

**BOARD OF REGENTS SUPPORT FUND  
ENHANCEMENT PROGRAM**

**REVIEW OF COMPETITIVE PROPOSALS SUBMITTED FOR  
FUNDING CONSIDERATION IN THE  
DEPARTMENTAL ENHANCEMENT PROGRAM**

**FY 2022-23 COMPETITION**

**March 2023**

**REPORT OF THE FINAL PANEL**  
**BOARD OF REGENTS SUPPORT FUND**  
**DEPARTMENTAL ENHANCEMENT PROGRAM**  
**FY 2022-23**

**BACKGROUND INFORMATION**

One hundred two (102) proposals requesting a total of \$15,353,783 in first-year funds were submitted for funding consideration in fiscal year (FY) 2022-23 to the Departmental Enhancement Program of the Board of Regents Support Fund (BoRSF). Nine disciplines were eligible, including Arts, Business, Chemistry, Computer & Information Sciences, Earth & Environmental Sciences, Education, Engineering A, Mathematics, and Targeted Workforce.

As described in the FY 2022-23 Departmental Enhancement Request for Proposals (RFP), academic units at eligible institutions could submit two types of proposals: Comprehensive Enhancement proposals, which could request up to \$1,000,000 over five years; and Targeted Enhancement proposals, which could request up to \$250,000 for one year. Individual academic units could submit only one (1) Comprehensive Enhancement proposal, though there were no restrictions on the number of Targeted Enhancement proposals submitted. An institutional screening committee consisting of, at minimum, an administrative representative from the academic unit, an institutional academic officer, and a representative from the campus's sponsored programs office, was required to approve the selection of Comprehensive Enhancement submissions for each academic unit, as well as approve and rank Targeted Enhancement submissions in order of priority to the submitting academic unit. Overall, twenty-one (21) Comprehensive Enhancement proposals and eighty-one (81) Targeted Enhancement proposals were submitted. The RFP noted that only one to three Comprehensive Enhancement proposals could be selected for funding due to limited monies available and the high long-term commitment of dollars required.

**THE REVIEW PROCESS**

The one hundred two (102) proposals submitted were reviewed by discipline-based panels. The chairs of each review panel represented their respective discipline on the final panel and submitted written reports with a priority ranking of highly recommended proposals to the final panel chair, Dr. Wei You, Department of Chemistry Chairperson at the University of North Carolina.

After careful consideration of all panel reports during March 2023, the final panel chair highly recommended for funding three (3) Comprehensive Enhancement proposals for a total of \$740,067 in first-year funds, and twenty-six (26) Targeted Enhancement proposals for a total of \$2,637,934 in first-year funds, based on monies projected to be available. Overall, twenty-nine (29) Departmental Enhancement proposals are recommended for total support of \$3,378,001 in first-year funds. For the three (3) Comprehensive Enhancement proposals highly recommended for funding, a total of \$1,923,924 was recommended over five years.

Table I of this report contains the rank-order list of all proposals highly recommended for funding. Table II lists the final panel chair and contributing consultants of the eight (8) discipline-based

review panels; no proposals were submitted in Targeted Workforce, so no panel was convened. These are followed by a compilation of written comments submitted by the discipline-based review panels for each of the highly recommended proposals. Appendix A contains a list of all Departmental Enhancement proposals submitted, and Appendix B contains the rating form used by all consultants to evaluate proposals.

All proposals not recommended for funding (i.e., any proposal not listed in Table I) will receive debriefing material summarizing reviewer assessments of the project in July 2023, to assist applicants in development of future submissions to Departmental Enhancement and other grant programs. These materials will be distributed via the PI LOGAN account used to submit the original proposal.

**Table I**  
**FY 2022-23 Departmental Enhancement**  
**Proposals Highly Recommended for Funding**

Rank	#	Institution	Discipline	Type	1st Year Request	1st Year Recommendation
1	013ENH-23	Tulane	Arts	Comprehensive	\$242,827	\$242,827
1	054ENH-23	McNeese	Business	Targeted	\$176,741	\$100,000
1	071ENH-23	SLU	Chemistry	Targeted	\$88,046	\$88,046
1	096ENH-23	ULM	Earth & Env	Targeted	\$51,252	\$51,252
1	009ENH-23	SU A&M	Education	Comprehensive	\$238,290	\$198,000
1	050ENH-23	LaTech	Engineering A	Targeted	\$103,898	\$103,898
1	024ENH-23	Centenary	Mathematics	Targeted	\$20,187	\$20,187
8	075ENH-23	SU A&M	Arts	Targeted	\$106,965	\$106,965
8	047ENH-23	LaTech	Business	Targeted	\$199,110	\$165,750
8	038ENH-23	LSU A&M	Chemistry	Targeted	\$94,093	\$94,093
8	095ENH-23	ULM	Earth & Env	Targeted	\$45,046	\$45,046
8	090ENH-23	ULL	Education	Targeted	\$155,929	\$155,929
8	035ENH-23	LSU A&M	Engineering A	Targeted	\$185,503	\$185,503
8	072ENH-23	SLU	Mathematics	Targeted	\$104,334	\$66,873
15	034ENH-23	LSU A&M	Arts	Targeted	\$199,079	\$199,079
15	094ENH-23	ULM	Chemistry	Targeted	\$200,000	\$200,000
15	021ENH-23	UNO	Earth & Env	Comprehensive	\$299,240	\$299,240
15	055ENH-23	McNeese	Engineering A	Targeted	\$73,766	\$73,766
19	061ENH-23	Nicholls	Arts	Targeted	\$17,073	\$17,073
19	022ENH-23	BRCC	Earth & Env	Targeted	\$115,100	\$115,100
21	070ENH-23	SLU	Arts	Targeted	\$58,493	\$58,493
22	032ENH-23	LSU A&M	Arts	Targeted	\$151,297	\$151,297
23	028ENH-23	LCU	Computer & IS	Targeted	\$66,000	\$66,000
23	045ENH-23	LaTech	Chemistry	Targeted	\$109,983	\$75,000
23	036ENH-23	LSU A&M	Engineering A	Targeted	\$199,740	\$107,580
26	046ENH-23	LaTech	Computer & IS	Targeted	\$199,850	\$100,000
26	076ENH-23	SU A&M	Engineering A	Targeted	\$199,953	\$100,000
28	039ENH-23	LSU A&M	Engineering A	Targeted	\$104,689	\$104,689
29	029ENH-23	LCU	Arts	Targeted	\$86,315	\$86,315
					\$3,892,799	\$3,378,001

**Table II**

<b>FY 2022-23 Departmental Enhancement Reviewers</b>		
<b>Name</b>	<b>Institution</b>	<b>Specialty</b>
<b>Final Panel Chair</b>		
Wei You	University of North Carolina	Chemistry
<b>Engineering A</b>		
Shaikh Ahmed, chair	Southern Illinois University	Computer Engineering
Brandon Weeks	Texas Tech University	Chemical Engineering
Lisa Spainhour	Florida A&M University- Florida State University	Civil Engineering
<b>Chemistry</b>		
Wei You, chair	University of North Carolina	Organic/Polymer
Brian Cullum	University of Maryland Baltimore County	Bioanalytical
<b>Arts</b>		
Kathleen Conlin, chair	University of Illinois	Theatre
Braxton Boren	American University	Music
Sandra Murchison	Eastern Michigan University	Visual Arts
<b>Education</b>		
Albert Byers, chair	Virginia Commonwealth University	STEM Education
Anita Welch	Wayne State University	Education Evaluation
<b>Computer &amp; Information Sciences</b>		
Shuangbao "Paul" Wang, chair	Morgan State University	Cybersecurity
Jaudelice de Oliveira	Drexel University	Computer Engineering
<b>Business</b>		
Nitish Singh, chair	Saint Louis University	International Business
Scott Schaefer	University of Utah	Business Economics
<b>Mathematics</b>		
Hema Srinivasan, chair	University of Missouri	Commutative Algebra
Robin Blankenship	Morehead State University	Graph Theory
<b>Earth &amp; Environmental</b>		
David Eggleston, chair	North Carolina State University	Coastal Sciences
Natasha Dimova	University of Alabama	Geochemistry

