

**LOUISIANA BOARD OF REGENTS  
BOARD OF REGENTS SUPPORT FUND**

**ENHANCEMENT PROGRAM**

**REVIEW OF COMPETITIVE PROPOSALS SUBMITTED FOR  
FUNDING CONSIDERATION IN THE DEPARTMENTAL  
ENHANCEMENT (COMPREHENSIVE AND TARGETED)  
SUBPROGRAM**

**FY 2017-18 COMPETITION**

**March 2018**

**REPORT OF THE FINAL PANEL BOARD OF REGENTS SUPPORT FUND RESEARCH DEPARTMENTAL  
ENHANCEMENT PROGRAM  
FY 2017-18**

**BACKGROUND INFORMATION**

One hundred and seventy-eight (178) proposals requesting a total of \$26,799,569 in first-year funds were submitted for funding consideration in fiscal year (FY) 2017-18 to the Departmental Enhancement Program of the Board of Regents Support Fund (BoRSF). Nine (9) disciplines were eligible, including Agricultural Sciences, Astronomy, Biological Sciences, Engineering "B" (i.e., Industrial, Materials, and Mechanical), Health & Medical Sciences, Humanities, Physics, Social Sciences, and Targeted Workforce.

As described in the 2017-18 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 over 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 academic unit priority. Overall, thirty-nine (39) Comprehensive Enhancement proposals and one hundred thirty-nine (139) Targeted Enhancement proposals were submitted. The 2017-18 RFP noted that only one to three Comprehensive Enhancement proposals would be selected for funding due to limited monies available and high long-term commitment of dollars.

**THE REVIEW PROCESS**

The one hundred seventy-eight (178) proposals submitted were subjected to a two-round review process. During the first round of review, proposals were assigned to one (1) of eight (8) discipline-based panels and evaluated by two of thirty-seven (37) total reviewers. The eight (8) first-round panels submitted their reviews and rankings, including a list of highly recommended proposals, to the final panel for consideration.

The final panel consisted of four members including the chair, Jeffrey Dean, Head of the Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology at Mississippi State University; Elizabeth Grauerholz, Director of Social Sciences at the University of Central Florida; Sridhar Krishnaswamy, Director of the Center for Quality Engineering and Failure Prevention at Northwestern University; and Thomas Pressley, Professor of Medical Education in the Graduate School of Biomedical Sciences at Texas Tech University Health Sciences Center.

The final panel exchanged materials and communications during March 2018 via email. After detailed deliberations the panel highly recommended three (3) Comprehensive Enhancement proposals at a total

of \$549,629 in first-year funds, and nineteen (19) Targeted Enhancement proposals at a total of \$1,935,831 in first-year funds, based on monies projected to be available. Overall, twenty-two (22) Departmental Enhancement proposals are recommended for total support of \$2,485,460 in first-year funds. For the three (3) Comprehensive Enhancement proposals highly recommended for funding, a total of \$2,520,883 was recommended over five years.

Given funding constraints in the BoRSF, no additional proposals are recommended for funding. Each unsuccessful applicant will receive in July 2018 the first-round panel and, if applicable, final panel assessments, including scores, for the proposal(s) submitted.

Table I of this report contains the rank-order list of Comprehensive Enhancement proposals highly recommended for funding by the Final Panel. Table II contains the rank-order list of Targeted Enhancement proposals highly recommended for funding by the Final Panel. Table III lists the members of the Final Panel, and Table IV lists the members and contributing consultants of the eight (8) first-round review panels. These are followed by a compilation of written comments made by the final panel with additional contributions from first-round panelists. These are listed by rank order for Comprehensive Enhancement proposals, followed by Targeted Enhancement 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.

**Table I**

**FY2017-18 Departmental Enhancement Funding  
Recommendations**

**Comprehensive Enhancement: Highly Recommended for Funding**

Rank	#	Institution	Discipline	1st-YR	1st-YR	Total	Total
				Request	Recommendation	Request	Recommendation
1	026ENH-18	Tulane	Health & Medical	\$240,946	\$240,946	\$1,000,000	\$1,000,000
2	008ENH-18	LSU	Engineering B	\$235,615	\$235,615	\$907,715	\$907,715
3	038ENH-18	UNO	Humanities	\$81,068	\$73,068	\$621,168	\$613,168
<b>Total</b>				\$557,629	\$549,629	\$2,528,883	\$2,520,883

**Table II**

**FY2017-18 Departmental Enhancement Funding Recommendations**

**Targeted Enhancement: Highly Recommended for Funding**

Rank	#	Institution	Discipline	1st-YR Request	1st-YR Recommendation
1	174ENH-18	UNO	Targeted Workforce	\$195,400	\$195,400
2	177ENH-18	Xavier	Humanities	\$196,854	\$196,854
3	086ENH-18	LSUHSCNO	Health & Medical	\$126,047	\$126,047
4	163ENH-18	ULL	Humanities	\$48,929	\$48,929
5	066ENH-18	LSUAG	Agricultural Sciences	\$167,132	\$167,132
6	067ENH-18	LSU	Biological Sciences	\$199,827	\$162,027
7	139ENH-18	SU A&M	Engineering B	\$200,000	\$200,000
8	060ENH-18	LSUAG	Agricultural Sciences	\$111,860	\$111,860
9	058ENH-18	La. College	Humanities	\$17,766	\$17,766
10	131ENH-18	SLCC	Targeted Workforce	\$19,093	\$19,093
11	165ENH-18	ULL	Physics	\$197,675	\$197,675
12	101ENH-18	LaTech	Humanities	\$20,197	\$20,197
13	043ENH-18	Centenary	Social Sciences	\$28,344	\$18,000
14	041ENH-18	BRCC	Targeted Workforce	\$96,660	\$96,660
15	176ENH-18	UNO	Engineering B	\$125,212	\$125,212
16	053ENH-18	Fletcher	Health & Medical	\$73,170	\$73,170
17	169ENH-18	ULM	Health & Medical	\$92,462	\$92,462
18	111ENH-18	Nicholls	Biological Sciences	\$42,042	\$42,042
19	098ENH-18	LaTech	Agricultural Sciences	\$25,305	\$25,305
<b>Total</b>				<b>\$1,983,975</b>	<b>\$1,935,831</b>

