

REPORT TO THE LOUISIANA BOARD OF REGENTS

**ENHANCEMENT COMPONENT
OF THE BOARD OF REGENTS SUPPORT FUND**

**DEPARTMENTAL ENHANCEMENT SUBPROGRAM
COMPREHENSIVE AND TARGETED**

FY 2023-24 COMPETITION

March 2024



REPORT OF THE FINAL PANEL
BOARD OF REGENTS SUPPORT FUND
DEPARTMENTAL ENHANCEMENT PROGRAM
FY 2023-24

BACKGROUND INFORMATION

One hundred one (101) proposals requesting a total of \$15,858,025 in first-year funds were submitted for funding consideration in fiscal year (FY) 2023-24 to the Departmental Enhancement Program of the Board of Regents Support Fund (BoRSF). Nine disciplines were eligible, including Agricultural Sciences, Astronomy, Biological Sciences, Health and Medical Sciences, Humanities, Engineering B, Physics, Social Sciences, and Targeted Workforce.

As described in the 2023-24 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-five (25) Comprehensive Enhancement proposals and seventy-six (76) 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

Submitted proposals 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. Joseph Quansah from the Department of Agricultural and Environmental Sciences at Tuskegee University.

After careful consideration of all panel reports during March of 2024, the final panel chair highly recommended for funding three (3) Comprehensive Enhancement proposals for a total of \$787,082 in first-year funds, and twenty-one (21) Targeted Enhancement proposals for a total of \$2,515,993 in first-year funds, based on monies projected to be available. Overall, twenty-four (24) Departmental Enhancement proposals are recommended for total support of \$3,303,075 in first-

year funds. For the three (3) Comprehensive Enhancement proposals highly recommended for funding, a total of \$2,353,608 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 seven (7) 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 2024, 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 2023-24 Departmental Enhancement
Proposals Highly Recommended for Funding

Rank	Proposal #	Institution	Discipline	Type	1st Year	1st Year
					Request	Recommendation
1	041ENH-24	LSU-AG	Agricultural Sciences	Targeted	\$58,160	\$58,160
1	023ENH-24	UNO	Biological Sciences	Comprehensive	\$213,509	\$213,509
1	021ENH-24	ULL	Engineering B	Comprehensive	\$296,077	\$296,077
1	007ENH-24	LSUHSCNO	Health & Medical Sciences	Comprehensive	\$277,496	\$277,496
1	078ENH-24	SU A&M	Humanities	Targeted	\$124,765	\$124,765
1	051ENH-24	LA Tech	Physics	Targeted	\$67,357	\$67,357
1	064ENH-24	McNeese	Health & Medical Sciences	Targeted	\$194,900	\$144,500
8	039ENH-24	LSU-AG	Agricultural Sciences	Targeted	\$50,000	\$50,000
8	056ENH-24	LA Tech	Astronomy	Targeted	\$56,857	\$56,857
8	077ENH-24	SU A&M	Biological Sciences	Targeted	\$119,516	\$119,516
8	058ENH-24	LA Tech	Health & Medical Sciences	Targeted	\$122,632	\$122,632
8	071ENH-24	SLU	Health & Medical Sciences	Targeted	\$200,000	\$200,000
8	073ENH-24	SLU	Humanities	Targeted	\$86,929	\$86,929
8	074ENH-24	SLU	Social Sciences	Targeted	\$114,919	\$114,919
15	043ENH-24	LSU-AG	Agricultural Sciences	Targeted	\$197,440	\$197,440
15	059ENH-24	Loyola	Biological Sciences	Targeted	\$199,907	\$199,907
15	070ENH-24	SLU	Engineering B	Targeted	\$141,775	\$141,775
15	048ENH-24	LSU A&M	Health & Medical Sciences	Targeted	\$199,798	\$199,798
15	099ENH-24	UNO	Social Sciences	Targeted	\$191,358	\$147,183
20	067ENH-24	Nicholls	Biological Sciences	Targeted	\$30,816	\$30,816
20	062ENH-24	McNeese	Engineering B	Targeted	\$195,915	\$195,915
20	095ENH-24	ULM	Health & Medical Sciences	Targeted	\$156,488	\$156,488
20	089ENH-24	ULL	Social Sciences	Targeted	\$106,925	\$70,086
24	097ENH-24	ULM	Social Sciences	Targeted	\$30,950	\$30,950
					\$3,434,489	\$3,303,075

Table II

FY 2023-24 Departmental Enhancement Panels		
Name	Institution	Discipline
Final Panel Chair		
Joseph Quansah	Tuskegee University	Agricultural Engineering
Ag Sciences		
Joseph Quansah, chair	Tuskegee University	Agricultural Engineering
Harold Trick	Kansas State University	Plant Pathology
Humanities		
Dawn Bratsch-Prince, chair	Iowa State University	Foreign Languages
Samantha Cantrell	Vanderbilt University	Literature/Grants officer
Health & Medical		
Gerry Sonnenfeld, chair	University of Rhode Island	Toxicology
Elizabeth Gazza	University of North Carolina-Wilmington	Nursing
Richard Pollard	University of California-Davis	Infectious Diseases
Biological Sciences		
Paras Mishra, chair	University of Nebraska-Medical Center	Physiology
William Holland	University of Utah	Biochemistry
Manoj Mishra	Alabama State University	Biology/Oncology
Social Sciences		
Wendy Troop-Gordon, chair	Auburn University	Psychology
Anna Lee	North Carolina A&T University	Psychology
Young-A Lee	Auburn University	Apparel Design
Sunidhi Mehta	West Virginia University	Apparel Design
Aashish Kumar	Hofstra University	TV Production
Douglas Ferguson	College of Charleston	TV Production
Engineering B		
Prahalada Rao, chair	Virginia Tech University	Industrial/Materials
Caroline Hayes	Iowa State University	Mechanical
Pradeep Menezes	University of Nevada-Reno	Mechanical/Materials
Physics & Astronomy		
Pradip K. Bandyopadhyay, chair	Penn State University-Berks	Condensed Matter
Maxim Sukharev	Arizona State University	Light Physics
Kyle Dawson	University of Utah	Astronomy
Stephen Tegler	Northern Arizona University	Observatory Director

FY 2023-24 Departmental Enhancement Proposals Highly Recommended for Funding

Rank	1
Proposal #	041ENH-24 (Agricultural Sciences)
Institution	Louisiana State University Agricultural Center
Title	Updating DSC Instrumentation for Teaching, Research and Outreach
Requested	\$58,160
Recommended	\$58,160

LSU AgCenter seeks to obtain a Differential Scanning Calorimeter (DSC) to replace an older version, which is obsolete. This unit will provide researchers with state-of-the-art analysis equipment as well as hands-on student training in essential high-tech analysis techniques, which will improve job preparation. The stated goals are related to the mission of the institution. The timeline for installation and implementation into courses and graduate research projects is clearly laid out. The impact of the equipment on research, research capacity, education, faculty development and economic development is well presented. The evaluation plan provided includes metrics for students taught, grant applications, and manuscripts presented. The case for sustainability is strong and supported by the School of Nutrition and Food Sciences' preservation of the previous unit for over 20 years before it became outdated. A maintenance plan is clearly presented and includes a commitment to software updates. The PI is highly capable and qualified to implement the work plan. The budget justification is clear. Full funding is recommended.