## FY 2022-23 Departmental Enhancement Proposals Highly Recommended for Funding

<b>Rank</b>	1
<b>Proposal #</b>	013ENH-23 (Arts)
<b>Institution</b>	Tulane University
<b>Title</b>	Responding to a Fast-Moving Field: Equipment Requests to Upgrade the Lupin Theatre
<b>Requested</b>	\$424,612 (Y1: \$242,827; Y2: \$160,283; Y3: \$21,502)
<b>Recommended</b>	\$424,612 (Y1: \$242,827; Y2: \$160,283; Y3: \$21,502)

Tulane University seeks to upgrade its Lupin Theatre by focusing on four select technologies: scenic automation, projections, digital audio, and lighting. This project was developed holistically by an eminent faculty with superlative national and international artistic accomplishments. Drawing on the Department of Theatre and Dance's historic excellence, the faculty is poised to engage theatrical design instruction and artistic practice at the highest levels using new technologies in their primary laboratory; to increase graduate and undergraduate student expertise; to further professionalize the capabilities of theater workers in Louisiana; and to develop new models for the theatrical field based on intellectual acumen, creative enterprise, and hands-on discovery/research. This project will launch "game-changing" advances, seeding a new generation of curricula, sparking creation of new work in a variety of theatrical contexts and re-establishing Tulane's reputation as a higher education leader in artistic innovation. Highlights include the excellent, well-aligned relationship of goals to mission; an efficient and clearly delineated budget; a commitment to hiring faculty within the context of the goals; a detailed and compelling work plan; a secure sustainability plan; a clear relationship to employment outcomes in Louisiana and beyond; and project evaluation plans based on course development, student input, and the impact of new equipment on faculty and student research. The proposal is well thought out, reasonable, and imaginative. It should serve as a template for future applicants in aligning institutional goals, faculty expertise, and technological advancement. Full funding is recommended.

<b>Rank</b>	1
<b>Proposal #</b>	054ENH-23 (Business)
<b>Institution</b>	McNeese State University
<b>Title</b>	Development of a Liquefied Natural Gas Experiential Learning Lab for Business Applications
<b>Requested</b>	\$176,741
<b>Recommended</b>	\$100,000

McNeese State University seeks to establish a simulation lab for business work in the Liquefied Natural Gas (LNG) industry. This is an interesting and applied project that will meet critical industry and employment needs. The project already has a solid foundation in the newly approved LNG Business Certificate program. Funding this proposal will provide significant applied and experiential learning opportunities to students. Furthermore, the LNG program is well integrated with several courses and will enrich the learning experience via these courses. Most importantly, it will develop student skills in LNG management and connect these students to meet LNG industry demand. Given the importance of this industry sector, such training will boost local and national economic development. The case for sustainability is clearly explained. The institutional match shows long-term commitment. The list of courses affected by the upgrades is clearly outlined and displays the breadth of impacts derived from the implemented changes. Experiential knowledge gained via this project will prepare the students for the LNG industry and meet local industry needs. The project incorporates industry outreach by training small businesses and entrepreneurs to provide qualified support services to the LNG sector. The proposal also outlines the broader impacts on the regional economy and on faculty members. To allow the institution to assess success and incrementally increase resources committed, the panel suggests a scaled-back approach to this project, perhaps starting with 20 computers and 20 SAP licenses, and recommends partial funding of \$100,000.

<b>Rank</b>	1
<b>Proposal #</b>	071ENH-23 (Chemistry)
<b>Institution</b>	Southeastern Louisiana University
<b>Title</b>	Acquisition of a Gas Chromatograph-Mass Spectrometer [GC-MS] to Advance Undergraduate Education and Research at Southeastern Louisiana University
<b>Requested</b>	\$88,046
<b>Recommended</b>	\$88,046

The Department of Chemistry and Physics at Southeastern Louisiana University seeks to acquire a GC-MS to replace an outdated instrument that is 16 years old and no longer supported by the manufacturer. The proposal is well written and thorough. Given the wide applicability of GC-MS, the impacts on research and education are significant. The goals are clearly stated, achievable, and related to the mission statements of the University and the department. Since the proposed new instrument will replace the current, now-obsolete GC-MS, there is no issue in terms of space and support. The University will provide a notable match for the instrument, which shows excellent institutional commitment. Qualified and experienced faculty and staff are on hand to operate and maintain the instrument. Full funding is recommended.

<b>Rank</b>	1
<b>Proposal #</b>	096ENH-23 (Earth & Environmental Sciences)
<b>Institution</b>	University of Louisiana at Monroe
<b>Title</b>	Acquisition of a LiDAR Ceilometer for Atmospheric Science Research and Education
<b>Requested</b>	\$51,252
<b>Recommended</b>	\$51,252

The Atmospheric Science program at ULM seeks to acquire a high-performance LiDAR ceilometer with supporting computing hardware and software for research and education. The PI has clearly contributed to ULM's efforts to maintain excellence in teaching. There are increases in the number of majors (from 31 to 47) and the number of students (from 4 to 12) who have completed their degrees. The enhancement will expand upon the platform created by the PI, which includes other instruments monitoring atmospheric parameters secured through previous funded projects. The request will also impact the PI's research and increase opportunities to collaborate on larger grants. Full funding is recommended.

<b>Rank</b>	1
<b>Proposal #</b>	009ENH-23 (Education)
<b>Institution</b>	Southern University and A&M College
<b>Title</b>	Wraparound Educational Supports for Teacher Candidates [WEST-C]
<b>Requested</b>	\$1,000,000 (Y1: \$238,290; Y2: \$214,409; Y3: \$214,409; Y4: \$166,446; Y5: \$166,446)
<b>Recommended</b>	\$930,892 (Y1: \$198,000; Y2: \$200,000; Y3: \$200,000; Y4: \$166,446; Y5: \$166,446)

Southern University and A&M College seeks funds to invest in teacher preparation, recruitment, and retention, as well as accreditation for the School of Education. Upon graduation, a high percentage of the newly employed teachers enter surrounding school systems, making the teacher preparation program a crucial resource for communities where large percentages of students have high socio-economic need. The project will create the Student Success Center, which will enhance technology training for teacher candidates, increase the role of advisers and counselors, and provide supplemental instruction. Recruitment will improve through increased outreach to partner schools and a growth in opportunities for dual enrollment. An accreditation consultant will help assess needs and collect data. The goals are well articulated and align strongly with the mission of the college. The work plan is detailed. All activities are clearly delineated and aligned with the goals and objectives of the project. The evaluation plan includes clear measures, and an assessment coordinator has been assigned. The proposed project will be leveraged with federal awards to improve programming. The budget seems reasonable and justified, with requested expenditures aligning with the goals and work plan, though the panel has concerns about sustainability given the number of new positions and amount of salary requested. In accordance with Departmental Enhancement program guidelines, the salaried positions created for new programming must be contractually guaranteed by the institution beyond the life of the grant, and written assurances must be provided by SU A&M prior to



approval of the award by the Board of Regents. Contingent on sufficient assurances related to new staff and salaries, partial funding of \$198,000 is recommended in the first year. Budgets of \$200,000 per year are recommended for the second and third years, consistent with Departmental Enhancement funding caps stipulated in the RFP. Full funding is recommended in years four and five. Reductions may be made at the discretion of the PI.

<b>Rank</b>	1
<b>Proposal #</b>	050ENH-23 (Engineering A)
<b>Institution</b>	Louisiana Tech University
<b>Title</b>	Enhancing Nanomaterial Research and Education with a Coupled TGA-GC/MS System
<b>Requested</b>	\$103,898
<b>Recommended</b>	\$103,898

This excellent proposal from Louisiana Tech University is well written and possesses strong intellectual merit. The authors demonstrate a breadth of knowledge that is indicative of a thorough and rigorous approach to the subject matter of the proposal. The work plan is carefully developed, providing comprehensive information related to installation of the equipment as well as its potential applications in both research and teaching. The proposal effectively delineates the instrument's impact on diverse research projects, providing concrete examples. The focus on investigating techniques for recycling and upcycling biomass and polymer waste into high-value fuels and other materials is both crucial and timely in the current context. The requested equipment will significantly advance the program's ability to generate novel insights that could potentially result in disruptive breakthroughs. The sustainability plan has been carefully crafted and the cost recovery model is excellent. Furthermore, there seem to be numerous possibilities for securing federal funding in the future. Overall, the panel is enthusiastic about the potential impact of this project. Full funding is recommended.