**Table III**

**2018 Departmental Enhancement Review**

Final Panel		
Name	Institution	Title
Jeff Dean (Chair)	Mississippi State University	Head, Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology
Liz Grauerholz	University of Central Florida	Director of Social Sciences
Sridhar Krishnaswamy	Northwestern University	Director, Center for Quality Engineering and Failure Prevention
Thomas Pressley	Texas Tech Health Sciences Center	Professor of Medical Education, Graduate School of Biomedical Sciences

**Table IV**  
**2018 Departmental Enhancement Review: First-Round Consultants**

Name	Institution	Specialty
<b>Agricultural Sciences</b>		
Joseph Quansah	Tuskegee University	Soil Science
Kim McCuiston	Texas A&M Kingsville	Animal Science
<b>Biological Sciences</b>		
Greg Colores	Central Michigan University	Molecular
Brij Singh	UT Health San Antonio	Biochemistry
John Niedzwiecki	Belmont University	Evolutionary
<b>Engineering B</b>		
Gül E. Kremer	Iowa State University	Industrial
Xianchang Li	North Carolina State University	Mechanical
Elizabeth Dickey	Lamar University	Materials
<b>Health &amp; Medical</b>		
Catherine McCarty	University of Minnesota	Public Health
Gerald Sonnenfeld	Rhode Island University	Toxicology
Patricia Crane	East Carolina University	Nursing
<b>Humanities</b>		
Dawn Bratsch-Prince	Iowa State University	Language
Samantha Cantrell	Middle Tennessee State University	Literature
<b>Physics &amp; Astronomy</b>		
Alexey Petrov	Wayne State University	Theoretical Physics
Min Ouyang	University of Maryland	Condensed Matter
Donna Pierce	Mississippi State University	Astronomy
<b>Social Sciences</b>		
R Rogers Kobak	University of Delaware	Psychology
Willa Casstevens	North Carolina State University	Social Work
Aashish Kumar	Hofstra University	TV & Film Production
Robert Gordon	Middle Tennessee State University	TV & Film Production
Young A-Lee	Iowa State University	Apparel Design
Maureen MacGillivray	Central Michigan University	Apparel Design
Deanna Grimstead	Ohio State University	Archaeology
Suzanne Birch	University of Georgia	Archaeology
Lori Collins	University of South Florida	GPS/Sonar
Brian Oakely	East Connecticut State University	Sonar
Guofeng Cao	Texas Tech University	GPS
<b>Workforce</b>		
Katherine Boswell	Education Policy Associates	Two-Year Schools
Vicki Trier	Lane Community College	Two-Year Schools
Sanjiv K. Bhatia	University of Missouri St. Louis	Cybersecurity
Jaudelice de Oliveira	Drexel University	Cybersecurity
Virginia Rougon Chavis	University of Mississippi	Digital Design
Vanessa Cruz	University of North Florida	Digital Design

## **FY2017-18 Departmental Enhancement Comprehensive Enhancement Proposals Highly Recommended for Funding**

**Ranking: #1 in Comprehensive Enhancement**

**026ENH-18 Tulane University Health & Medical Sciences**

**Title:** Enhancement of Core Research Facilities in the Tulane Brain Institute

**Total Request:** \$1,000,000 (Year 1: \$240,946, Y2: \$200,000, Y3: \$200,000, Y4: \$174,717, Y5: \$184,337)

**Recommended:** \$1,000,000 (Year 1: \$240,946, Y2: \$200,000, Y3: \$200,000, Y4: \$174,717, Y5: \$184,337)

This is a Comprehensive Enhancement Proposal that would build infrastructure, primarily by the purchase of major instrumentation, to support the newly created Brain Institute. Although neuroscience research and education has been a long-standing strength of Tulane, the Institute was founded to coordinate and expand these efforts. The principal investigator persuasively argues that comprehensive support (rather than funding of individual equipment) will facilitate further building of the Institute through recruitment and extramural funding applications that leverage the requested equipment purchases. Five pieces of core equipment are proposed, one for each year of the grant, along with training and support plans to insure optimal integration of that equipment. During the first round of review, the Health & Medical Sciences Panel found the proposal to be extremely meritorious, providing a score consistent with a proposal that “should be considered for funding above all others.” They cited the consistency of the project with the goals of the Institute, the thoughtful timeframe, and the strong, positive impact on the ability of the Institute to conduct significant research with both social and economic consequences. The Final Panel’s evaluation of this proposal aligns with their enthusiastic evaluation. The proposal is exceptionally well organized and persuasive, and the likelihood of success is great. Full funding is recommended.

**Ranking: #2 in Comprehensive Enhancement**

**008ENH-18 Louisiana State University and A&M College Engineering B**

**Title:** Advanced Device Fabrication for Science and Engineering Research and Education at Louisiana State University

**Total Request:** \$907,715 (Year 1: \$235,615, Y2: \$180,500, Y3: \$162,400, Y4: \$199,500, Y5: \$129,700)

**Recommended:** \$907,715 (Year 1: \$235,615, Y2: \$180,500, Y3: \$162,400, Y4: \$199,500, Y5: \$129,700)

This Comprehensive Enhancement project will impact several groups within LSU. The biggest impact will be on research and graduate education, with additional potential for economic development contributions. The goals are well articulated and achievable. The work plan is detailed and specific. The project will enable the Institute for Advanced Materials facility to update its equipment to remain competitive in terms of advanced fabrication. Research papers and research funding metrics will be tracked as an evaluation component. The five-year budget plan spreads out the costs of expensive equipment. There is a commitment letter from the LSU Office of Research & Economic Development to maintain equipment beyond the life of the program. The team members are highly qualified. Full funding is recommended.