Rank	1
Proposal #	23ENH-24 (Biological Sciences)
Institution	University of New Orleans
Title	DCC-UNO Partnership to Enhance Transfer Student Success in Biology
Requested	Year 1: \$213,509; Y2: \$186,051; Y3: \$57,792; Y4: \$44,628; Y5: \$51,386
Recommended	Year 1: \$213,509; Y2: \$186,051; Y3: \$57,792; Y4: \$44,628; Y5: \$51,386

The applicants seek to establish a partnership with Delgado Community College to create a pathway for students in Biology to transfer and then succeed in a four-year program at the University of New Orleans. This is an outstanding proposal that presents a clear and strategic plan aligned with both institutions' missions. The objectives are not only clearly defined but are also pragmatic and resonate with the department's commitment to providing comprehensive education in biology and conducting meaningful research. The plan is both innovative and necessary, targeting a pivotal aspect of academic transition. The detailed work plan, which includes the development of student-focused, program-specific pathways, shows promise to mitigate the loss of credits during the transfer process. The proposed long-term goal to expand these practices university-wide is ambitious and reflects strategic, institution-wide and multi-institutional perspectives.

The work plan outlines clear roles and responsibilities among the PI, Co-PI, and partners. The collaborative approach, drawing on diverse stakeholder engagement, is a strong aspect of the

proposal. The project's foundation on successful precedents from Virginia, New Jersey, and the locally implemented HHMI-funded STEM scholars camp is a sensible approach. The institutional support is evident through letters from senior administrators, which augurs well for the project's successful implementation. The proposal's projected impact is noteworthy. The anticipated benefits extend well beyond Biology programs, suggesting that the practices developed could serve as a template for other majors and transfer programs. The focus on enhancing resources and skills for DCC and UNO students is particularly laudable. The targeted inclusion of first-generation college students and individuals from disadvantaged backgrounds aligns with national directives and the critical need for diversity across the STEM workforce. The potential impacts of this project are thus both immediate and far-reaching. The robust evaluation plan will be entrusted to a reputable firm and will ensure objectivity and reliability. Full funding is recommended.

Rank	1
Proposal #	021ENH-24 (Engineering B)
Institution	University of Louisiana at Lafayette
Title	Enhancement of Materials Multiscale Mechanical Testing Capacity of College of Engineering
Requested	Year 1: \$296,077; Y2: \$185,682; Y3: \$171,221; Y4: \$180,530; Y5: \$166,444
Recommended	Year 1: \$296,077; Y2: \$185,682; Y3: \$171,221; Y4: \$180,530; Y5: \$166,444

This proposal aims to enhance multiscale mechanical testing capabilities to support research and educational activities at the University of Louisiana at Lafayette through the acquisition of the state-of-the-art nano- to micro-scale materials testing systems. The equipment now on hand is either lacking or outdated, with no customer support available. The project promotes collaboration with other research and academic units across ULL. The unique instrumental facility will also enhance research collaborations with other universities, national research laboratories, institutes, and private industry. This is a well-written proposal. The objectives are clearly stated and bold. The impact of the proposal is very consequential in the research arena, and the equipment to be purchased will be utilized across an extensive array of courses. The investigators may want to consider starting the process of integration into the curriculum in earlier years, incrementally, as each piece of equipment is installed. A sustainability plan is in place and the evaluation plan is well described. The research team has an excellent funding record over the past five years. There is a substantial institutional as well as industry matching, which speaks to the strategic importance of these acquisitions. Full funding is recommended.

Rank	1
Proposal #	007ENH-24 (Health & Medical Sciences)
Institution	Louisiana State University Health Sciences Center-New Orleans
Title	A Healthier Louisiana Population with a Workforce Addressing the Structural and Emergent Issues Affecting Public Health
Requested	Year 1: \$277,496; Y2: \$156,948; Y3: \$121,948; Y4: \$121,948; Y5: \$121,948
Recommended	Year 1: \$277,496; Y2: \$156,948; Y3: \$121,948; Y4: \$121,948; Y5: \$121,948

This project will help the Louisiana State University Health Sciences Center – New Orleans significantly enhance educational capacity in its School of Public Health (SPH). The project is clearly linked to the mission of the SPH. The operational goal is to give students practical skills in population health, environmental monitoring, and data analysis to increase their marketability and impact as public health professionals. The project is designed to increase resources available to students, including new courses, additional laboratory and analytical equipment and software, and supplies for one shared-space training lab and the Public Health Analytic Center. This project could have far-reaching public health impacts for Louisiana by graduating more skilled professionals in the field, addressing population health, and improving responses to both natural and anthropogenic disasters. It also aims to develop a workforce of public health researchers who are focused on serving marginalized communities, which are more vulnerable to adverse impacts from disasters and hazards. The stated objectives are measurable and closely related to project goals. The project will have significant impact on the SPH faculty, students, infrastructure, curriculum, and recruitment. The budget is appropriate and clearly linked to the goals, objectives, and work plan. Full funding is recommended.

Rank	1
Proposal #	078ENH-24 (Humanities)
Institution	Southern University and A&M College
Title	Humanities for the 21st Century: Creating a Writing Makerspace and Library in the English and Philosophy Department at Southern University
Requested	\$124,765
Recommended	\$124,765

The applicants propose to enhance curricula, student experiences, and workforce preparedness through the creation of a Writer's Makerspace and Library by retrofitting an existing classroom space to provide students with hands-on experience using multiple technologies in producing creative pieces of writing/communication. These goals are clearly stated and align neatly with the mission and goals of the department. The makerspace concept is innovative and provides today's students with both a physical place and technology tools to create and express themselves. This technology is typically seen in institutions' STEM departments/units, so the humanities focus of this proposal is unique and exciting. The requested funds will be used to refurbish the selected space and purchase technology, library resources, and furniture. The well-written work plan specifies which team member is responsible for each activity and includes a compelling timeline for each project step. The timeline is logical, and the goals are achievable. The proposed space will

be a modern and attractive site that will draw students from across disciplines. Increased student engagement may lead to more interest in humanities curricula and higher enrollments. The impact is likely to be significant, providing an innovative student-centric resource at an under-resourced institution. The proposal includes a detailed evaluation plan and metrics for assessing the impact of project activities. The team members are highly qualified and capable of carrying out the proposed activities. The budget is clearly justified and aligns with the work plan. Full funding is recommended.

Rank	1
Proposal #	051ENH-24 (Physics)
Institution	Louisiana Tech University
Title	Enhancing Research Infrastructure at the Center for Applied Physics Studies [CAPS]: Acquisition of Equipment for Quantifying Light Yields and Fluorescence Lifetimes
Requested	\$67,357
Recommended	\$67,357

The applicants seek to enhance research infrastructure at the Center for Applied Physics Studies (CAPS) at Louisiana Tech through the acquisition of equipment for quantifying light yields and fluorescence lifetimes. The proposal is of excellent quality in all areas of assessment. Acquisition of the requested equipment will significantly improve the CAPS research infrastructure currently in place. The goals and objectives resonate strongly with the Unit Mission Statement. The clarity with which these goals are articulated, coupled with their practical feasibility, highlights the project's strategic approach. Each aspect of the evaluation plan is not only precisely defined but is also accompanied by measurable outcomes that allow for the objective assessment of the project's impact. The PI and the team members are extremely competent to implement the work plan. The work plan and budget are clearly linked with project and the objectives and the funds requested are fully justified. The impact on research infrastructure has been outlined effectively, with measurable outcomes. Full funding is recommended.