<b>Rank</b>	1
<b>Proposal #</b>	024ENH-23 (Mathematics)
<b>Institution</b>	Centenary College of Louisiana
<b>Title</b>	Enhancing Mathematics Education with Technology at Centenary College
<b>Requested</b>	\$20,187
<b>Recommended</b>	\$20,187

This proposal seeks to ensure that students of all income levels can afford graphing calculators by providing each of them with one. The goal of improving student understanding and enjoyment of Mathematics is certainly both achievable and reasonable. The proposal is exceptionally well written. The plan is to train teachers and students to use the equipment in ways to improve their educational experiences and outcomes. This promotes equity, especially in terms of socio-economic status, considering that 42% of Centenary's incoming students are Pell Grant recipients. The work plan is well thought out, the activities are meaningful, and the budget is very minimal for what the project can accomplish. Full funding is recommended.

<b>Rank</b>	8
<b>Proposal #</b>	075ENH-23 (Arts)
<b>Institution</b>	Southern University and A&M College
<b>Title</b>	Frank Hayden Theater Rigging System Renewal: Reopening an Interdisciplinary Performance Space
<b>Requested</b>	\$106,965
<b>Recommended</b>	\$106,965

This well-developed proposal seeks funds to replace antiquated, unsafe overhead rigging and to restore the safety of Southern University's Frank Hayden Theater, the Speech and Theatre program's primary teaching facility, which is currently unusable. The project strengths include institutional commitment to the program and the high impact this funding will provide, the recent hiring of a new faculty member to spearhead this project, recognition of safety as fundamental to the student-faculty laboratory space, a reasonable, well-researched budget that reflects the needs of the staff to implement the plan, and an excellent relationship between project goals the department/campus missions. The impact will be transformative for a program serving a student population eager to prepare appropriately for graduate school and/or career entry. Full funding is recommended.

<b>Rank</b>	8
<b>Proposal #</b>	047ENH-23 (Business)
<b>Institution</b>	Louisiana Tech University
<b>Title</b>	Plaid to Profession
<b>Requested</b>	\$199,110
<b>Recommended</b>	\$165,750

Louisiana Tech University seeks to enhance its Fashion Merchandising and Retail Studies (FMRS) program. This is an interesting project which incorporates learning outside traditional classrooms by providing a unique experience that is unavailable through an internship with a business in the community. The Tech Tartan aspect of the project, planned to provide hands-on experiences for students in learning how to operate a manufacturing and retail company, is unique and will be beneficial for developing an entrepreneurial orientation among the participants. The project clearly aligns with the departmental mission and makes specific claims regarding how it contributes to student and faculty outcomes. Moreover, the Plaid to Profession program could have a broad curricular impact on the institution. The project has a built-in mechanism to achieve long-term sustainability through the profits of Tech Tartan and gifts from community partners for the Career Closet. The project will have a significant student impact across multiple disciplines, including FMRS, art, business, and engineering. The impact also encompasses inter-departmental collaborations, integration into a wide range of courses, workforce development, and an entrepreneurial orientation. The budget and justification are clearly laid out; however, to optimize the budget and ensure institutional commitment, support for the graduate student and student staff should be covered by the institution. Partial funding of \$165,750 is recommended, with no funding for student personnel.

<b>Rank</b>	8
<b>Proposal #</b>	038ENH-23 (Chemistry)
<b>Institution</b>	Louisiana State University and A&M College
<b>Title</b>	A New Multi-Flow Liquid Chromatography System for State-of-the-Art LC-MS/MS Proteomics Research
<b>Requested</b>	\$94,093
<b>Recommended</b>	\$94,093

The Department of Chemistry at Louisiana State University and A&M College seeks to acquire a liquid chromatography (LC) system to couple with an existing mass spectrometer (MS) to enhance the LC-MS/MS proteomics platform. The existing LC (11 years old) will not remain operational much longer, and the proposed LC would be a drop-in replacement to re-enable the LC-MS capability. The proposed LC is part of the proteomics platform, which is utilized by many researchers, so the impact will be significant. The institutional match includes salaries and benefits for the PIs. While this contribution is recognized and appreciated, a stronger match would include additional funds for supplies and options to enhance the capabilities of the proposed LC. Full funding is recommended.

<b>Rank</b>	8
<b>Proposal #</b>	095ENH-23 (Earth & Environmental Sciences)
<b>Institution</b>	University of Louisiana at Monroe
<b>Title</b>	Industrial Hygiene Teaching Laboratory Equipment Enhancement
<b>Requested</b>	\$45,046
<b>Recommended</b>	\$45,046

The School of Basic Pharmacology and Toxicological Sciences at the University of Louisiana at Monroe seeks to replace malfunctioning and outdated equipment used in industrial hygiene teaching laboratory and lecture courses. The requested acquisitions will complement newer equipment from other successful external grants and enhance data collection. Students will acquire hands-on experience and training, including with set-up and calibration, which will make them more competitive in the job market. The work plan is very clear with a detailed timeline that lays out the individual phases of the implementation in the specific courses. The budget is detailed and efficient. Full funding is recommended.

<b>Rank</b>	8
<b>Proposal #</b>	090ENH-23 (Education)
<b>Institution</b>	University of Louisiana at Lafayette
<b>Title</b>	Upgrading Kinesiology Lab Equipment to Enhance Students' Learning Outcomes
<b>Requested</b>	\$155,929
<b>Recommended</b>	\$155,929

The University of Louisiana at Lafayette's School of Kinesiology seeks to acquire lab equipment and software to increase recruitment and retention of faculty and make graduate students more competitive in the workforce. The goals are extremely well stated and align with the mission of the University. The work plan is highly detailed and provides a well-thought-out plan for success. The project includes training for all full-time faculty in the use of the equipment and will provide research opportunities for students. The sustainability plan is simple and effective. All investigators are highly qualified. The budget is detailed and reasonable. Full funding is recommended.

<b>Rank</b>	8
<b>Proposal #</b>	035ENH-23 (Engineering A)
<b>Institution</b>	Louisiana State University and A&M College
<b>Title</b>	Plasma-Enhanced Chemical Vapor Deposition for Research and Education at Louisiana State University
<b>Requested</b>	\$185,503
<b>Recommended</b>	\$185,503

The LSU Center for Advanced Microstructures and Devices (CAMD) seeks to acquire a plasma-enhanced chemical vapor deposition (PECVD) tool for its cleanroom. This is an excellent proposal. The PIs' engagement and productivity in their field are evident in almost every aspect of this proposal. The goals and objectives of the project are thoughtfully laid out, clear, and well defined. The project's rationale is presented in a comprehensive and detailed manner and backed by substantial scientific evidence. The equipment piece will significantly enhance research competitiveness and facilitate the training of graduate and undergraduate students in Chemical Engineering and related fields. The PIs are distinguished researchers, many of whom are actively engaged in ongoing funded projects that can potentially benefit from the requested equipment. The University has demonstrated exemplary support for maintenance of the fabrication facilities, as evidenced by the proposed sustainability plan and the availability of matching funds. Full funding is recommended.

<b>Rank</b>	8
<b>Proposal #</b>	072ENH-23 (Mathematics)
<b>Institution</b>	Southeastern Louisiana University
<b>Title</b>	Linux Servers for Science Majors: Promoting Computing Literacy
<b>Requested</b>	\$104,334
<b>Recommended</b>	\$66,873

This proposal seeks to provide hands-on experience with computing resources and bolster core classes through the acquisition of eight servers. The main goal is to increase the skills of science majors in computer-related areas, thereby promoting the new minor in Scientific Computing. This minor is very timely. The PIs also hope to increase involvement in undergraduate research and provide students with experience using modern equipment. The work plan includes obtaining laptops and making it easier for the students to use the equipment. The project will even require some involvement in undergraduate research, which will better prepare students for the job market. The team has extensive expertise in computational mathematics, computational chemistry and biology, and is well equipped to implement this project. The panel rated this proposal very high across all categories except the budget. The requested servers appear to be a bit too powerful and the number somewhat excessive. Partial support of \$66,873 is recommended with no funding for the two “at large” servers.