**Ranking: #3 in Comprehensive Enhancement**

**038ENH-18      University of New Orleans      Humanities**

**Title:** Expanding Access, Enhancing Quality: Strengthening Digital Teaching and Learning in the Department of English and Foreign Languages at the University of New Orleans

**Total Request:** \$621,168 (Year 1: \$81,068, Y2: \$175,750, Y3: \$136,750, Y4: \$113,800, Y5: \$113,800)

**Recommended:** \$613,168 (Year 1: \$73,068, Y2: \$175,750, Y3: \$136,750, Y4: \$113,800, Y5: \$113,800)

Funds are requested to improve, expand and diversify online instruction in the Department of English and Foreign Languages at UNO. The goals are clearly articulated and include developing production studios, redesigning a training facility, creating a training program and workshop series, and hiring a new faculty member. These efforts will have direct impacts on instruction, including online degree programs, and program development. If successful, the project would help to expand access to education within the community, attract a wider audience (nationally and internationally), and expand dual enrollment with local high schools. The goals are clearly in line with UNO's strategic plan, particularly providing greater educational access to students locally and beyond by developing and enhancing online degree programs. The objectives are clear and measurable. The work plan is well defined, the tasks required to achieve the project's goals are clear, the schedule of completion is doable, and individuals responsible for completing various tasks are assigned. Providing course-release for faculty developing new courses is critical; however, it is unclear whether the department could absorb the reduction in faculty teaching, and there was not information about hiring adjuncts to cover classes. On the other hand, this department is the largest on campus, with 41 full-time and 15 part-time faculty members, as well as 36 graduate students. Therefore, they should be able to cover courses that need to be taught. The evaluation plan matches each goal and objective. It will provide highly useful data to undertake both formative and summative assessment of the program. Once faculty are trained, renovations completed and equipment installed, this online mission of the department should be well established and able to be sustained for some time beyond the life of the grant. The ability to replace outdated equipment seems to be dependent on fees charged through professional development courses, so this aspect is more tenuous. It is assumed that existing faculty will be able to train incoming faculty so that the project can be sustained beyond those who will be involved over the next decade or so. Expertise in all areas required is present. Each team member brings important skills and background to the project. The budget is detailed and clearly justifies the expenses listed. Due to limited funds available, partial funding of \$73,068 is recommended in year one, with reductions to be made at the discretion of the principal investigator. Full funding is recommended in additional years.

## **FY2017-18 Departmental Enhancement Targeted Enhancement Proposals Highly Recommended for Funding**

**Ranked: #1 in Targeted Enhancement**

**174ENH-18      University of New Orleans      Targeted Workforce**

**Title: UNO CyberRange: An Advanced Platform for Cybersecurity Workforce Training**

**Request: \$195,400      Recommendation: \$195,400**

This proposal seeks funds to build a working cyber range facility at UNO that will impact at least 12 undergraduate and graduate courses. The project aim is achievable and strongly related to the University of New Orleans' (UNO) and the Greater New Orleans Center for Information Assurance's mission statements. The objectives are well thought out and are strongly connected to the goal. The use of open-source software is a positive. In the work plan, the timeline is specific and responsibilities are clearly delineated. The team has done a good job of explaining the steps of project implementation and participant responsibilities. A cyber range facility will truly enrich the existing programs at UNO, providing an exciting hands-on learning opportunity for undergraduate and graduate students (also supporting the proposed MS in Cyber Security and Operations degree), as well as for faculty and working professionals in the region. The facility will add the potential for advanced training with simulations of real cyber threats in a contained virtual environment, allowing the study of detection and mitigation methods. The project has the potential to impact a large number of students through curriculum improvement. The proposal includes a technical short-term evaluation for the proposed tasks and a middle-term evaluation that extends beyond the duration of the project and includes plans for peer-reviewed papers documenting the experience and the impact of the facility on the learning outcomes. The proposal includes plans for maintenance/sustainability beyond the life of the project using internal funds (course/lab fee budget). The new facilities are complementary to the existing ones, and will help improve their utilization and useful lifetime by shifting the computational work (previously homed in lab workstations) to servers (less in number, but much more capable than the peripheral workstations). This would allow for the less-capable workstations to be used for a longer time without the need for expensive upgrades. The team members have strong academic records and should be able to execute the project with competence. Full Funding is recommended.

**Ranked: #2 in Targeted Enhancement**

**177ENH-18      Xavier University      Humanities**

**Title: Performance Studies Mobile Laboratory: An Interdisciplinary Teaching and Research Lab**

**Request: \$196,854      Recommendation: \$196,854**

This project seeks to support a mobile performance studies lab (PSL) for an interdisciplinary performance studies program. The lab will support curricular and teaching goals and provide greater community outreach. The objectives are measurable and clearly outlined. The work plan is doable. Specific tasks are identified and assigned to specific team members. Significant impact on curriculum and instruction is likely, allowing more innovative teaching and expanding offerings of workshops/courses. This is a unique program in the State, and it is likely to aid in recruitment, especially

of minority students. The project promotes interdisciplinary learning across various majors. There is a strong potential of impact on the cultural landscape of the community. The proposal goals are directly related to the mission of the unit. In terms of evaluation, specific metrics are identified for goals and objectives. Annual funds are allotted for maintenance and technical supplies, which should ensure sustainability. All team members are qualified to complete the project. The budget is detailed and all expenses justified. Full funding is recommended.

**Ranked: #3 in Targeted Enhancement**

**086ENH-18      LSUHSC New Orleans      Health & Medical Sciences**

**Title: Enhancing Advanced Practice Registered Nursing Education to Improve Readiness for Professional Practice**

**Request: \$126,047      Recommendation: \$126,047**

This proposal from the LSUHSC-NO School of Nursing (SON) seeks to purchase a needed ultrasound unit and a fiber-optic bronchoscopy simulator, as well as to provide support for training of faculty and students. LSUHSC-NO has developed a robust nursing program that includes training for nurse practitioners and registered nurse anesthetists. The principal investigator argues that acquisition of this equipment will enable the SON to provide training to these two groups of students in skills that facilitate safe, advanced practice of nursing care. The First-Round Health & Medical Sciences Panel was enthusiastic, providing a score consistent with a proposal that “should be considered for funding above all others.” They cited strengths that include consistency of the project with the goals of the SON, a clear work plan, and compelling likelihood that the project will enhance the curriculum. There were very minor concerns about the details for sustaining the program after the funding period. The proposal is well organized and contains a persuasive plan that will fill an important gap in the current nursing program. Full funding is recommended.