Rank	1
Proposal #	064ENH-24 (Health & Medical Sciences)
Institution	McNeese State University
Title	Interdisciplinary Enhancement in Behavioral Health Education: Advanced Technology in Counseling and Applied Behavior Analysis
Requested	\$194,900
Recommended	\$144,500

This project seeks funding for virtual reality software and supporting hardware to be used in the training of students across McNeese's Psychology, Counseling and Nursing programs. The applicants have provided a clear rationale for the proposed project. The goals are highly achievable and have observable outputs that can be used to evaluate whether goals have been reached. This project will positively impact faculty, students, and clinical programs. The technology can be adopted readily into a large number of courses. The availability of the software will increase the

units' likelihood of further accreditation and successful recruitment of students and faculty. The target beneficiaries are future health professionals who will be trained to serve an area of Louisiana identified as having a shortage of health professionals. An extensive evaluation plan that builds upon existing assessment procedures is presented. Concrete criteria are provided to determine the impact and efficacy of the technology. It is anticipated that the project will be sustained by absorbing costs into clinical budgets. The applicants are well suited for implementing the project. In the budget justification, the need for graduate assistants and undergraduate workers is specified despite being a large item in the request. Some budgeted items appear to be outside the scope of this project. Funding is not recommended for the unbound DSM-5 or the scheduling software. The project overall will have an important impact, and partial funding of \$144,500 is recommended.

Rank	8
Proposal #	039ENH-24 (Agricultural Sciences)
Institution	Louisiana State University Agricultural Center
Title	Enhancing the Central Analytical Laboratory and Audubon Laboratory Services to Serve the Louisiana Sugar Industry
Requested	\$50,000
Recommended	\$50,000

The applicants seek to acquire a new polarimetry and refractometric instrument to enhance the Audubon Central Laboratory and ASI services to improve research capacity for faculty, students, and industry. There is currently only one 20-year-old, failing polarimeter available to undertake all analyses and training. The new equipment will allow the LSU AgCenter to maintain and expand current work, which is vital to student training, faculty development, and the Louisiana economy. The goals and objectives are achievable and in line with the institutional mission. The work plan is clearly defined. Key personnel to be trained in operation and maintenance of the instrument have been identified. The impact will be broad and the evaluation plan is appropriate. The research team is well qualified and fully capable of implementing the work plan. Full funding is recommended.

Rank	8
Proposal #	056ENH-24 (Astronomy)
Institution	Louisiana Tech University
Title	Enhancement Proposal for the Louisiana Tech University Astronomical Observatory
Requested	\$56,857
Recommended	\$56,857

The applicants propose to upgrade Louisiana Tech's Astronomical Observatory main telescope's optical system and replace the CCD camera system to improve education and research opportunities for undergraduates. The goals are reasonable and achievable in a one-year timeframe. These upgrades, combined with recent facility repairs, will allow the relaunch of the undergraduate research program, which ceased operation due to damage from multiple storms, along with the pandemic. The new equipment will expand the current capacity for student engagement. The proposal clearly links the project with the department's mission statement. The work plan clearly delineates tasks among faculty participants. The PIs have a sustainability plan,

as well as the experience and ability to complete the work plan. The budget is very reasonable. Full funding is recommended.

Rank	8
Proposal #	077ENH-24 (Biological Sciences)
Institution	Southern University and A&M College
Title	Technology Enhancement for Human Anatomy and Physiology Course Instruction at Southern University and A&M College [SUBR]
Requested	\$119,516
Recommended	\$119,516

The applicants aim to significantly enhance SUBR's Department of Biology and Chemistry by integrating 16 iWorx physiology data recording units into its programs. Overall, this is an excellent proposal. The initiative directly supports institutional and departmental priorities. The activities are clearly laid out with appropriate timelines. The new units will enable students to gain hands-on experiences, including conducting data analysis and participating in outreach activities with high school students. The number of students impacted is large. The curriculum enhancement will improve workforce training in a high-need area, while outreach efforts will increase recruitment. A detailed evaluation plan is in place. The investigators form a strong team, bringing appropriate and varied expertise. The budget is well justified, with institutional matching funds to ensure the project's sustainability and impact beyond the life of the grant. The project stands to significantly contribute to educational and research capabilities, as well as workforce needs in the state. Full funding is recommended.

Rank	8
Proposal #	058ENH-24 (Health & Medical Sciences)
Institution	Louisiana Tech University
Title	Enhancing Biomedical Research and Education with an Ultracentrifugation System
Requested	\$122,632
Recommended	\$122,632

The applicants seek to acquire an ultracentrifugation system to support and enhance biomedical engineering research and training. No similar system is available at the institution or in neighboring areas. This equipment will greatly enhance education, research, and training opportunities in North Louisiana, where there are currently deficits of healthcare professionals, technology, and services. Project goals and objectives are clearly stated, reasonable, measurable, and linked. The proposed work plan is straightforward and addresses all tasks needed to complete the project. The evaluation plan provides sufficient forms of quantifiable assessment to measure the full impact of the project. The PIs are very capable. The budget is well crafted to maximize the project's impact and supports its goals and work plan. Full funding is recommended.

Rank	8
Proposal #	071ENH-24 (Health & Medical Sciences)
Institution	Southeastern Louisiana University
Title	Virtual and ICU Nursing Careers through Advanced Learning Simulation [VITALS]
Requested	\$200,000
Recommended	\$200,000

The applicants propose to increase the capacity and quality of nursing education at Southeastern Louisiana University by creating a simulation environment and including related simulation education in coursework to train students in virtual and ICU nursing. While labs at both campuses have spaces that could be converted to offer ICU or virtual nursing simulations, none has the equipment to provide these experiential learning opportunities. Project objectives are clear, specific, measurable, and achievable. The proposed project aligns well with the School of Nursing's mission. Five undergraduate courses will be positively impacted, providing virtual and ICU nursing simulation training to 330 students per year. The project will also enable opportunities for faculty research. Faculty and lab personnel will participate in "train the trainer" model activities for scenario development, better preparing the workforce, addressing the nursing shortage, enhancing existing simulation lab physical facilities, and allowing student interaction between campuses. The budget includes cash and in-kind matches from the institution and a private entity, which support the strategic importance of this project. Full funding is recommended.

Rank	8
Proposal #	073ENH-24 (Humanities)
Institution	Southeastern Louisiana University
Title	Laptops for Student Use in the Southeastern Writing Center
Requested	\$86,929
Recommended	\$86,929

The applicants seek to raise the capacity and profile of the SLU Writing Center by updating technology. The project will allow the Center to increase support for student writing development through consultations, enrichment, and training. The acquisition of laptops and software promises to increase student use of the Center and its services, including tutoring, which translates into benefits for student success and retention, in line with institutional goals. Sponsorship of a Writer's Conference for dual-enrollment students (i.e., high school students taking classes at the university) is a novel effort to ensure that this population of students feels recognized and valued, and will likely contribute to increased recruitment. The enhanced use of technology and writing software in the learning experience is responsive to demand for students with skills transferrable to the workplace. The budget is very reasonable and capitalizes on matching funds committed by the institution to ensure success and sustainability of the project. Full funding is recommended.