<b>Rank</b>	15
<b>Proposal #</b>	034ENH-23 (Arts)
<b>Institution</b>	Louisiana State University and A&M College
<b>Title</b>	Fashion and Textile Artifact Acquisition and Storage Enhancement of the LSU Textile and Costume Museum
<b>Requested</b>	\$199,079
<b>Recommended</b>	\$199,079

LSU’s Textile and Costume Museum seeks to acquire storage facilities and temperature control to secure three major donations of textiles valued at \$1,000,000. The acquisition will provide primary sources for research and education in both fashion history and non-western cultural material. The proposal clearly establishes the relationship of project goals to the departmental mission and the project will impact graduate students in various disciplines. The budget is well articulated and the work plan is clear. Significant impacts are expected for Louisiana and beyond, as these latest donations will catapult the Museum into an international hub for the study of global textile arts. Full funding is recommended.

<b>Rank</b>	15
<b>Proposal #</b>	094ENH-23 (Chemistry)
<b>Institution</b>	University of Louisiana at Monroe
<b>Title</b>	Enhancement of ULM Chemical and Pharmaceutical Research by a 9.4T NMR Spectrometer
<b>Requested</b>	\$200,000
<b>Recommended</b>	\$200,000

The College of Pharmacy at ULM seeks to acquire a 400 MHz NMR to replace a 25-year-old instrument. The proposal provides an eloquent justification. The College has a very strong research program, so having an operational NMR is essential. Other research labs will also benefit from this instrument. ULM is providing a match of \$115,000, which will cover more than one-third of the total cost, demonstrating a strong institutional commitment. A slight concern is whether the proposed NMR instrument can fully satisfy the needs of the faculty related to ongoing and planned research projects. Perhaps triggering the NSF MRI program to acquire a more advanced NMR instrument would better serve the College and the University. However, the panel understands the inherent risk of going through alternative federal channels for a more expensive instrument and the urgent need at the current moment. Full funding is recommended.

<b>Rank</b>	15
<b>Proposal #</b>	021ENH-23 (Earth & Environmental Sciences)
<b>Institution</b>	University of New Orleans
<b>Title</b>	Reimagining the Pontchartrain Institute for Environmental Sciences to Meet Evolving Environmental Challenges Facing Louisiana, the Gulf Coast Region, and Beyond
<b>Requested</b>	\$568,420 (Y1: \$299,240; Y2: \$192,340; Y3: \$76,840)
<b>Recommended</b>	\$568,420 (Y1: \$299,240; Y2: \$192,340; Y3: \$76,840)

The overarching goals of this three-year program are to enhance the University of New Orleans, Pontchartrain Institute for Environmental Sciences by building a multi-disciplinary environmental monitoring network to be deployed across the Lake Pontchartrain basin as a local natural laboratory and maintaining the network as capable of redeployment on future funded projects. Coastal Louisiana is at the forefront of coastal climate change impacts, including sea level rise, increasing frequency and intensity of hurricanes, and submergence via fragmentation of coastal landforms such as salt marshes. This monitoring network will contain state-of-the-art instrumentation that works together both synergistically and as stand-alone instruments that are portable. The data generated will be unique and should help to generate external funding. There is a clear plan for sustainability. Full funding is recommended.

<b>Rank</b>	15
<b>Proposal #</b>	055ENH-23 (Engineering A)
<b>Institution</b>	McNeese State University
<b>Title</b>	Enhancement of the Civil Engineering Labs at McNeese State University
<b>Requested</b>	\$73,766
<b>Recommended</b>	\$73,766

The Department of Engineering and Computer Science at McNeese State University seeks to upgrade its Civil Engineering labs. This proposal is built on a strong rationale that aligns extremely well with the mission and goals of the program. The current facility is outdated and substandard, and the need is clearly presented. The work plan is meticulously crafted, realistic, and detailed. Though an early-career assistant professor, the PI possesses the necessary qualifications to successfully develop the proposed teaching laboratory. Involving industry members in identifying program needs and devising strategies to revamp the curriculum is truly commendable. The panel notes that the proposed curriculum incorporates novel elements for a modern workforce, and the updated equipment will help reverse shrinking program enrollment. Furthermore, by accommodating the testing needs of local industry, the project can generate revenue, which can aid in sustaining the infrastructure. Full funding is recommended.

<b>Rank</b>	19
<b>Proposal #</b>	061ENH-23 (Arts)
<b>Institution</b>	Nicholls State University
<b>Title</b>	Piano Lab A/V Enhancements
<b>Requested</b>	\$17,073
<b>Recommended</b>	\$17,073

The Department of Music at Nicholls State University seeks to upgrade its piano lab with an interactive display and control keypad. This is a modest but crucial request to serve all students in the music program. The proposal presents a clear mission statement that is related to the project goals. The work plan and timeline are detailed and clearly laid out. The institutional pledge to provide ongoing maintenance confirms the project's sustainability. The budget is efficient and grounded in the work plan. The music program is NASM accredited, and the proposal demonstrates a clear understanding of related needs. Led by a superb faculty with an impressive record of piano pedagogy, this straightforward project will have a sizeable impact on four music concentrations in a four-semester course requirement. Full funding is recommended.

<b>Rank</b>	19
<b>Proposal #</b>	022ENH-23 (Earth & Environmental Sciences)
<b>Institution</b>	Baton Rouge Community College
<b>Title</b>	The Louisiana Freshwater Sponge Project: A Platform for Environmental Science Education through Undergraduate Research Experiences and Outreach
<b>Requested</b>	\$115,100
<b>Recommended</b>	\$115,100

BRCC seeks to enhance environmental science education by expanding internship opportunities and community outreach. The goals and objectives are clearly stated, reasonable, achievable, and related to the institutional mission. The project is built on the success of a federal grant that created a research lab for students. Hands-on experience will be offered in courses that are currently taught exclusively online. Students will be presented with opportunities to receive valuable workforce experience and present at academic conferences. The specific tasks to be evaluated and the scoring criteria for each given objective were clearly described. The budget aligns well with the goals of the project, and the costs appear reasonable and justified. Full funding is recommended.

<b>Rank</b>	21
<b>Proposal #</b>	070ENH-23 (Arts)
<b>Institution</b>	Southeastern Louisiana University
<b>Title</b>	Photography + Digital Foundations Studio
<b>Requested</b>	\$58,493
<b>Recommended</b>	\$58,493

SLU's Department of Visual Art and Design seeks to modernize and expand the Photography classroom and laboratory. The project design contains a necessary blend of current technologies and traditional artistic practices. The proposal will update computers and acquire audio and visual equipment, laser cutters, and wide-format printers to prepare students for work in the burgeoning field of visual communication. The budget is efficient, realistic, and leveraged with an institutional match. The PIs have an impressive range of artistic experience. The mission statement and project goals are clearly related. The interdisciplinary lab will have a significant impact on all arts majors, from foundation to capstone courses. Responding in part to NASAD's accreditation recommendations, the faculty have reconceived the curriculum to address students' preparation for highly viable careers in the digital media and entertainment industries prevalent in regional workplaces. Full funding is recommended.



<b>Rank</b>	22
<b>Proposal #</b>	032ENH-23 (Arts)
<b>Institution</b>	Louisiana State University and A&M College
<b>Title</b>	Immersive Sound in XR Studio Production
<b>Requested</b>	\$151,297
<b>Recommended</b>	\$151,297

LSU A&M's School of Music seeks to update the Digital Media Center (DMC) Immersive Sound Lab and Extended Reality (XR) Studio spaces to improve education and research capacity in music recording, film, TV, gaming, and digital arts, as well as music composition and performance. This request builds on the PI's excellent track record and is supported by the campus mission. The project goals are clearly stated. The work plan and timeline are meticulously developed. The evaluation metrics are detailed and clear. The budget is realistic. Improvements made to the physical room acoustic parameters and purchases of new a WFS system and related equipment elevate an already existing lab, with potentially major impacts on research capacity and student employability in Louisiana and beyond. Full funding is recommended.