**Ranked: #4 in Targeted Enhancement**

**163ENH-18      University of Louisiana at Lafayette      Humanities**

**Title: Preserving Our Past: The History Lab & Louisiana Disaster Response**

**Request: \$48,929      Recommendation: \$48,929**

This proposal seeks funds to create the History Lab to train students and faculty in the practice of historic preservation and digitization. It would aid vulnerable communities in preserving history. This project aligns well with the department's mission to tell the stories of the region's cultures through public history initiatives. The work plan is clear, with responsible members delineated. However, it does depend on successful hiring of a Director of Public History, which is currently underway. This is an ambitious project to launch the initiative, but it can be accomplished. The project will have a direct impact on student learning and most likely also affect recruitment and retention. Long-term impacts may provide opportunities for students for 14-15 semesters. The project will increase faculty research productivity and improve their ability to secure additional funding. The impact on students, faculty and communities relates directly to the program's mission. The metrics for evaluation are clear and reasonable. In addition to evaluation of facilities and workshops, the department will assess usage of

digital resources in graduate and undergraduate courses, collaborations with other units, and student research activity. Institutional funds are promised and the larger project is supported in part by a charitable trust. Plans for maintenance and sustainability are in place. All team members bring appropriate expertise and background to this project. For the budget, the expenses are clearly stated and justified. Full funding is recommended.

**Ranked: #5 in Targeted Enhancement**

**066ENH-18      Louisiana State University Agricultural Center    Agricultural Sciences**

**Title:** Strengthening Rheology, R2R Film Forming and Physi-sorption Facility for Nanocellulose Based Materials at Louisiana Forest Products Development Center

**Request:** \$167,132      **Recommendation:** \$167,132

This proposal seeks to establish capability in nanocellulose processing through the development of a multi-purpose research facility in nanocellulose-based materials at the LSU Ag Center. The goals are well articulated. The objectives related to teaching, research and outreach activities are clearly stated. Several major research projects at LSU/LSU Ag Center, as well as teaching, research and outreach programs, will benefit from the facility. The project timeline and schedule are clearly laid out. The timeline is outlined by objective. For teaching and research activities, each responsible party is listed. The requested equipment bridges the gap in advanced rheology, film forming and microstructure analysis among various academic units at LSU. It also enhances new curricula and instructional development in materials, chemistry, engineering and other related fields. The project allows investigators to provide graduates and undergraduates the opportunity to acquire formal training and hands-on experience in modern material processing techniques, as well as the opportunity to develop an undergraduate curriculum in forest products. Additional benefits include opportunities for faculty and workforce development in multiple areas. Evaluation metrics are clearly presented and quantifiable, including those beyond the timeframe of this project. A comprehensive approach was described for sustaining the benefits beyond the life of the program. The team is well qualified. The budget is reasonable and clearly described. Full funding is recommended.

**Ranked: #6 in Targeted Enhancement**

**067ENH-18      Louisiana State University and A&M College    Biological Sciences**

**Title:** Infrastructure improvements to enhance the preservation and accessibility of the Collection of Genetic Resources, an LSU treasure used in research and education at the Museum of Natural Science

**Request:** \$199,827      **Recommendation:** \$162,027

This proposal seeks to purchase additional liquid nitrogen-based, large-scale freezers and associated infrastructure in support of the Collection of Genetic Resources (CGR) at the LSU Museum of Natural Science. The CGR is an international resource for providing frozen biological tissue samples, particularly in ornithology and more generally in vertebrate biology. The principal investigator points out that he and his colleagues have been forced to store some samples in less-than-optimal conditions because of a shortage of liquid nitrogen freezer space. As a result, these samples are slowly deteriorating. The First Round Biological Sciences Panel found the project to be meritorious, providing a score consistent with a

proposal that “should be considered for funding above all others.” The panel cited strengths that include consistency of the project with the goals of the museum, a clear work plan, and the recognition that compromising the Collection would be a great loss to the scientific community. Although the Division of Zoology and the CGR have a clear and documented impact on research, the role the CGR plays in the curriculum is less well documented. Beyond providing a representative example of a student’s research project, little data are offered on the direct impact on education. Overall the proposal is well organized and sets forth a persuasive plan that addresses a specific and time-sensitive need. Although the CGR is housed in the museum, its contributions to the University’s mission seem clear, both within LSU and beyond. That being said, there are portions of this request that would be considered remodeling or renovation, which the funding program does not allow. One could argue about where the boundaries fall between the purchase of new equipment and the renovations required for its installation (*i.e.*, external storage tanks, monitoring systems, and a move to a new room), but regardless of how things are divided, a substantial part of the requested funds is earmarked for “brick and mortar” improvements. Reduced funding of \$162,027 is recommended with no funding recommended for disallowed items related to construction and renovation, including the new partition wall, the exterior bollards, and exterior fencing. Remaining reductions are to be made at the discretion of the principal investigator.

**Ranked: #7 in Targeted Enhancement**

**139ENH-18      Southern University A&M      Engineering B**

**Title:** Enhancement of Materials Research and Education through the Acquisition of High-Performance Servo-Hydraulic Tensile and Fatigue Test System.

**Request:** \$200,000      **Recommendation:** \$200,000

This proposal seeks funds to acquire a testing machine to replace an older system. This is a well-developed proposal from a strong group of investigators with a significant amount of sponsored research that would benefit from the project. The equipment to be purchased will impact education and research in the Mechanical Engineering department. The condition of the existing equipment is discussed sufficiently to justify the proposed purchase. The project aligns very well with the departmental and institutional mission. While the work plan is generally very clear and reasonable, another layer of detail on the course modules would have further enhanced the proposal. Reasonable assessment metrics are identified for measuring the impact on research productivity and educational efficacy. The management and long-term maintenance plans are very clear. The unit has significant experience in managing such facilities to ensure they have maximum impact on the University and are financially sustainable. The equipment is highly synergistic with several major research programs, and it is clear that this research area will be a long-term emphasis of the unit. The team members are highly qualified. Full funding is recommended.

