiness Campaign - Virtual/Onsite Speaker Series	\$50,000.00
Dilworth, Kimyata	LA BOR	Determine the Random Paths and Distortion using Cramer's Rule, Volume and Linear Transformation	\$5,000.00
Doucet, Patricia	U.S. DoEd	Talent Search EXCEL	\$277,375.00
Doucet, Patricia	U.S. DoEd	Talent Search CLASSIC	\$545,321.00
Gao, Feng	LA BOR	Machine Learning Strength Prediction of Multicomponent Alloys	\$5,000.00
Gao, Feng	LA BOR	High Pressure Experimental and Computational Study of High Entropy Alloys	\$10,000.00
Gray, Wesley	The University of Kentucky Research Foundation	STTR: Southeast Xlerator Network	\$3,811.00
Ismail, Yasser	LA BOR	Automated Drug and Alcohol Detection of Louisiana Drivers	\$5,000.00
Ismail, Yasser	LA BOR	6-DOF Robotic Arm using Haptic Feedback	\$5,000.00
Johnson, Melanie	LA BOR	Reinventing Political Science Course Syllabi in Post-COVID-19 World: Contemporary Approaches	\$3,000.00
Khondoker, Mohammad	LA BOR	Digital Light Processing of Ultraviolet Curable Resin Reinforced with Magnetically Oriented Fibers	\$38,650.00
Kourouma, Mathieu	University of Louisiana at Lafayette	RII Track-2 FEC: Precise Regional Forecasting via Intelligent and Rapid Harnessing of National Scale Hydrometeorological Big Data	\$220,000.00
Kourouma, Mathieu	LA BOR	Stimulating, Teaching, Learning and Instructional Alignment in Computer Science Department at SUBR	\$199,864.00
Lawson, Huey	U.S. DoEd	Title III HBCU	\$7,383,003.00
Lawson, Huey	U.S. DoEd	HBCU Program - FUTURE Act	\$1,465,886.00
Li, Guoqiang	LA BOR	Louisiana Materials Design Alliance (LAMDA)	\$227,684.00

Mackie, Kenneth	U.S. DoEd	Southern University Upward Bound Math and Science Program (Endeavour)	\$297,601.00
Martinez-Ceballos, Eduardo	LSU	Southern University and A&M College LBRN Core Liaison Funds	\$5,600.00
Mellieon, Harold	USDA	Grow jAGs: Growing the Next Generation of Agriculture Professionals through Recruitment and Retention	\$150,000.00
Mensah, Patrick	LA BOR	SUBR/Board of Regents Fellowship Program	\$45,000.00
Mensah, Patrick	NSF	CREST Center for Next Generation Multifunctional Composites (NextGen Composites Phase II)	\$2,099,995.00
Mensah, Patrick	United Launch Alliance	Modeling and Analysis of Cryogenic Thermal Transitions using Computational Fluid Dynamics (CFD) and Thermomechanical Analysis	\$50,000.00
Mensah, Patrick	NASA	STEM ³ in South-East Louisiana	\$44,050.31
Mensah, Patrick	Microsoft Corporation	Enhancing Computer Engineering and Big Data Education (CEBDE) at Southern University and A&M College	\$200,000.00
Mensah, Patrick	University of Delaware	Composite Manufacturing Technologies for Aerospace Performance at Automotive Production Rates	\$100,000.00
Mensah, Patrick	LA BOR	Louis Stokes Science, Technology, Engineering and Mathematics (STEM) Pathways & Research Alliances at Southern University and A&M College	\$269,179.00
Mensah, Patrick	LSU	Southern University and A&M College LBRN Administrative Funds	\$26,600.00
Merckerson, Clarence	University of Iowa	Project PEER (Prevent, Engage, Empower and Respond)	\$91,039.00
Ning, Zhu	USDA	Career Readiness through Urban Forest Management and Leadership Skills Training	\$25,000.00
Okwan, Phyllis	LA BOR	Perceptions of STEM Education in Historically Black Colleges and Universities (HBCUs)	\$5,000.00
Okwan, Phyllis	LA BOR	Facilitators and Barriers of STEM Education at Historically Black Colleges and Universities (HBCUs)	\$5,000.00
Okwan, Phyllis	LA BOR	Analysis of High School Students' Louisiana Educational Assessment Program (LEAP) Scores in Mathematics	\$5,000.00
Pitts, Maurice	U.S. Department of Interior	Southern University and A&M College Historic District Preservation Archive Building	\$499,938.00
Reese, Terrence	LSU	2019 Space and Planetary Science at the Timbuktu Academy (2019 SPS-TA)	\$62,000.00
Robinson, Rhonda	U.S. DoEd	Southern University Upward Bound Math and Science Program (Discovery)	\$297,601.00
Robinson, Rhonda	U.S. DoEd	Enterprise: Upward Bound Project	\$297,600.00

Salam, Md Abdus	The FinTech Center at Morgan State University	Advancing Awareness and Engagement in Blockchain and Financial Technology through Blockchain FinTech Club	\$10,000.00
Sherrard, Renita	LA DoEd	Real-time Early Access to Literacy	\$2,500.00
Spurlock, Wanda	LA DHH	LA Women, Infants and Children (WIC) Program	\$121,337.00
Taylor, Cheryl	Oak Ridge Associated Universities (ORAU)	Access to Health Literacy for Life: Learning the National Library of Medicines Resources Online	\$21,000.00
Tolbert, Catrice	LA Department of Health	Prevention Training in Louisiana / Louisiana Center for Prevention Resources	\$345,836.00
Tolbert, Catrice	LA Department of Health	Mental Health First Aid and Prevention Professional Workforce Development Training	\$349,720.00
Twumasi, Yaw	1890 Universities Foundation	Innovative and Sustainable Small Farms, Ranchers and Forest Land Initiative	\$15,000.00
Twumasi, Yaw	LSU	Satellite-Assisted Forecasting Environment for Improving Oyster Safety (SAFE Oyster)	\$79,723.00
Wang, Weihua	LA BOR	Dendrimer-Mediated Synthesis of Multimetallic Alloy Nanoparticles	\$10,000.00
Washington, Samuel	The Boeing Company	Boeing SLS Project: Weetech Testing and Wire Harness	\$995,000.00
Womack-Bell, Ada	Louisiana Delta Community College	Louisiana Small Business Development Center 2020-21	\$250,000.00
Yang, Shizhong	LA BOR	Semiconductor Alloy Prediction through Machine Learning	\$5,000.00
Yang, Shizhong	LA BOR	Machine Learning-based Control System to Monitor and Improve the Additive Manufacturing Process	\$10,000.00
Yang, Shizhong	North Carolina Central University	Consortium for Nuclear Security Advanced Manufacturing Enhanced by Machine Learning (NSAM-ML)	\$170,000.00
Yang, Shizhong	LA BOR	Design of Complex Concentrated Alloys with Balanced Mechanical Properties	\$40,000.00
Yang, Shizhong	LA BOR	Radiation Resistance Alloy Design through Data Analysis	\$5,000.00
Yi, Xiaoping	LSU	LBRN: Apoptosis Pathway Induced by RES and Anitcancer Drug in 3D Culture of Prostate Cancer Cells	\$84,000.00
Young, Luria	NSF	Collaborative Research: LIGO-SEC Partership - Strengthening Communities of Learners	\$625,000.00
TOTAL - 77			\$20,864,426.80