<b>Rank</b>	23
<b>Proposal #</b>	028ENH-23 (Computer & Information Sciences)
<b>Institution</b>	Louisiana Christian University
<b>Title</b>	Robotics Lab for Undergraduate Computer Science, Pre-Engineering, and School of Education Courses at Louisiana Christian University and for Outreach Initiative for K-12 Educators in CENLA
<b>Requested</b>	\$66,000
<b>Recommended</b>	\$66,000

Louisiana Christian University seeks to enhance infrastructure in its Department of Computer Science with robotics equipment and create three new interdisciplinary courses that will serve Pre-Engineering and Education majors. The project will impact multiple departments and enhance community outreach. The proposal presents clear goals and a sound work plan for implementation. The timeline is ambitious, however, and an evaluation plan is lacking. Nevertheless, the PI has extensive experience and the budget is reasonable. Full funding is recommended.

<b>Rank</b>	23
<b>Proposal #</b>	045ENH-23 (Chemistry)
<b>Institution</b>	Louisiana Tech University
<b>Title</b>	Enhancing Research, Education and Training in Chemistry, Physics and Engineering at Louisiana Tech Through Complementary Infrared and Raman Spectroscopy
<b>Requested</b>	\$109,983
<b>Recommended</b>	\$75,000

The Chemistry program at Louisiana Tech seeks to acquire new ATR-IR and macro-Raman instruments for education and research. The need is clearly justified in the proposal. The program currently has 71 BS Chemistry majors in ACS-certified Chemistry and pre-professional Chemistry

tracks, along with a sizable number of PhD candidates who will benefit from the instruments. The panel appreciates the fact that a few purchase options were vetted, and considers the final selection to be sound. Further, the School is providing a \$20,000 match toward the equipment cost. However, it is unclear whether the team has explored all possible options for acquiring the necessary capabilities outside of purchasing the new instruments. For example, repairing the broken crystal in the current IR could be a cost-effective option. Also, could the current micro-Raman instrument provide data to satisfy some current needs? Weighing the benefits/impacts and other options, the panel recommends partial funding of \$75,000 for the purchase of macro-Raman. The institutional match may be reduced proportionately. The panel suggests exploring options for repairing the current ATR-IR.

<b>Rank</b>	23
<b>Proposal #</b>	036ENH-23 (Engineering A)
<b>Institution</b>	Louisiana State University and A&M College
<b>Title</b>	Building a Smart City Testbed for Research and Education on Connected and Autonomous Electric Vehicles
<b>Requested</b>	\$199,740
<b>Recommended</b>	\$107,580

LSU A&M's Division of Electrical and Computer Engineering seeks to upgrade research and education in transportation and control engineering. The acquisition of a self-driving car studio with connected vehicles aligns very well with the mission of the academic units supporting this strong program. Connected autonomous vehicles present an excellent platform to gain expertise across several engineering domains. The program currently utilizes autonomous or robotic vehicles for simple testing, but the absence of intelligent connectivity is a crucial shortcoming in these vehicles. The equipment will be instrumental in facilitating research in emerging and interdisciplinary fields such as artificial intelligence, advanced optimization, robotics, computer vision, electric drives, and energy technologies. Several faculty members are presently engaged in the software aspect of the problem, and the requested equipment (hardware) will complement their efforts by facilitating the validation of their algorithms and models. Though this is a high-quality proposal on emerging technologies, the justification for acquiring precisely seven Qcars is unclear and the number appears excessive. Partial funding of \$107,580 is recommended to support the purchase of a self-driving car studio with four connected vehicles.

<b>Rank</b>	26
<b>Proposal #</b>	046ENH-23 (Computer & Information Sciences)
<b>Institution</b>	Louisiana Tech University
<b>Title</b>	Hybrid Compute Plane [HCP]
<b>Requested</b>	\$199,850
<b>Recommended</b>	\$100,000

The Computer Science program at Louisiana Tech seeks equipment to build a data center for interdisciplinary research. The goals and objectives are clearly presented and accompanied by a strong evaluation plan with benchmarks. The proposed hybrid computing plane appears promising. The collaboration with industry (IonQ) is very good. The proposed research will impact efforts to

solve difficult real-world problems such as weather prediction. The proposed timeline is not clearly presented. Some of the requested equipment is not crucial to the project's success and some of the equipment cost may be negotiated down. Partial funding of \$100,000 is recommended, with reductions to be made at the discretion of the PI.

<b>Rank</b>	26
<b>Proposal #</b>	076ENH-23 (Engineering A)
<b>Institution</b>	Southern University and A&M College
<b>Title</b>	Constructing an Environmental Microbiology and Biotechnology Laboratory to Augment the Research and Education in the Department of Civil and Environmental Engineering at SUBR
<b>Requested</b>	\$199,953
<b>Recommended</b>	\$100,000

This well-written proposal presents a compelling argument for the establishment of an environmental microbiology and biotechnology laboratory at Southern University and A&M College. The potential impacts and outcomes of the project are very promising and substantial. This equipment acquisition will enhance academic preparedness of all enrolled students, affecting multiple courses and strengthening the regional workforce. Although a relatively new faculty member, the PI possesses a strong research background in related areas and clearly demonstrates the potential to establish and expand their research portfolio. However, the proposed budget is significant, and a large amount of equipment is requested. Inadequate details are provided in the proposal, making the relevance of each item of equipment somewhat unclear. The panel recommends partial funding at a level of \$100,000 to support purchase of essential equipment and supplies for the laboratory, with selections made at the discretion of the PI.

<b>Rank</b>	28
<b>Proposal #</b>	039ENH-23 (Engineering A)
<b>Institution</b>	Louisiana State University and A&M College
<b>Title</b>	Micro-X-ray Absorption Spectroscopy and Operando X-Ray Diffractometry with Synchrotron Radiation
<b>Requested</b>	\$104,689
<b>Recommended</b>	\$104,689

CAMD at LSU A&M manages and operates a unique facility with a synchrotron radiation generator that caters to a diverse user community. The proposal requests funds for the acquisition of two new equipment pieces: X-ray focusing optics that will enable micro X-ray absorption spectroscopy and a high-temperature X-ray diffractometry chamber. The proposal leverages prior experience of the team and exhibits an excellent alignment with the Center's mission. The work plan could be better articulated and would be strengthened by incorporating stronger curricular integration. However, the impact of expanding the synchrotron facility is clear. The proposed equipment can be used in multiple current research projects, including work on developing heterogeneous catalysts. CAMD has an impressive track record of engagement with external collaborators and industry partners, further underscoring the value of this investment. The panel

notes that acquiring the requested equipment has the potential to facilitate knowledge transfer and promote further innovation in the future. Full funding is recommended.

<b>Rank</b>	29
<b>Proposal #</b>	029ENH-23 (Arts)
<b>Institution</b>	Louisiana Christian University
<b>Title</b>	Enhancement of Functional, Safe, and Collegiate-caliber Performance Environment through Replacement of Acoustical Shell & Risers
<b>Requested</b>	\$86,315
<b>Recommended</b>	\$86,315

Louisiana Christian University seeks to replace the outdated risers and shell in its Guinn Auditorium. The risers are over 50 years old and have created serious safety issues for the students who stand on them and the crews who must disassemble and reassemble them with great frequency. The safety factor is crucial enough to warrant support. Full funding is recommended.