**Ranked: #8 in Targeted Enhancement**

**060ENH-18 Louisiana State University Agricultural Center Agricultural Sciences**

**Title: Acquisition of a Laser Diffraction Particle Size Analyzer**

**Request: \$111,860 Recommendation: \$111,860**

This proposal seeks to acquire a particle size analyzer. The work plan is well described, with responsibilities and roles of the investigators detailed. It is clearly outlined who will be in charge of what aspects pertaining to transitioning from the old unit to the new unit. The timeline is conservative and accounts for the length of time required to bid a piece of equipment like this. The project team has outlined plan A and plan B, depending on whether the old unit is still operational and can be used for calibration of the new unit. This is a good approach to planning for the unexpected. The impact statement is well written and includes the impact of the new equipment on research and extension activities and the graduate program. It clearly describes the means of generating resources through pay-to-use services for projects, faculty and student development programs, and the economic impact on Louisiana. It is well delineated how the equipment will positively impact faculty productivity, research, student engagement and the workforce (both training students and members of the sugar cane industry). It incorporates the program's significance within the economic value of the sugar cane industry to Louisiana. Having current equipment available to meet research, teaching, and training needs is important to maintain this substantial industry. Likewise, having a lab available to run samples (for a fee) is a good service that the state can provide to the members of this locally important industry. The evaluation plan and metrics for assessment are well written, with a reasonable timeline of activities and expectations. The evaluation plan is straightforward and measurable, and it is noted that long-term success cannot be captured in the allotted timeframe. The particle size analyzer is a critical component of this lab and necessary for it to fulfill its mission. Collaborations with faculty holding large federal grants and working with other states and organizations shows the need and important role it plays. This should lend to a sustainable future. The investigators are well qualified to implement the project. The budget is reasonable and is appropriate for what is needed. It is presented in a logical, easy-to-follow method. Institutional matching funds are also provided. Full funding is recommended.

**Ranked: #9 in Targeted Enhancement**

**058ENH-18 Louisiana College Humanities**

**Title: Enhancing the Collaborative Learning Environment in the Division of Humanities**

**Request: \$17,766 Recommendation: \$17,766**

The Division of Humanities seeks funds to enhance its collaborative learning environments, specifically for English, Spanish and French classes. Funding would allow all classrooms to facilitate collaborative learning, which is linked to the division's mission. The objectives are straightforward and measurable. The tasks outlined are clearly defined and doable; categories of individuals rather than specific team members are identified in some cases. It is unclear whether the number of students projected to be impacted (568) refers just to those currently being taught in these four classrooms, since some students are taught in classrooms already equipped for collaborative learning. Regardless, since these courses are taken by students across majors, the impact is widespread. It should be noted that other classrooms are currently designed for collaborative learning, so students are exposed to these opportunities. Evaluation is based on satisfaction surveys and grade improvements. Once purchases are installed, maintenance

should be minimal. Team members teach in a collaborative manner and bring years of teaching experience to the project. The budget requests are fairly minimal and are reasonable. Full funding is recommended.

**Ranked: #10 in Targeted Enhancement**

**131ENH-18      South Louisiana Community College      Targeted Workforce**

**Title: International School of Aviation Excellence [ISAE] Technological Advancement**

**Request: \$19,093      Recommendation: \$19,093**

The project's goals are clearly stated, reasonable, and related to the mission statement of the School of Aviation Excellence. The work plan is appropriate and well delineated regarding what work will be done, when and by whom. While there could have been more detail provided on the nature of the student hands-on training using the new software and equipment, the activities are straightforward, well designed and appropriate to meet the stated goals. The proposal does a very good job of articulating the project's impact on existing resources, curriculum and instruction, workforce development, faculty development, students, and regional economic development. The evaluation measures seem appropriate for the activities identified for the project. They are based on metrics that are relevant for the setting and nature of the proposed intervention. The department has clearly articulated plans for how it will maintain the equipment and manage required software updates. An annual subscription renewal will be incorporated into ongoing budget line items after the initial grant period. Team members are highly qualified. The budget is modest but appropriate and the explanation of the project's relationship to mission is clear. All funds are requested for equipment, software, and minor shipping and handling charges. The bids for the requested equipment are well documented and reasonable. Full funding is recommended.

**Ranked: #11 in Targeted Enhancement**

**165ENH-18      University of Louisiana at Lafayette      Physics**

**Title: Organic Molecule Imaging at the Louisiana Accelerator Center [OMILAC]**

**Request: \$197,675      Recommendation: \$197,675**

This proposal from the Louisiana Accelerator Center seeks funds for the fabrication of a unique MeV system, an imaging instrument/technique for organic molecules. It is well worth funding. The goals and objectives are well stated and aligned. The timeline for the proposal is clearly described and organized in eight clearly described steps. A combination of purchases, long-term leases, design and assembly makes it possible to carry out the resulting project at much lower cost. The tasks are reasonably distributed among PIs. This unique equipment will impact research capabilities and add significant new avenues of research. Several research groups, including physics, geology, biology and chemistry, will be impacted. There are currently only a few similar systems worldwide, and none in the United States. The evaluation plan is adequate. The sustainability plan is well developed and the budget is reasonable. Full funding is recommended.



**Ranked: #12 in Targeted Enhancement**

**101ENH-18      Louisiana Tech University      Humanities**

**Title: Digital Humanities Initiative, Louisiana Tech University**

**Request: \$20,197      Recommendation: \$20,197**

This project seeks to create the Digital Humanities Initiative, which will provide studio space to produce student-created digital projects (podcasts and YouTube videos). The project will teach students digital skills that align with the unit's mission, which includes promoting quality teaching, creative activity and public service. The work plan is clear, although allocating only one month to repurpose studio space seems ambitious. Speakers are already selected and the timeline for the presentations is set. The impact on student learning and faculty teaching is likely to be significant. Competitiveness of graduates for workforce opportunities should be enhanced due to students' development of professional digital portfolios. The impact on teaching and learning directly aligns with mission of the Center. Project evaluation is outlined in general terms. There will be a one-time outlay of funds to install and refurbish equipment and the studio space; the project should be sustainable thereafter with routine equipment updates as needed. All participants bring appropriate expertise and experience to this project. The budget is efficient and all items are properly justified. Full funding is recommended.