Rank	8
Proposal #	074ENH-24 (Social Sciences)
Institution	Southeastern Louisiana University
Title	The Advancement of a Medical and Therapeutic Play Simulation Laboratory to Enhance Students' Therapeutic Communication Skills
Requested	\$114,919
Recommended	\$114,919

This project seeks funds for the creation of a lab to support the training of Child Life specialists who aid children and families going through difficult medical treatments. The space created will allow students in Child Life to practice skills, including developmental and therapeutic medical play, elements from art and bibliotherapy, and the use of innovative technologies such as therapeutic virtual reality systems and robots during healthcare experiences, necessary in the profession and to help the people of Louisiana. Faculty and staff will benefit from the ability to engage in real-life and simulated situations. A very reasonable work plan is presented. The space to be created has the potential to benefit units across campus. A well-justified budget and plan for sustainability are presented. Full funding is recommended.

Rank	15
Proposal #	043ENH-24 (Agricultural Sciences)
Institution	Louisiana State University Agricultural Center
Title	Critical Infrastructure for Agricultural Science: Acquisition of Plant Growth and Dew Chambers for Improved Plant Pathology Research and Education
Requested	\$197,440
Recommended	\$197,440

This proposal seeks funds to purchase three growth chambers and a dew chamber to grow plants in the precise environmental conditions necessary for specific experiments. This equipment will greatly expand capacity for education and research. Project goals are straightforward; objectives are clearly linked and align with the mission of the LSU AgCenter. The work plan is well defined. The equipment acquisition will allow researchers to conduct work necessary for current grants and obtain critical preliminary data for future competitive grants at state and federal levels, as well as assist in classroom laboratories. Past reviews of the department cited the lack of chambers, so this will be an important addition. The evaluation plan is straightforward, assessing productivity based on use of the units in research and education as well as the number of publications, grant proposals, and collaborative activities initiated. User fees will be implemented to pay for maintenance. The panel recommends setting a daily, weekly, or monthly fee, as experiments with plants typically take place over the longer term. It would also be beneficial to charge enough to help with cost replacement. Investigators have the experience to implement the work plan. The budget is well justified. Full funding is recommended.

Rank	15
Proposal #	059ENH-24 (Biological Sciences)
Institution	Loyola University New Orleans
Title	Incucyte S3-a Kinetic, High Throughput, Live Cell Imaging and Analysis System for Enhancing Laboratory Research Experiences over Six Courses and Collaborative Research Projects for Undergraduates
Requested	\$199,907
Recommended	\$199,907

The proposal seeks the acquisition of a semi-automated, live cell imaging and analysis system (Incucyte S3) to enhance research, education, workforce development, and recruiting at Loyola. Overall, this is an excellent proposal. The goals are well defined, achievable, and aligned with the institution's mission. The project's integration of high-content imaging analysis will significantly enhance 2D and 3D cell culture experiments, addressing existing microscopy limitations and augmenting experimental outcomes. The benefits of the equipment, including ease of use and capacity to allow simultaneous, multiplex experiments, are well articulated. The detailed work plan, organized around three key objectives with specific timelines, showcases a strategic approach to leveraging the equipment's potential across training, research, and academic courses. This plan is poised to enrich the curriculum, facilitate interdisciplinary research, and prepare students for advanced studies or careers in the life sciences, promising a transformative impact on undergraduate research quality and the institution's academic reputation. Sustainability and budget efficiency are thoughtfully addressed, with a clear strategy for the system's maintenance and integration into teaching and research beyond the grant's lifespan. Financial support mechanisms are earmarked for ongoing maintenance, ensuring long-term viability. The budget, meticulously crafted with detailed justifications and quotes, underscores the proposal's strategic financial planning, aimed at maximizing the project's impact and with a clear link to its objectives and anticipated outcomes. Full funding is recommended.

Rank	15
Proposal #	070ENH-24 (Engineering B)
Institution	Southeastern Louisiana University
Title	Enhancing the Prototyping, Manufacturing, and Testing Infrastructure at Southeastern
Requested	\$141,775
Recommended	\$141,775

This proposal seeks equipment to create the new Prototyping, Manufacturing, and Testing Lab to support Southeastern's Industrial Technology and Engineering Technology programs. The acquisitions will increase students' hands-on exposure to advanced manufacturing in their education and will provide better-prepared graduates for the advanced manufacturing workforce, which is a growing need in the southeastern Louisiana economy. It will also help the program to recruit excellent students and will place faculty in a more competitive position to win advanced manufacturing research funding. Project objectives are clearly stated. A detailed work plan is presented, including a timeline with milestones and delegated responsibilities. The evaluation plan

includes a wide variety of detailed metrics. The equipment will impact 13 courses and facilitate development for ten faculty members. Maintenance will be supported by the department. The PIs are qualified and experienced. Full funding is recommended.

Rank	15
Proposal #	048ENH-24 (Health & Medical Sciences)
Institution	Louisiana State University and A&M College
Title	Enhancing Tools for Bioenergetic Analyses for Research and Teaching
Requested	\$199,798
Recommended	\$199,798

LSU A&M's project will establish a state-of-the-art Immuno-Bioenergetics Core Facility, which can provide comprehensive Immuno-Bioenergetics phenotyping along with fertile training opportunities and workforce development for undergraduate and graduate students, as well as postdoctoral fellows. Impairments in Immuno-Bioenergetics contribute to the development of many chronic pathologies that affect Louisianians' health and wellbeing. Addressing these issues will be accomplished by the purchase of the latest technology and allow expansion of research capacity along with undergraduate and graduate programs. Project goals are clearly stated, reasonable and achievable. They are closely related to the mission statement of the academic unit and university. Objectives are well defined and linked to the goals. The project will very positively affect the School of Kinesiology's faculty, students, infrastructure, curriculum, research capability, retention (in both the unit and across the university), the community, and the state. The plan for sustainability involves development of recharge systems to allow fees to be assessed for equipment use and training. These fees will be used to support ongoing maintenance and replenish supplies. The budget is appropriate for maximization of the proposed project's impact. The budget justification clearly shows the relationship of each requested item to the proposed project's impact, goals, and work plan. Full funding is recommended.

Rank	15
Proposal #	099ENH-24 (Social Sciences)
Institution	University of New Orleans
Title	The UNO Heritage Management and Preservation Hub
Requested	\$191,358
Recommended	\$147,183

The applicants seek support for the creation of the UNO Heritage Management and Preservation Hub, which will allow curation and display of archaeological finds and training of students in archaeology and sociology, as well as history and urban studies, related to artifact preservation. The department already does much of this work, but outsources storage to other facilities, which reduces educational and public access and benefit. The Hub will help rectify this, positively impacting students, faculty, and the public, and providing materials to be utilized in existing courses. The goals are clearly articulated. The work plan is reasonable. This project will impact large numbers of faculty and students across multiple departments. Interdisciplinary projects will be fostered, and students will receive valuable workforce preparation. The potential for

collaboration with community partners and the public is another strength of this proposal. The impact statement comprehensively addresses the research, teaching, and service missions of the unit and specific metrics provided for evaluating success. The sustainability plan is strong, in particular the approach of using curation fees and the applicant's grant funding. The PI has the requisite expertise, background, and opportunities to implement the plan. More justification is needed to support the amount and nature of the equipment and other supplies being requested. It is unclear why curation consultation is necessary given the applicant's expertise. Partial funding of \$147,183 is recommended.