# APPENDIX A

**Proposals Submitted to the Departmental Enhancement Program - Comprehensive  
for the FY 2022-23 Review Cycle**

Proposal #	PI Name	Institution	Project Title	Primary Discipline	Amount Requested					
					Year 1	Year 2	Year 3	Year 4	Year 5	Total
001ENH-23	Dr. Cory Wikan	Centenary College	ATTACCA: Artist Training Technology and Community Collaboration Advancement	Arts	\$266,742	\$146,582	\$178,516	\$149,597	\$0	\$741,437
002ENH-23	Dr. Cynthia DiCarlo	Louisiana State University and A & M College	Silver Buckshot, Not Silver Bullet: A Comprehensive Approach to Early Childhood Workforce Shortage through Research-Practice Partnerships	Education	\$251,084	\$199,997	\$199,997	\$199,997	\$199,997	\$1,051,072
003ENH-23	Mr. Isaac Pletcher	Louisiana State University and A & M College	Integration: Building LSUs Film/TV Program to Prepare Students for the Entertainment Industry	Arts	\$256,305	\$82,640	\$0	\$0	\$0	\$338,945
004ENH-23	Prof. Arden Moore	Louisiana Tech University	Comprehensive Enhancement of Louisiana Tech's Institute for Micromanufacturing	Engineering A (Chemical, Civil, Electrical)	\$297,331	\$169,760	\$168,300	\$164,550	\$31,603	\$831,544
005ENH-23	Mr. Jonathon McHugh	Loyola University New Orleans	THE VIDEO GAME & VISUAL MEDIA COMPOSITION MAJOR AT LOYOLA UNIVERSITIES COLLEGE OF MUSIC	Education	\$231,275	\$186,125	\$170,875	\$168,875	\$180,875	\$938,025
006ENH-23	Dr. Jeffrey Wright	Southeastern Louisiana University	TEMPO [Technological Enhancements for Modern-Day Performance Opportunities]	Arts	\$300,000	\$200,000	\$200,000	\$200,000	\$100,000	\$1,000,000
007ENH-23	Mr. John Alleyne	Southern University and A&M College - Baton Rouge	Digital Techniques for Traditional Makers: Enhancement of the Visual Arts Program through a Digital Fabrication Lab	Arts	\$197,418	\$98,787	\$0	\$0	\$0	\$296,205
008ENH-23	Dr. SANJAY BATRA	Southern University and A&M College - Baton Rouge	Enhancement of Research Infrastructure: Environmental Toxicology at SUBR	Earth and Environmental Sciences	\$293,767	\$187,948	\$195,825	\$158,611	\$160,679	\$996,830
009ENH-23	Dr. Erin Scott-Stewart	Southern University and A&M College - Baton Rouge	Wraparound Educational Supports for Teacher Candidates [WEST-C]	Education	\$238,290	\$214,409	\$214,409	\$166,446	\$166,446	\$1,000,000
010ENH-23	Dr. Tai Ha	Tulane University	Creating Calculus and Statistics pathways for all students	Mathematics	\$267,435	\$200,000	\$177,100	\$177,100	\$177,100	\$998,735
011ENH-23	Dr. Vicki Mayer	Tulane University	Strategy, Leadership, and Analytics for Creative Industries Careers of the Future [SLeAC]	Arts	\$187,807	\$172,368	\$163,134	\$112,570	\$0	\$635,879
012ENH-23	Prof. Igor Rubtsov	Tulane University	Enhancement of Research Infrastructure for Supramolecular, Catalysis and Biochemical Studies	Chemistry	\$299,000	\$126,115	\$199,963	\$110,992	\$164,573	\$900,643
013ENH-23	Dr. Ryder Thornton	Tulane University	Responding to a Fast-Moving Field: Equipment Requests to Upgrade The Lupin Theatre	Arts	\$242,827	\$160,283	\$21,502	\$0	\$0	\$424,612
014ENH-23	Prof. Carola Wenk	Tulane University	Establishing an Accessible Computing Infrastructure for Artificial Intelligence and Data Science Research and Education	Computer and Information Sciences	\$251,724	\$146,626	\$261,830	\$174,400	\$165,345	\$999,925
015ENH-23	Dr. Hsiu-Yueh Hsu	University of Louisiana at Lafayette	Supply Chain Management Simulation Lab	Computer and Information Sciences	\$261,085	\$98,175	\$65,909	\$0	\$0	\$425,169
016ENH-23	Dr. Mohammad Khattak	University of Louisiana at Lafayette	Enhancement of Materials Multiscale Mechanical Testing Capacity of College of Engineering at UL Lafayette	Engineering A (Chemical, Civil, Electrical)	\$289,234	\$186,982	\$185,465	\$175,759	\$162,543	\$999,983

**Proposals Submitted to the Departmental Enhancement Program - Comprehensive  
for the FY 2022-23 Review Cycle**

Proposal #	PI Name	Institution	Project Title	Primary Discipline	Amount Requested					
					Year 1	Year 2	Year 3	Year 4	Year 5	Total
017ENH-23	Dr. Douglas Williams	University of Louisiana at Lafayette	Learning Lab @ UL Lafayette: Equipping and Empowering Future Teacher Leaders	Education	\$299,909	\$199,897	\$199,230	\$199,822	\$99,324	\$998,182
018ENH-23	Prof. Wu Xu	University of Louisiana at Lafayette	Development of multidisciplinary projects centered on decarbonizing and renewable energy as a driving force for enhancing infrastructure to facilitate the transition from an undergraduate to undergraduate-graduate chemistry program	Chemistry	\$294,119	\$189,220	\$184,432	\$196,981	\$135,235	\$999,987
019ENH-23	Dr. Leigh Hersey	University of Louisiana at Monroe	Women Take FLIGHT Expansion	Business	\$13,760	\$19,660	\$24,740	\$32,110	\$9,500	\$99,770
020ENH-23	Dr. John Rakus	University of Louisiana at Monroe	Use of State-of-the-Art Instrumentation to Enhance Undergraduate Chemistry Education at UL-Monroe	Chemistry	\$202,304	\$112,125	\$0	\$0	\$0	\$314,429
021ENH-23	Prof. Robert Mahon	University of New Orleans	Reimagining the Pontchartrain Institute for Environmental Sciences to meet evolving environmental challenges facing Louisiana, the Gulf Coast region, and beyond	Earth and Environmental Sciences	\$299,240	\$192,340	\$76,840	\$0	\$0	\$568,420

Total Number of Proposals Submitted	21
Total Funds Requested for First Year	\$5,240,656
Total Funds Requested for Second Year	\$3,290,039
Total Funds Requested for Third Year	\$2,888,067
Total Funds Requested for Fourth Year	\$2,387,810
Total Funds Requested for Fifth Year	\$1,753,220
<b>Total Funds Requested</b>	<b>\$15,559,792</b>

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2022-23 Review Cycle**

<b>Proposal Number</b>	<b>PI Name</b>	<b>Institution</b>	<b>Project Title</b>	<b>Primary Discipline</b>	<b>Amount Requested</b>
022ENH-23	Dr. Mary Miller	Baton Rouge Community College	The Louisiana Freshwater Sponge Project: A platform for Environmental Science Education through Undergraduate Research Experiences and Outreach	Earth and Environmental Sciences	\$115,100
023ENH-23	Dr. Barbara Davis	Centenary College	Student Entrepreneurship Program	Business	\$24,777
024ENH-23	Dr. Christal Schoen	Centenary College	Enhancing Mathematics Education with Technology at Centenary College	Mathematics	\$20,187
025ENH-23	Prof. Michael Sledge	Centenary College	Centenary Theatre Program Lighting and Electrical Enhancements	Arts	\$89,523
026ENH-23	Dr. Ruby Broadway	Dillard University	Enhancement of the Biology Curriculum: Integration of Climate Change, Global Warming, and the Greenhouse Effect	Earth and Environmental Sciences	\$70,941
027ENH-23	Dr. Dorian Williams	Dillard University	Enhancement of the College of Business via Print Shop Phase II.	Business	\$139,000
028ENH-23	Dr. Theodore Chiasson	Louisiana Christian University	Robotics lab for undergraduate computer science, pre-engineering, and school of education courses at Louisiana Christian University and for outreach initiative for K-12 educators in CENLA	Computer and Information Sciences	\$66,000
029ENH-23	Prof. Jacob Wittkopp	Louisiana Christian University	Enhancement of Functional, Safe, and Collegiate-caliber Performance Environment through Replacement of Acoustical Shell & Risers	Arts	\$86,315
030ENH-23	Prof. Roberto Fritsche Neto	Louisiana State University Agricultural Center	Improving rice breeding, productivity, and sustainability in Louisiana via remote sense-based models	Earth and Environmental Sciences	\$197,850
031ENH-23	Dr. Joan King	Louisiana State University Agricultural Center	Differential Scanning Calorimeter [DSC] Equipment for Research on Ingredient Testing and Development	Chemistry	\$54,270
032ENH-23	Dr. Jesse Allison	Louisiana State University and A & M College	Immersive Sound in XR Studio Production	Arts	\$151,297
033ENH-23	Dr. Kanchan Maiti	Louisiana State University and A & M College	Acquisition of an in situ mass spectrometer to understand natural and anthropogenic carbon sources	Earth and Environmental Sciences	\$97,363
034ENH-23	Dr. Michael Mamp	Louisiana State University and A & M College	Fashion and Textile Artifact Acquisition and Storage Enhancement of the LSU Textile and Costume Museum	Arts	\$199,079
035ENH-23	Prof. Kevin McPeak	Louisiana State University and A & M College	Plasma-Enhanced Chemical Vapor Deposition for Research and Education at Louisiana State University	Engineering A (Chemical, Civil, Electrical)	\$185,503
036ENH-23	Dr. Xiangyu Meng	Louisiana State University and A & M College	Building a smart city testbed for research and education on connected and autonomous electric vehicles	Engineering A (Chemical, Civil, Electrical)	\$199,740
037ENH-23	Dr. Paul Mooney	Louisiana State University and A & M College	High-Leverage Practice [HLP] Video: Board of Regents Targeted Enhancement	Education	\$199,604
038ENH-23	Prof. Mario Rivera	Louisiana State University and A & M College	A new multi-flow liquid chromatography system for state-of-the-art LC-MS/MS proteomics research	Chemistry	\$94,093
039ENH-23	Dr. Amitava Roy	Louisiana State University and A & M College	Micro-X-ray Absorption Spectroscopy and Operando X-Ray Diffractometry with Synchrotron Radiation	Engineering A (Chemical, Civil, Electrical)	\$104,689