**Ranked: #13 in Targeted Enhancement**

**043ENH-18      Centenary College      Social Sciences**

**Title: Centenary Square Flexible Learning Environment**

**Request: \$28,344      Recommendation: \$18,000**

This project involves renovating an existing classroom space to accommodate collaborative learning. The goals are clearly aligned with the department's mission to develop students' learning by increasing opportunities to engage in experiential and collaborative learning. There is a clear work plan with specific tasks outlined and responsible parties identified. A realistic time frame is provided for completion of physical modifications and equipment installation. This project will enhance the learning environment for students in mostly upper-level courses and will enhance the teaching experience for faculty. The proposal impacts the community, graduates' competitiveness in the workplace, and faculty research. Impacts on learning and teaching are in line with the mission of the department. For evaluation, student and faculty perceptions will be assessed, though metrics are presented only in general terms. Once renovations occur, classroom space should be sustainable with routine upkeep. All team members bring appropriate expertise and skills to this project. The budget is clear and all expenses are justified, though the request for construction supplies does not appear to align with the "no bricks and mortar" policy outlined in the RFP. Institutional matching funds are provided for renovation labor. Partial funding of \$18,000 is recommended with no funding for supplies. The institutional match should be maintained in full.



**Ranked: #14 in Targeted Enhancement**

**041ENH-18      Baton Rouge Community College      Targeted Workforce**

**Title: BRCC PTEC Targeted Industry Project**

**Request: \$96,660      Recommendation: \$96,660**

The goal of this proposal is clearly articulated and directly related to the mission of the Process Technology (PTEC) Department. The accompanying objectives feed into the successful completion of the goal, are measurable and include specific targets. The work plan is comprehensive and describes activities that should lead to the desired outcomes. The responsible individuals are clearly identified and the timeline is specified and reasonable. The number of personnel incorporated will assist in ensuring the success of all activities. The impact statement makes a powerful argument for the significant value of providing students with hands-on experience with this type of equipment, contributing to workplace safety and ensuring that new workers will have the ability to troubleshoot when confronted with new or older equipment. The integration of old and new equipment enhances the curriculum and is responsive to recommendations of the PTEC Advisory Council. Faculty will also receive specialized training on the new equipment and will learn how to embed the use of the new equipment into their courses. Use of scaled models in the revised curriculum positions students and the program to develop a better understanding of processes and equipment. The evaluation plan is clear and utilizes solid data, though the timeline for impacts and student success increases seems ambitious. Sustainability should be more thoroughly addressed. Given that models and equipment may be handled and used by many students, a plan for replacements should be developed. The proposed team members are well qualified to implement the work plan. It is a major positive that the team has taken advantage of significant input from business and industry members on their Program Advisory Committee. The budget is specific and well written, strongly justifying the requested equipment. Particularly impressive is that the project team has carefully identified not just the "latest and greatest" equipment, but models that are specifically designed to be used in training settings. The budget narrative is extremely helpful in identifying what each piece of equipment does and why it is important, so even a non-engineer can understand the request. Full funding is recommended.

**Ranked: #15 in Targeted Enhancement**

**176ENH-18      University of New Orleans      Engineering B**

**Title: Cost Effective Helium Recovery System for Low Temperature Magnetic, Electronic and Thermal Measurements**

**Request: \$125,212      Recommendation: \$125,212**

The overall proposal is well articulated. It identifies limited direct research impact, but clearly describes the recurring impact on research from cost savings and as such is an ideal investment. The system is essential for the unit. Because of the shortage of helium and related rising costs, this type of equipment is difficult to get from other funding sources, but is essential as part of the basic research infrastructure for any unit involved in low-temperature physics. The work plan is clearly described. The proposed helium recovery unit will make low-temperature measurements more affordable and, therefore, more realistic to integrate into research programs. The potential impact could have been more easily assessed

if current usage statistics on the PPMS and Squid had been provided. It would also have been useful to have calculated the change in usage fees assuming a constant helium price. The efficacy of the system will be monitored through helium recovery percentage. Careful tracking of usage hours, number of users and resulting publications will provide quantitative assessment of research impact. The system will be integrated into the Advanced Materials Research Institute (AMRI), which is a well-managed user facility with a cost-recovery model to support the instrumentation and staff. The team seems capable, as evidenced by their current funding and scholarship. Full funding is recommended.

**Ranked: #16 in Targeted Enhancement**

**053ENH-18 Fletcher Technical Community College Health & Medical Sciences**

**Title: Breathing New Life into Cardiopulmonary Care Science Program**

**Request: \$73,170 Recommendation: \$73,170**

This proposal seeks to purchase a high-fidelity simulation system for use in the Associate of Science in Cardiopulmonary Care program at Fletcher Technical Community College, as well as to provide support for training of faculty and students. The program has established a successful track record of training and job placement since its creation in 2010. The principal investigator argues that acquisition of this equipment will enable the program to provide realistic practice in content areas that are in need of improvement. Although the reviewers in the First Round Health & Medical Sciences Panel had some suggestions, overall the evaluation was positive, providing a score consistent with a “very competitive, strong” proposal. Reviewers cited strengths that include clear goals of the project that are consistent with those of the program, a strong, reasonable work plan, and the likelihood that the project will have a significant positive impact. There was, however, a minor concern that a second partner institution has not been identified. There was also some concern that more extensive data collection of student outcomes following graduation is not proposed. Overall, the proposal provides a straightforward plan to improve training in important areas that were performing at less than the national average when Fletcher students were evaluated by standardized exam in 2017. Full funding is recommended.