Rank	20
Proposal #	067ENH-24 (Biological Sciences)
Institution	Nicholls State University
Title	Enhancement of Teaching and Research through Microscopy
Requested	\$30,816
Recommended	\$30,816

This project aims to modernize teaching labs by replacing outdated microscopes with advanced digital imaging equipment, aligning with the department mission. The upgrades will be critical for enhancing educational quality and research capabilities and promise significant benefits for both undergraduate and graduate students by improving image quality and supporting diverse learning outcomes. The goals are realistic and clearly tied to the objectives. The work plan is appropriate and presents a reasonable timeframe. A good sustainability plan is presented. A large number of students will be impacted across a number of classes. Retention will be impacted, as well as workforce development. The project benefits from the extensive teaching experience of the PI and Co-PI, who are primarily responsible for courses that will use the new equipment. An evaluation plan is in place. The budget is pragmatically planned, maximizing existing resources to enhance the teaching setup without unnecessary expense. Overall, the proposal stands out for its potential to significantly impact student learning, teaching effectiveness, and research quality. Full funding is recommended.

Rank	20
Proposal #	062ENH-24 (Engineering B)
Institution	McNeese State University
Title	Enhancing Materials Science Education: Integrating Hands-On Tensile Testing into the Stress-Strain Curve Curriculum
Requested	\$195,915
Recommended	\$195,915

This proposal seeks to acquire three tensile test machines to enhance McNeese's Strength of Materials Lab. The equipment is important to tendering effective education and will have significant impacts on pedagogy. The project is clearly in line with departmental and institutional missions. The requested equipment is standard and should be present in every Mechanical Engineering program; adding the three machines will have an outsized impact on the program's ability to provide students with up-to-date, meaningful, hands-on educational experiences that will

serve them in professional life after graduation. The goals are clear and the case for need is compelling. The work plan is straightforward and clearly outlined. A variety of mechanisms for maintenance are described. Several criteria for evaluation are presented for each objective. The budget justification is detailed and persuasive. Full funding is recommended.

Rank	20
Proposal #	095ENH-24 (Health & Medical Sciences)
Institution	University of Louisiana at Monroe
Title	Enhancing Interactive Learning and Practical Application of Clinical Anatomy in the Occupational Therapy Curriculum
Requested	\$156,488
Recommended	\$156,488

The applicants plan to acquire several advanced pieces of training equipment, including an Anatomage Table Clinical and a SynDaver, G3 Silicone Anatomy Model. Acquiring this equipment will improve training for graduate students in Occupational Therapy. The goals are very clearly stated and related to the mission statement of the university and program. The objectives are measurable and closely related to the goals. The work plan details tasks, timelines, and responsible parties. The tasks align with the objectives. Training of faculty to use the new equipment is not addressed; it would be helpful to know who will provide this training and their qualifications. The proposed project should positively impact program faculty, students, infrastructure, curriculum, recruitment, and retention. The university, community, and state will benefit from the proposed project and a reasonable sustainability plan is provided. The budget maximizes the impact of the funds and the budget justification explains the relationship of each requested item to the project's impact, goals, and work plan. An institutional cost share is provided, showing the strategic importance of the project. Full funding is recommended.

Rank	20
Proposal #	089ENH-24 (Social Sciences)
Institution	University of Louisiana at Lafayette
Title	Enhancement to Support Multidisciplinary Research on Emotion and Virtual Reality
Requested	\$106,925
Recommended	\$70,086

This project will establish a virtual reality (VR) lab necessary for training clinicians in ULL's Department of Psychology. It will also be utilized by the computing and education departments. The lab will serve training, educational, and research purposes, allowing the department to keep pace with best practices in clinical training. Project goals are clearly organized and linked to concrete outcomes. The objectives align with the department's mission to empower students to think critically and scientifically about behavior. This application has the potential to improve both research and educational in the Department of Psychology and broader institutional community. The equipment will provide faculty and students the opportunity to gain exposure to VR to better understand psychology concepts and conduct research, building skills in using this type of

technology that they can leverage in their future work. Specific metrics for determining project success are identified. The data to be collected for evaluation appear adequate and align with the goals of the project. The applicants are well suited to carry out the tasks outlined in the project. The budget and work plan are not fully aligned. Two units are requested, but the number is not fully justified. In addition, outreach was not discussed as an aim of this project and budget items related to mobile equipment did not seem necessary for the goals outlined. Partial funding of \$70,086 is recommended.

Rank	24
Proposal #	097ENH-24 (Social Sciences)
Institution	University of Louisiana at Monroe
Title	Forget-Me-Not: An Apprenticeship and Mentoring Program in Dementia-Care
Requested	\$30,950
Recommended	\$30,950

This proposal seeks support for a pilot program with the primary goal of providing workforce training to a new generation of undergraduate students in dementia care through paid apprenticeships and a mentoring program. With a rise in the age of the general population, training undergraduates in dementia care is a critical task. As a pilot program, this initiative has the potential to create and grow meaningful university-community partnerships and opportunities for students. It is easy to see the program becoming a core part of the student experience. The goals strong and achievable, and the project is well designed. The program is directly relevant to the mission of the academic unit, the ULM Gerontology Program. The work plan is very clearly stated, with a specific, reasonable and appropriate timeline. The PI is the only listed team member, but the budget includes support for a graduate assistant who will presumably assist the PI in developing and implementing workshops and conducting assessments. The proposal does an excellent job tying specific activities to the broader goals of the project. The impact of the experience on the student cohort is potentially quite profound, as it will provide valuable professional development and hands-on experience. It will help them to form networks of professional connections within the field of geriatrics and will directly prepare them for employment post-graduation. The assessment plan is clear and well designed to evaluate the degree to which project goals have been met. Sustainability of the project depends on the PI's ability to solicit support from industry partners based on the outcomes of a successful pilot program. Given the relatively low cost of the apprenticeship opportunities, this seems highly plausible. The PI is extremely well qualified to carry out this work, with a history of successful research, grant activity, and administrative experience. The budget is reasonable and efficient. Full funding is recommended.