**Proposals Submitted to the Departmental Enhancement Program - Targeted  
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<b>Proposal Number</b>	<b>PI Name</b>	<b>Institution</b>	<b>Project Title</b>	<b>Primary Discipline</b>	<b>Amount Requested</b>
040ENH-23	Dr. Carol Wilson	Louisiana State University and A & M College	Improving coastal restoration research and education capabilities through the acquisition of state-of-the-art Cryostat Coolers for gamma spectroscopy	Earth and Environmental Sciences	\$147,624
041ENH-23	Dr. Sabei Xia	Louisiana State University and A & M College	Enhance Small Business Entrepreneurship in Wearable Technology with the Support of a Thermal and Sweating Manikin	Business	\$200,000
042ENH-23	Dr. Xiangwei Zhou	Louisiana State University and A & M College	5G Broadband Wireless Access Testbed for Mobile Edge Computing Enabled Research, Education and Public Services	Engineering A (Chemical, Civil, Electrical)	\$200,000
043ENH-23	Dr. Amy Erickson	Louisiana State University in Shreveport	Enhancement of Environmental Science Equipment at LSUS	Earth and Environmental Sciences	\$84,753
044ENH-23	Dr. Shaurav Alam	Louisiana Tech University	Targeted Enhancement and Upgradation of Civil Engineering Structural Lab	Engineering A (Chemical, Civil, Electrical)	\$180,000
045ENH-23	Prof. Elisabeth Maria Fatila	Louisiana Tech University	Enhancing Research, Education and Training in Chemistry, Physics and Engineering at Louisiana Tech Through Complementary Infrared and Raman Spectroscopy	Chemistry	\$109,983
046ENH-23	Dr. William Glisson	Louisiana Tech University	Hybrid Compute Plane [HCP]	Computer and Information Sciences	\$199,850
047ENH-23	Dr. Kathleen Heiden	Louisiana Tech University	Plaid to Profession	Business	\$199,110
048ENH-23	Prof. Daniela Mainardi	Louisiana Tech University	Virtual Reality and Molecular Modeling in Chemical Engineering Education	Engineering A (Chemical, Civil, Electrical)	\$97,377
049ENH-23	Dr. Lingxiao Wang	Louisiana Tech University	Automatic Control Laboratory Enhancement	Engineering A (Chemical, Civil, Electrical)	\$132,316
050ENH-23	Prof. Shengnian Wang	Louisiana Tech University	Enhancing Nanomaterial Research and Education with a coupled TGA-GC/MS System	Engineering A (Chemical, Civil, Electrical)	\$103,898
051ENH-23	Dr. Kevin Du Clos	Louisiana Universities Marine Consortium	Enhancement of biological imaging capacities for research, education, and harmful algal bloom monitoring at Louisiana Universities Marine Consortium's DeFelice Marine Center and Houma Maritime campus	Earth and Environmental Sciences	\$119,422
052ENH-23	Dr. Craig Hood	Loyola University New Orleans	Multidisciplinary Enhancement of Geospatial Tools for GIS, Mapping and Data Visualization at Loyola University New Orleans	Earth and Environmental Sciences	\$101,573
053ENH-23	Dr. Ralph Tucci	Loyola University New Orleans	Equipment to Enhance the Study of Deep Learning	Computer and Information Sciences	\$73,487
054ENH-23	Dr. Shuming Bai	McNeese State University	Development of a Liquefied Natural Gas Experiential Learning Lab for Business Applications	Business	\$176,741
055ENH-23	Dr. Firouz Rosti	McNeese State University	Enhancement of the Civil Engineering Labs at McNeese State University	Engineering A (Chemical, Civil, Electrical)	\$73,766

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2022-23 Review Cycle**

<b>Proposal Number</b>	<b>PI Name</b>	<b>Institution</b>	<b>Project Title</b>	<b>Primary Discipline</b>	<b>Amount Requested</b>
056ENH-23	Dr. Bei Xie	McNeese State University	Enhancement of Engineering Laboratories at McNeese for Networking and Communication Systems	Engineering A (Chemical, Civil, Electrical)	\$116,794
057ENH-23	Miss. Marjan Khatibi	Nicholls State University	Digital Media, Animation, and Virtual Reality Lab Enhancement	Arts	\$127,261
058ENH-23	Dr. Gary LaFleur, Jr	Nicholls State University	Enabling Digital Access for 3 High-Impact Remote Sites at Nicholls	Earth and Environmental Sciences	\$195,000
059ENH-23	Dr. Stephanie Merrell	Nicholls State University	Creating a Modern, Technologically Advanced, and Multi-Purpose Learning Environment	Business	\$120,411
060ENH-23	Dr. Balaji Ramachandran	Nicholls State University	Upgrade of High Performance Geospatial Computing Lab and acquire field equipment to supplement ongoing Uncrewed Aerial Systems [UAS] research efforts.	Engineering A (Chemical, Civil, Electrical)	\$181,763
061ENH-23	Dr. Luciana Soares	Nicholls State University	Piano Lab A/V Enhancements	Arts	\$17,073
062ENH-23	Dr. Ke Wang	Nicholls State University	Unchoking the Pipeline of Secondary Mathematics Teachers	Education	\$115,978
063ENH-23	Mr. Jonathan Clayton	Northwestern State University	Developing an Comprehensive Lens-Based Program at NSULA	Arts	\$175,312
064ENH-23	Dr. Rafiqul Islam	Northwestern State University	Development of Control Systems Labs Emphasizing on Electric Motor Control Lab	Engineering A (Chemical, Civil, Electrical)	\$99,916
065ENH-23	Prof. Andy Killion	Northwestern State University	CAPA Lighting Enhancement	Arts	\$199,584
066ENH-23	Dr. Vianka Miranda	Northwestern State University	Transforming Educational Spaces: Installing An Active Learning Classroom in the School of Business	Business	\$132,156
067ENH-23	Dr. John Price	Northwestern State University	Enhancement of Group Piano Instruction using Updated Technology	Arts	\$83,139
068ENH-23	Dr. Mary Reeves	Northwestern State University	IPencil Me In: Enhancing Mathematics Teaching and Learning Through Technology, Inclusion, and Equity	Mathematics	\$107,437
069ENH-23	Dr. Chad Thibodeaux	Northwestern State University	The Acquisition of an ICP-MS to Enhance the Analytical Capabilities of the Physical Science Department	Chemistry	\$177,725
070ENH-23	Prof. Lily Brooks	Southeastern Louisiana University	Photography + Digital Foundations Studio	Arts	\$58,493
071ENH-23	Dr. Jean Fotie	Southeastern Louisiana University	Acquisition of a Gas Chromatograph-Mass Spectrometer [GC-MS] to Advance Undergraduate Education and Research at Southeastern Louisiana University	Chemistry	\$88,046
072ENH-23	Dr. Lisa Kuhn	Southeastern Louisiana University	Linux Servers for Science Majors: Promoting Computing Literacy	Mathematics	\$104,334
073ENH-23	Dr. Ephraim Massawe	Southeastern Louisiana University	Infrastructure Enhancement to Promote Student Engagement in Research on Technical Evaluation of PPEs to Prevent Exposure to Covid-19 Viruses in Colleges and Other Workplaces	Engineering A (Chemical, Civil, Electrical)	\$88,463
074ENH-23	Dr. Chasse Duplantis	Southern University and A&M College - Baton Rouge	Enhancement of Methods and Applied Courses through the Procurement of Musical Instruments	Arts	\$129,327
075ENH-23	Dr. Bonny McDonald	Southern University and A&M College - Baton Rouge	Frank Hayden Theater Rigging System Renewal: Reopening an Interdisciplinary Performance Space	Arts	\$106,965