**Ranked: #17 in Targeted Enhancement**

**169ENH-18 University of Louisiana at Monroe Health & Medical Sciences**

**Title: ULM Nursing Simulation Center Enhancement**

**Request: \$92,462 Recommendation: \$92,462**

This project proposes to replace obsolete high-fidelity simulation systems in the School of Nursing (SON) at ULM, as well as to provide support for training for faculty and students. The SON purchased two simulators in 2004, but they are now obsolete. The principal investigator argues that the acquisition of new equipment will facilitate exposure of students to critical, but infrequent clinical experiences. These curricular improvements coincide with a nationwide effort to increase the number of nursing graduates. The First-Round Health & Medical Sciences Panel was, overall, positive in their evaluations, providing a score consistent with a “very competitive, strong” proposal. Nevertheless, reviewers differed somewhat in their identification of strengths and weaknesses; though both were satisfied with most aspects of the proposal, they differed over whether the economic impact of nurses was sufficiently discussed and had

minor questions about the proposed foundation that would contribute to the sustainability of the project. Overall, the proposal presents a straightforward plan to upgrade a successful program that is facing the challenge of dealing with necessary, but increasingly outdated equipment. Full funding is recommended.

**Ranked: #18 in Targeted Enhancement**

**111ENH-18      Nicholls State University      Biological Sciences**

**Title: Upgrading Autoclave for Microbiology Education**

**Request: \$42,042      Recommendation: \$42,042**

This proposal seeks to replace a 20-year-old obsolete autoclave and associated infrastructure in support of the Microbiology program at Nicholls State University. The Department of Biological Sciences serves about 500 biology majors. The principal investigator describes a departmental autoclave that is no longer supported by the manufacturer and has become increasingly unreliable. The new unit will immediately support 18 lab courses and allow instructors more time to interact with students due to less lab preparation time. The First-Round Biological Sciences Panel found much to like about the project, providing a score consistent with a “very competitive, strong” proposal. Not surprisingly, they cited the essential nature of an autoclave in meeting the teaching and research needs of this program. Full funding is recommended.

**Ranked: #19 in Targeted Enhancement**

**098ENH-18      Louisiana Tech University      Agricultural Sciences**

**Title: Enhancing Tech Farm through the Development of a Small Ruminant Center**

**Request: \$25,305      Recommendation: \$25,305**

The primary goal of this proposal is to secure equipment and supplies for the development of a small ruminant center (SRC) on Tech Farm that will offer practical and innovative experiential learning opportunities through course work, research, and outreach programs. This center will provide numerous learning opportunities through a wide range of course offerings and the ability to conduct research trials due to improved housing for experimental design purposes. Specific goals and supporting objectives are clearly defined and should be achievable within the proposed timeframe. The work plan identifies specific objectives (associated with each goal), activities, responsible persons, and completion benchmark timeframes. The small ruminant industry has been growing steadily as the ethnic diversity in the U.S. has expanded. This relatively small investment will have a measurable impact, especially on student education (which aligns with the departmental mission) through enhanced coursework and small-scale applied research studies. This will have a positive effect on both workforce development and faculty productivity. Some of the proposed evaluation metrics are quantifiable, whereas some are more difficult to measure. Baseline metrics will need to be collected to show 'increased' outcomes. Specific evaluation plans are assigned to each objective, which will help identify whether specific goals are achieved. Sale of livestock, donor support, and a small university budget contribution will support continued maintenance. The one investigator listed for the project has a strong background in sheep and goat production. The only concern is that if this faculty member leaves, it is not clear that someone is in line to maintain the facility. Other faculty need to be involved moving forward to insure the long-

term sustainability of the center. A letter from the Dean is included that supports the need for the center. The budget is very reasonable in its request. An institutional match of \$2,500 is provided. Full funding is recommended.