Appendix A

Proposal Lists

**Proposals Submitted to the Departmental Enhancement Program - Comprehensive
for the FY 2023-24 Review Cycle**

Proposal #	PI Name	Institution	Project Title	Primary Category	Amount Requested					
					Year 1	Year 2	Year 3	Year 4	Year 5	Total
001ENH-24	Dr. Mohammed Hussain	Dillard University	Finance and Economics Computer Lab	Education	\$56,978	\$0	\$0	\$0	\$0	\$1,979,813
002ENH-24	Dr. Kayanush Aryana	Louisiana State University Agricultural Center	Enhancing research and teaching on healthier, safer and novel foods in Louisiana.	Research	\$230,250	\$224,835	\$237,835	\$237,855	\$69,167	\$2,203,310
003ENH-24	Prof. Morgan Kelly	Louisiana State University and A & M College	A Comprehensive Enhancement to Ensure the Continued Success of the LSU Genomics Facility	Research	\$299,422	\$148,114	\$198,000	\$121,279	\$156,078	\$2,031,187
004ENH-24	Prof. J Leichman	Louisiana State University and A & M College	Digital Humanities for Twenty-First Century French Studies	Research	\$80,689	\$106,001	\$93,785	\$0	\$0	\$1,773,913
005ENH-24	Prof. Michelle Osborn	Louisiana State University and A & M College	Comparative and Functional Morphological Sciences Program	Education	\$249,155	\$177,732	\$151,932	\$124,500	\$124,500	\$2,293,726
006ENH-24	Dr. Dandina Rao	Louisiana State University and A & M College	Experimental Research Capability Enhancement at LSU's Engineering and Geology Departments	Research	\$296,200	\$191,250	\$178,169	\$0	\$0	\$2,407,957
007ENH-24	Dr. Kari Brisolara	Louisiana State University Health Sciences Center - New Orleans	A healthier Louisiana population with a workforce addressing the structural and emergent issues affecting public health	Education	\$277,496	\$156,948	\$121,948	\$121,948	\$121,948	\$2,434,874
008ENH-24	Dr. Luis Marrero	Louisiana State University Health Sciences Center - New Orleans	BayouBones: Enhancing Medical Education for Louisiana	Research	\$287,010	\$199,010	\$172,010	\$164,510	\$119,510	\$2,634,586
009ENH-24	Prof. Arden Moore	Louisiana Tech University	Comprehensive Enhancement of Mechanical Engineering Research at Louisiana Tech University	Research	\$179,760	\$182,863	\$169,688	\$160,225	\$0	\$1,901,276
010ENH-24	Dr. Laurie Earls	Loyola University New Orleans	Improving microscopy resources at Loyola University New Orleans to create high-impact training opportunities for disadvantaged undergraduate students	Education	\$294,000	\$194,000	\$194,000	\$142,000	\$176,000	\$1,617,918
011ENH-24	Dr. Qi Guo	McNeese State University	Empowering Engineering Education: A Computer-Equipped Classroom for Digital Learning Transformation	Education	\$208,740	\$0	\$0	\$0	\$0	\$1,617,918
012ENH-24	Mr. James Cox	Northwestern State University	Comprehensive Enhancement of Northwester State Universities Remote Systems Science and Technology Program	Education	\$298,978	\$110,200	\$0	\$0	\$0	\$1,617,918
013ENH-24	Dr. Tara Tietjen-Smith	Northwestern State University	Creating a Pipeline to Success in Health Sciences Education & Research: Engagement and Empowerment Initiative [EEI]	Education	\$171,064	\$172,286	\$180,243	\$159,956	\$173,982	\$1,617,918
014ENH-24	Dr. Justin Anderson	Southeastern Louisiana University	Revitalizing Southeastern's Microbiology and Plant Science Capabilities	Education	\$260,300	\$142,000	\$0	\$0	\$0	\$1,617,918
015ENH-24	Dr. Yolanda Campbell	Southern University and A&M College - Baton Rouge	Meeting the Moment: Revitalizing Curriculum, Facilities, and Instruction for Southern University's Department of Mass Communication	Education	\$308,410	\$302,864	\$302,864	\$0	\$0	\$1,617,918
016ENH-24	Dr. Lisa Mims-Devezin	Southern University at New Orleans	ENHANCEMENT OF COMPUTER LABORATORY FACILITY FOR INTERDISCIPLINARY INSTRUCTION AT SOUTHERN UNIVERSITY AT NEW ORLEANS [SUNO]	Education	\$199,999	\$0	\$0	\$0	\$0	\$1,617,918
017ENH-24	Prof. Casey Beck	Tulane University	Enhancing Community-Engaged Media Production in the Tulane University Digital Media Practices Program	Education	\$299,821	\$198,720	\$199,900	\$148,785	\$123,750	\$1,617,918
018ENH-24	Prof. Stryder Meadows	Tulane University	Fundamental Enhancement of the Tulane Transgenic Core Facility	Research	\$295,302	\$72,738	\$0	\$0	\$0	\$1,617,918
019ENH-24	Prof. Charles Stoecker	Tulane University Health Sciences Center	Big Data Healthcare Analytics Infrastructure	Research	\$274,000	\$181,000	\$30,000	\$0	\$0	\$1,617,918
020ENH-24	Dr. Alan Barhorst	University of Louisiana at Lafayette	Louisiana Center for Research and Education in Advanced Manufacturing	Education	\$300,000	\$200,000	\$200,000	\$100,000	\$200,000	\$1,617,918
021ENH-24	Dr. Mohammad Khattak	University of Louisiana at Lafayette	Enhancement of Materials Multiscale Mechanical Testing Capacity of College of Engineering	Research	\$296,077	\$185,682	\$171,221	\$180,530	\$166,444	\$1,617,918
022ENH-24	Prof. Geoffrey Marschall	University of Louisiana at Lafayette	Developing Virtual Media Production at the University of Louisiana at Lafayette	Education	\$299,996	\$199,980	\$200,000	\$199,983	\$99,978	\$1,617,918
023ENH-24	Dr. John Horne	University of New Orleans	DCC-UNO Partnership to Enhance Transfer Student Success in Biology	Education	\$213,509	\$186,051	\$57,792	\$44,628	\$51,386	\$1,617,918
024ENH-24	Dr. Paul Schilling	University of New Orleans	3D Studio: Interdisciplinary Design Education at UNO	Education	\$295,790	\$197,742	\$196,248	\$199,494	\$0	\$1,617,918
025ENH-24	Dr. Elizabeth Rousselle	Xavier University of Louisiana	Immersive and Authentic Materials for Student Cultural Awareness and Proficiency in Chinese, French, and Spanish at Xavier University of Louisiana	Education	\$287,745	\$183,745	\$183,745	\$162,045	\$140,345	\$1,617,918

Total Number of Proposals Submitted	25
Total Funds Requested for First Year	\$6,260,691
Total Funds Requested for Second Year	\$3,913,761
Total Funds Requested for Third Year	\$3,239,380
Total Funds Requested for Fourth Year	\$2,267,738
Total Funds Requested for Fifth Year	\$1,723,088
Total Funds Requested	\$17,404,658