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2022-23 Review Cycle**

<b>Proposal Number</b>	<b>PI Name</b>	<b>Institution</b>	<b>Project Title</b>	<b>Primary Discipline</b>	<b>Amount Requested</b>
076ENH-23	Dr. Chiqian Zhang	Southern University and A&M College - Baton Rouge	Constructing an Environmental Microbiology and Biotechnology Laboratory to Augment the Research and Education in the Department of Civil and Environmental Engineering at SUBR	Engineering A (Chemical, Civil, Electrical)	\$199,953
077ENH-23	Dr. Daniel Bernstein	Tulane University	Algebraic structures in statistics and differential equations	Mathematics	\$199,804
078ENH-23	Prof. Noshir Pesika	Tulane University	Acquisition of a Universal Materials tester to Enhance Materials Research at Tulane	Engineering A (Chemical, Civil, Electrical)	\$168,000
079ENH-23	Dr. Rick Snow	Tulane University	Interactive and Immersive Resources for the Arts Departments and the Digital Media Practices Program at Tulane University	Arts	\$199,940
080ENH-23	Dr. Mohsen Amini Salehi	University of Louisiana at Lafayette	Extended Reality Edge-Cloud to Enhance Research, Education, and Outreach	Computer and Information Sciences	\$101,040
081ENH-23	Dr. DILIP DEPAN	University of Louisiana at Lafayette	Acquisition of atomic force microscope to enhance education and research on advanced materials	Engineering A (Chemical, Civil, Electrical)	\$200,000
082ENH-23	Dr. Nathan Dolenc	University of Louisiana at Lafayette	Continuing to Improve Teacher Preparation Through Collaborative Learning Spaces	Education	\$125,817
083ENH-23	Dr. Farzad Ferdowsi	University of Louisiana at Lafayette	Advanced Simulation and Computing Testbed to Enhance Research in Smart Grids	Engineering A (Chemical, Civil, Electrical)	\$199,279
084ENH-23	Dr. Tori Flint	University of Louisiana at Lafayette	Supporting Learning and Instruction with Multilingual Literacies Kits	Education	\$53,643
085ENH-23	Prof. Thomas Junk	University of Louisiana at Lafayette	Acquisition of a High Pressure Liquid Chromatograph [HPLC] for the Department of Chemistry at UL Lafayette	Chemistry	\$85,730
086ENH-23	Dr. Mohammad Khattak	University of Louisiana at Lafayette	Enhancement of Fatigue and Rutting Capabilities of Infrastructural and Materials Laboratory	Engineering A (Chemical, Civil, Electrical)	\$159,461
087ENH-23	Dr. Kathleen Knierim	University of Louisiana at Lafayette	Integrating Thermal Analysis in Graduate and Undergraduate Chemistry Curricula	Chemistry	\$73,617
088ENH-23	Dr. Arun Kulshreshth	University of Louisiana at Lafayette	Equipment for Affective Computing Research for Virtual Reality Applications, Education, and Outreach	Computer and Information Sciences	\$103,661
089ENH-23	Dr. Kelly Robinson	University of Louisiana at Lafayette	Modernization of the UL Lafayette seawater system	Earth and Environmental Sciences	\$102,161
090ENH-23	Dr. Shuichi Sato	University of Louisiana at Lafayette	Upgrading kinesiology lab equipment to enhance students' learning outcomes	Education	\$155,929
091ENH-23	Dr. Leigh Tolley	University of Louisiana at Lafayette	Utilizing Mentor Teacher Expertise to Support Teacher Retention in Louisiana	Education	\$77,103
092ENH-23	Prof. Wu Xu	University of Louisiana at Lafayette	Dynamic protein interactions during transcription: synergistic efforts between UL Lafayette and Tulane University	Chemistry	\$87,008
093ENH-23	Dr. Heath Barnett	University of Louisiana at Monroe	Integrating Additive Manufacturing into the Chemistry and Biology Curriculum	Chemistry	\$111,418
094ENH-23	Prof. Khalid El Sayed	University of Louisiana at Monroe	Enhancement of ULM chemical and pharmaceutical research by a 9.4T NMR spectrometer	Chemistry	\$200,000

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2022-23 Review Cycle**

<b>Proposal Number</b>	<b>PI Name</b>	<b>Institution</b>	<b>Project Title</b>	<b>Primary Discipline</b>	<b>Amount Requested</b>
095ENH-23	Mr. John Herrock	University of Louisiana at Monroe	Industrial Hygiene Teaching Laboratory Equipment Enhancement	Earth and Environmental Sciences	\$45,046
096ENH-23	Dr. Todd Murphy	University of Louisiana at Monroe	Acquisition of a LiDAR Ceilometer for Atmospheric Science Research and Education	Earth and Environmental Sciences	\$51,252
097ENH-23	Dr. Allen Parrish	University of Louisiana at Monroe	Multi-faceted Facility and Technology Update for the Performing Arts at University of Louisiana at Monroe	Arts	\$190,510
098ENH-23	Dr. Sandy Watson	University of Louisiana at Monroe	ULM Science Education Enhancement Program [SEEP]	Education	\$97,800
099ENH-23	Dr. Sandy Watson	University of Louisiana at Monroe	ULM Science, Mathematics, and Assistive Technology [SciMAT] Laboratory	Education	\$153,384
100ENH-23	Dr. Marc Bonis	University of New Orleans	Enhanced Health Science Lab	Education	\$89,774
101ENH-23	Prof. Ariya Martin	University of New Orleans	Department of Fine Arts Enhancement to Digital and Analog Visual Media	Arts	\$106,131
102ENH-23	Prof. Mark Quinn	Xavier University	Division of Business Smart Classroom	Business	\$55,258

Total Proposals Submitted	81
Total Funds Requested	\$10,113,127

# APPENDIX B

# Departmental Enhancement Rating Form

## Goals/Objectives (10 Points) \_\_\_\_\_

-To what degree are the goals clearly stated, reasonable, achievable, and related to the mission statement of the academic unit? To what degree are the objectives measurable and related to the goals?

## Work Plan (20 Points) \_\_\_\_\_

-To what degree does the proposal establish a compelling timeline for grant activities with a clear delineation of which team member is responsible for each task? To what degree does the work plan clearly establish the necessary tasks for achieving the project goals and objectives?

## Impact (30 points) \_\_\_\_\_

-How does the project affect the academic unit's faculty, students, infrastructure, curriculum, research capacity, recruitment, retention, etc. (as well as related academic units, the institution overall, the local community and the State if applicable)? To what degree is this impact related to the unit's near- and long-term priorities as stated in the mission statement?

## Evaluation (10 Points) \_\_\_\_\_

-To what degree is a plan established for evaluating the impact of the project with criteria based on specific metrics?

## Sustainability (10 Points) \_\_\_\_\_

-To what degree are the goals, impact, and individual budget requests sustainable beyond the life of the grant? To what degree are maintenance or sustainability plans established for equipment, software, supplies, as well as funds dedicated to staff, faculty, and graduate students?

**Investigators (10 Points)** \_\_\_\_\_

-To what degree do the team members appear capable of implementing the work plan?

**Budget 10 Points** \_\_\_\_\_

-To what degree is the budget efficiently crafted to maximize the project's impact? To what degree does the budget justification clearly explain the relationship of each individual request to the proposal's impact, goals, and work plan?

**Total Score** (out of 100) \_\_\_\_\_

**OVERALL RATING OF PROPOSAL**

POOR	FAIR	GOOD	VERY GOOD	EXCELLENT
_____	_____	_____	_____	_____

Total Funding Recommended: \_\_\_\_\_

Funding Stipulations (if any):