**Proposals Submitted to the Departmental Enhancement Program - Targeted
for the FY 2023-24 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Amount Requested
026ENH-24	Dr. Shaniece Bickham	Dillard University	Broadcast Studio Upgrades that Prepare Diverse Students for Competitive Opportunities	Education	\$85,410
027ENH-24	Dr. Ruby Broadway	Dillard University	Enhancement of the Biology Curriculum: Integration of Climate Change, Global Warming, the Greenhouse Effect and Saltwater Intrusion into the biology curriculum.	Education	\$46,164
028ENH-24	Dr. Steve Buddington	Dillard University	Enhancement of Undergraduate Access to Technology, Teaching, and Research in the School of Social Sciences	Education	\$42,638
029ENH-24	Mrs. Aimee Howard	Franciscan Missionaries of Our Lady University	Enhancing Education of Entry Level Physical Therapists Using Musculoskeletal Ultrasound	Education	\$143,800
030ENH-24	Prof. Daphne Moore	Franciscan Missionaries of Our Lady University	Enhancing Learning Opportunities in the Biology Program at Franciscan Missionaries of Our Lady University through the Addition of Laboratory Equipment	Education	\$103,466
031ENH-24	Dr. Hector Douglas	Grambling State University	Analytical Instrumentation for Biological Sciences	Research	\$191,227
032ENH-24	Prof. Haeyeon Yang	Grambling State University	Nanoscale imaging for STEM research and careers	Research	\$148,496
033ENH-24	Dr. Elizabeth Christian	Louisiana Christian University	Digital Enhancement of Media Platforms for High-Level College instruction	Education	\$200,000
034ENH-24	Dr. Shaina Goudeau	Louisiana Christian University	Enhancement of the Physical Therapist Assistant Program Through Implementation of Updated Classroom and Laboratories	Education	\$178,685
035ENH-24	Dr. Tomekia Luckett	Louisiana Christian University	Increasing the CENLA workforce through improved technology	Workforce	\$200,000
036ENH-24	Dr. Juanita Moorman	Louisiana Christian University	Social Work Research Center	Research	\$47,137
037ENH-24	Dr. Wade Warren	Louisiana Christian University	The Anatomage Table	Education	\$100,700
038ENH-24	Dr. Yan Chen	Louisiana State University Agricultural Center	Enhancing Undergraduate and Graduate Student Learning in Plant Sciences with Upgraded Analytical Instrumentation	Education	\$199,400
039ENH-24	Prof. Gillian Eggleston	Louisiana State University Agricultural Center	Enhancing the Central Analytical Laboratory and Audubon Laboratory Services to Serve the Louisiana Sugar Industry	Research	\$50,000
040ENH-24	Prof. Roberto Fritsche Neto	Louisiana State University Agricultural Center	Developing image-based prediction models for a more profitable and sustainable rice disease management in Louisiana	Research	\$198,795
041ENH-24	Dr. Joan King	Louisiana State University Agricultural Center	Updating DSC instrumentation for teaching, research and outreach	Research	\$58,160
042ENH-24	Prof. Ely Oliveira Garcia	Louisiana State University Agricultural Center	Acquisition of a Keyence BZ-X800E Microscope used in Research and Teaching at Louisiana State University Agricultural Center	Education	\$191,349
043ENH-24	Dr. Jonathan Richards	Louisiana State University Agricultural Center	Critical infrastructure for agricultural science: acquisition of plant growth and dew chambers for improved plant pathology research and education	Research	\$197,440

**Proposals Submitted to the Departmental Enhancement Program - Targeted
for the FY 2023-24 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Amount Requested
044ENH-24	Dr. Constantine Simintiras	Louisiana State University Agricultural Center	Confocal microscope procurement for high-resolution live-cell imaging	Research	\$200,000
045ENH-24	Dr. James Wise	Louisiana State University Agricultural Center	Environmental Pollutants Disrupts the Glycolytic and Mitochondrial Functions of Mammalian Lung Cells	Research	\$199,989
046ENH-24	Dr. Corina Barbalata	Louisiana State University and A & M College	A reconfigurable cyber-physical eco-system for the T-shape education framework	Education	\$124,951
047ENH-24	Dr. Melissa Beck	Louisiana State University and A & M College	Virtual Reality for Education, Workforce, and Citizen Scientists	Research	\$47,900
048ENH-24	Dr. Brian Irving	Louisiana State University and A & M College	Enhancing Tools for Bioenergetic Analyses for Research and Teaching	Research	\$199,798
049ENH-24	Dr. Sabei Xia	Louisiana State University and A & M College	Enhance Research and Small Business Entrepreneurship in Wearable Technology with the Support of a Thermal and Sweating Manikin	Education	\$200,000
050ENH-24	Mrs. Jessica Thacker	Louisiana State University at Alexandria	LSUA Content Creation Lab	Education	\$110,610
051ENH-24	Dr. Rakitha Beminiwattha	Louisiana Tech University	Enhancing Research Infrastructure at the Center for Applied Physics Studies [CAPS]: Acquisition of Equipment for Quantifying Light Yields and Fluorescence Lifetimes	Research	\$67,357
052ENH-24	Dr. Simone Camel	Louisiana Tech University	Nutrition Measurement Laboratory Enhancement	Research	\$47,760
053ENH-24	Dr. Kelly Crittenden	Louisiana Tech University	Advancing Research in Additive Fabrication through Material and Equipment Investments	Education	\$170,000
054ENH-24	Ms. Meredith Nichols	Louisiana Tech University	Creating a Student--Focused Go media Presentation Studio	Education	\$72,197
055ENH-24	Dr. Alison Reichter	Louisiana Tech University	Enhancing Student Experiences and Skill Development through the Establishment of a Clinical Health Teaching Laboratory in the Department of Kinesiology	Education	\$198,244
056ENH-24	Dr. John Shaw	Louisiana Tech University	Enhancement Proposal for the Louisiana Tech University Astronomical Observatory	Education	\$56,857
057ENH-24	Dr. Lingxiao Wang	Louisiana Tech University	A Modernization Initiative on Automatic Control Laboratory at Louisiana Tech University	Education	\$56,978
058ENH-24	Prof. Shengnian Wang	Louisiana Tech University	Enhancing Biomedical Research and Education with an Ultracentrifugation System	Research	\$122,632
059ENH-24	Dr. Amrita Datta	Loyola University New Orleans	Incucyte S3-a kinetic, high throughput, live cell imaging and analysis system for enhancing laboratory research experiences over six courses and collaborative research projects for undergraduates	Research	\$199,907
060ENH-24	Ms. Tara Duck	McNeese State University	Enhancement of the Human Anatomy and Physiology Laboratories to Encourage Collaborative Learning	Education	\$73,553
061ENH-24	Dr. Qi Guo	McNeese State University	Elevating Hands-On Learning in Engineering Education: Empowering Students with Refrigeration Cycle Trainers	Education	\$179,052

**Proposals Submitted to the Departmental Enhancement Program - Targeted
for the FY 2023-24 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Amount Requested
062ENH-24	Dr. Qi Guo	McNeese State University	Enhancing Materials Science Education: Integrating Hands-On Tensile Testing into the Stress-Strain Curve Curriculum	Education	\$195,915
063ENH-24	Dr. Sonya Hidalgo	McNeese State University	Development of a Comprehensive Simulation Lab to Enhance Medical Laboratory Science Education at McNeese State University	Education	\$59,742
064ENH-24	Dr. Joanna Thompson	McNeese State University	Interdisciplinary Enhancement in Behavioral Health Education: Advanced Technology in Counseling and Applied Behavior Analysis	Education	\$194,900
065ENH-24	Dr. Alaina Daigle	Nicholls State University	Telehealth and the Future of Healthcare Using Simulation Technology	Education	\$29,000
066ENH-24	Dr. Ali Reza Edrisi	Nicholls State University	Industrial Fluid Process Automation Laboratory	Education	\$50,531
067ENH-24	Dr. S Robichaux	Nicholls State University	Enhancement of Teaching and Research Through Microscopy	Education	\$30,816
068ENH-24	Dr. Md Shahriar Hossain	Northwestern State University	Enhancing Industrial Robotics Education in Engineering Technology Degree Programs	Education	\$38,600
069ENH-24	Dr. Nabin Sapkota	Northwestern State University	Integrating CAD and CAM Technologies to Enhance Undergraduate Education and Research in Industrial Engineering Technology	Education	\$52,890
070ENH-24	Dr. Mohammad Ahmed	Southeastern Louisiana University	Enhancing the Prototyping, Manufacturing, and Testing Infrastructure at Southeastern	Education	\$141,775
071ENH-24	Dr. Ann Carruth	Southeastern Louisiana University	Virtual and ICU Nursing Careers Through Advanced Learning Simulation [VITALS]	Education	\$200,000
072ENH-24	Dr. Deatrice Green	Southeastern Louisiana University	Revolutionizing Graduate Counseling: A Simulation Clinic and Technology-Enhanced Program for Workforce Development	Education	\$88,124
073ENH-24	Dr. David Hanson	Southeastern Louisiana University	Laptops for Student Use in the Southeastern Writing Center	Education	\$86,929
074ENH-24	Dr. Holly Kihm	Southeastern Louisiana University	The Advancement of a Medical and Therapeutic Play Simulation Laboratory to Enhance Students Therapeutic Communication Skills	Education	\$114,919
075ENH-24	Dr. Jerry Parker	Southeastern Louisiana University	Advancing and Innovating World Language Study at Southeastern to Meet 21st Century Needs in the Job Market	Education	\$82,607
076ENH-24	Dr. Bovorn Sirikul	Southeastern Louisiana University	Equipment and technology upgrades to enhance student career preparation in health and kinesiology-related fields	Education	\$109,012
077ENH-24	Dr. kebede beshera	Southern University and A&M College - Baton Rouge	Technology Enhancement for Human Anatomy and Physiology Course Instruction at Southern University and A&M College [SUBR]	Education	\$119,516
078ENH-24	Dr. Mary Clinkenbeard	Southern University and A&M College - Baton Rouge	Humanities for the 21st Century: Creating a Writing Makerspace and Library in the English and Philosophy Department at Southern University	Education	\$124,765

**Proposals Submitted to the Departmental Enhancement Program - Targeted
for the FY 2023-24 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Amount Requested
079ENH-24	Dr. jarrett landor-ngemi	Southern University and A&M College - Baton Rouge	Acquisition of High-Performance Computers and Large Storage Instruments to Enhance Research and Education in Big Data Science and Artificial Intelligence: The Nelson Mandela College of Government and Social Sciences SMART Technology Lab	Research	\$102,225
080ENH-24	Dr. Harold Mellieon, Jr.	Southern University and A&M College - Baton Rouge	jAG?s of the Future: Enhancing student learning and engagement beyond the classroom	Education	\$182,500
081ENH-24	Dr. Jung-Im Seo	Southern University and A&M College - Baton Rouge	Enhancement of Learning Quality and Students' Design Hands-on Experiences through Computer Technological Support in Fashion Merchandising Design and Textiles	Education	\$173,475
082ENH-24	Dr. Craig Flanagan	Tulane University	Integration of Advanced Human Movement Analysis Equipment for Innovative Multidisciplinary Education	Education	\$196,668
083ENH-24	Prof. Scott Grayson	Tulane University	Improving the gel permeation chromatography suite with triple detection	Research	\$143,947
084ENH-24	Prof. Jun-yuan Ji	Tulane University Health Sciences Center	Context-specific functions of CDK8	Research	\$73,099
085ENH-24	Dr. Alan Barhorst	University of Louisiana at Lafayette	CNC Mill for UL Lafayette Mechanical Engineering and Engineering Technology Depts.	Education	\$200,000
086ENH-24	Dr. Tanvir Faisal	University of Louisiana at Lafayette	Advancing mechanical testing and materials characterization in bioengineering/ biomedical research and education	Research	\$165,550
087ENH-24	Dr. Seonhee Jang	University of Louisiana at Lafayette	Acquisition of nanoindentation to enhance engineering research and education	Research	\$164,500
088ENH-24	Dr. Mohammad Khattak	University of Louisiana at Lafayette	Advanced Rheometer System to Support Materials Education and Research	Education	\$79,825
089ENH-24	Prof. Hung-Chu Lin	University of Louisiana at Lafayette	Enhancement to Support Multidisciplinary Research on Emotion and Virtual Reality	Research	\$106,925
090ENH-24	Prof. Sen Liu	University of Louisiana at Lafayette	Robotic Laser Directed Energy Deposition System at the University of Louisiana at Lafayette	Research	\$195,281
091ENH-24	Dr. Kelly Robinson	University of Louisiana at Lafayette	Modernization of the UL Lafayette seawater system	Research	\$61,434
092ENH-24	Dr. Scott Sittig	University of Louisiana at Lafayette	Development of a Digital Health Innovation and Learning Lab [DHILL]	Education	\$36,650
093ENH-24	Prof. Karen Smith	University of Louisiana at Lafayette	Enhancement of Physiology Courses with Cellular Respiration Equipment	Education	\$68,550
094ENH-24	Dr. Ashley Barbo	University of Louisiana at Monroe	Simulation Enhancement for Health Professions Education at The University of Louisiana at Monroe	Education	\$137,835
095ENH-24	Dr. Patti Calk	University of Louisiana at Monroe	Enhancing Interactive Learning and Practical Application of Clinical Anatomy in the Occupational Therapy Curriculum	Education	\$156,488
096ENH-24	Dr. Rebecca Hamm	University of Louisiana at Monroe	Equipment to Enhance Student Learning in Radiologic Technology Laboratory Courses and Interprofessional Education Activities	Education	\$162,400
097ENH-24	Dr. Anita Sharma	University of Louisiana at Monroe	Forget-Me-Not: An Apprenticeship and Mentoring Program in Dementia-Care	Education	\$30,950

**Proposals Submitted to the Departmental Enhancement Program - Targeted
for the FY 2023-24 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Amount Requested
098ENH-24	Dr. Marc Bonis	University of New Orleans	Enhanced Health Science Laboratory	Education	\$158,083
099ENH-24	Dr. D. Gray	University of New Orleans	The UNO Heritage Management and Preservation Hub	Education	\$191,358
100ENH-24	Dr. Randy Kearns	University of New Orleans	Healthcare Management Departmental Enhancement Project	Education	\$181,385
101ENH-24	Dr. Shearon Roberts	Xavier University	Advancing Education in Health and Science Communication to Address Disparities	Education	\$197,513

Total Proposals Submitted	76
Total Funds Requested	\$9,597,334

Appendix B

Departmental Enhancement Rating Form

Departmental Enhancement Rating Form

Number:

Discipline:

Type:

PI:

Institution:

Title:

First-Year Request:

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:

Year 1: _____

Year 2: _____

Year 3: _____

Funding Stipulations (if any):