## **Appendix A**

### **Summary List of Proposals**

**Proposals Submitted to the Departmental Enhancement Program - Comprehensive  
for the FY 2017-18 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Primary Discipline	Duration	Amount Requested					
							Year 1	Year 2	Year 3	Year 4	Year 5	Total
001ENH-18	Dr. Melvena Wilson	Dillard University	Curriculum Infusion: "Reimaging Public Health at Dillard University"	Education	Health and Medical Sciences	3 Year(s)	\$300,000.00	\$200,000.00	\$200,000.00	\$0.00	\$0.00	\$700,000.00
002ENH-18	Dr. Charles Boeneke	Louisiana State University Agricultural Center	Workforce Readiness and Economic Development for the Louisiana Dairy Value Added Processing Industry	Workforce	Agricultural Sciences	5 Year(s)	\$300,000.00	\$200,000.00	\$200,000.00	\$199,500.00	\$100,000.00	\$999,500.00
003ENH-18	Dr. Philip Stouffer	Louisiana State University Agricultural Center	How important are Louisiana's coastal forests for migrating landbirds? Integrated enhancement of research, teaching, and coastal planning at the School of Renewable Natural Resources based on Louisiana's unique role in a trans-continental system	Research	Agricultural Sciences	5 Year(s)	\$141,416.00	\$174,816.00	\$174,816.00	\$122,816.00	\$43,500.00	\$657,364.00
004ENH-18	Dr. Melissa Beck	Louisiana State University and A & M College	ABLE - Analytics for Brain scientists Leveraging Entrepreneurial skills	Education	Social Sciences	5 Year(s)	\$194,561.00	\$199,743.00	\$193,450.00	\$195,450.00	\$195,450.00	\$978,654.00
005ENH-18	Dr. Rhonda Cardin	Louisiana State University and A & M College	Enhancement of Biomedical Research at LSU School of Veterinary Medicine	Research	Biological Sciences	5 Year(s)	\$288,287.00	\$197,070.00	\$176,357.00	\$176,357.00	\$161,357.00	\$999,428.00
006ENH-18	Dr. Elena Castro	Louisiana State University and A & M College	Forum for Growing Sexuality Studies	Research	Humanities	5 Year(s)	\$113,540.00	\$79,940.00	\$21,650.00	\$79,940.00	\$21,650.00	\$316,720.00
007ENH-18	Prof. Mostafa Elseifi	Louisiana State University and A & M College	Establishment of a Non-Destructive Testing Laboratory at LSU for Infrastructure Condition Assessment and Evaluation	Research	Engineering B	2 Year(s)	\$90,000.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$150,000.00
008ENH-18	Prof. Kevin McPeak	Louisiana State University and A & M College	Advanced Device Fabrication for Science and Engineering Research and Education at Louisiana State University	Research	Engineering B	5 Year(s)	\$235,615.00	\$180,500.00	\$162,400.00	\$199,500.00	\$129,700.00	\$907,715.00
009ENH-18	Prof. James Moroney	Louisiana State University and A & M College	Acquisition of a Super-Resolution Upgrade for an SP8 Confocal Microscope used in Research and Teaching at Louisiana State University-Baton Rouge	Research	Biological Sciences	2 Year(s)	\$300,000.00	\$112,965.00	\$0.00	\$0.00	\$0.00	\$412,965.00
010ENH-18	Dr. Dimitris Nikitopoulos	Louisiana State University and A & M College	Comprehensive Enhancement of Mechanical, Industrial and Materials Engineering at LSU	Research	Engineering B	5 Year(s)	\$300,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$100,000.00	\$1,000,000.00
011ENH-18	Dr. Amitava Roy	Louisiana State University and A & M College	Fast X-Ray Diffraction in Extreme Environments	Research	Physics	5 Year(s)	\$296,750.00	\$200,000.00	\$190,000.00	\$20,000.00	\$0.00	\$706,750.00
012ENH-18	Dr. Adelaide Russo	Louisiana State University and A & M College	Research-Integrated Curriculum Reform	Education	Humanities	5 Year(s)	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$1,000,000.00
013ENH-18	Prof. Kebede Beshera	Louisiana State University at Eunice	Laboratory Capacity Enhancement for Genetics and Cell Biology Instruction at Louisiana State University at Eunice [LSUE]	Education	Biological Sciences	2 Year(s)	\$122,159.00	\$3,467.00	\$0.00	\$0.00	\$0.00	\$125,626.00
014ENH-18	Dr. Hamilton Farris	Louisiana State University Health Sciences Center - New Orleans	Enhancing neuroscience discoveries and the neuroscientist pipeline in Louisiana at the LSU Neuroscience Center of Excellence	Research	Health and Medical Sciences	5 Year(s)	\$185,800.00	\$185,800.00	\$188,300.00	\$188,300.00	\$188,300.00	\$936,500.00
015ENH-18	Dr. Francis Giacona	Louisiana State University Health Sciences Center - New Orleans	Acquisition of a multi-material, multi-color 3D printer to enhance dental education at the LSUHSC School of Dentistry	Education	Health and Medical Sciences	3 Year(s)	\$300,000.00	\$45,000.00	\$45,000.00	\$0.00	\$0.00	\$390,000.00
016ENH-18	Dr. Patricia Molina	Louisiana State University Health Sciences Center - New Orleans	Alcohol and Drug Abuse Center of Excellence	Research	Health and Medical Sciences	5 Year(s)	\$273,438.00	\$196,938.00	\$196,938.00	\$173,438.00	\$159,238.00	\$999,990.00
017ENH-18	Dr. Karen Stokes	Louisiana State University Health Sciences Center Shreveport	Centers Enhancement Grant	Research	Health and Medical Sciences	5 Year(s)	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$1,000,000.00
018ENH-18	Dr. Niel Crews	Louisiana Tech University	Enhancing the IfM by Strengthening Thrust Area Research [IfM-STAR]	Research	Engineering B	5 Year(s)	\$294,705.00	\$195,200.00	\$196,675.00	\$200,000.00	\$110,221.00	\$996,801.00
019ENH-18	Dr. David Hall	Louisiana Tech University	Equipment for Sophomore Living With The Lab	Education	Engineering B	3 Year(s)	\$294,127.00	\$170,760.00	\$85,534.00	\$0.00	\$0.00	\$550,421.00
020ENH-18	Dr. Duane Smith	Nicholls State University	Enhancing Biochemistry Experience for Biological Science Majors	Education	Biological Sciences	3 Year(s)	\$288,000.00	\$200,000.00	\$200,000.00	\$0.00	\$0.00	\$688,000.00
021ENH-18	Dr. Paula Currie	Southeastern Louisiana University	Interprofessional Education and Collaborative Practice: Real World Ready	Workforce	Health and Medical Sciences	5 Year(s)	\$271,608.00	\$176,546.00	\$179,431.00	\$186,138.00	\$186,139.00	\$999,862.00
022ENH-18	Dr. Joe Omojola	Southern University at New Orleans	Comprehensive Enhancement:The Technological Enhancement of Classroom Learning and Training	Education	Physics	2 Year(s)	\$161,164.00	\$0.00	\$0.00	\$0.00	\$0.00	\$161,164.00
023ENH-18	Dr. Harry Russell	Southern University at New Orleans	"Enhancing Student Success, Persistence, and Graduation Rates Through a Technology-Based, Holistic Student Support Program	Education	Social Sciences	1 Year(s)	\$172,613.00	\$0.00	\$0.00	\$0.00	\$0.00	\$172,613.00

**Proposals Submitted to the Departmental Enhancement Program - Comprehensive  
for the FY 2017-18 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Primary Discipline	Duration	Amount Requested					
							Year 1	Year 2	Year 3	Year 4	Year 5	Total
024ENH-18	Prof. Vanessa White	Southern University at Shreveport	Capacity Building and Transformation of Information Technology Programs of Study at SUSLA	Workforce	Targeted Workforce	5 Year(s)	\$299,062.00	\$199,952.00	\$199,822.00	\$151,357.00	\$149,617.00	\$999,810.00
025ENH-18	Prof. Ricardo Cortez	Tulane University	Enhancement of Tulane's Center for Computational Science Research Infrastructure And Sustainability	Research	Engineering B	5 Year(s)	\$1,354,650.00	\$134,131.00	\$131,962.00	\$134,131.00	\$54,662.00	\$1,809,536.00
026ENH-18	Dr. Jill Daniel	Tulane University	Enhancement of Core Research Facilities in the Tulane Brain Institute	Research	Health and Medical Sciences	5 Year(s)	\$240,946.00	\$200,000.00	\$200,000.00	\$174,717.00	\$184,337.00	\$1,000,000.00
027ENH-18	Dr. Amanda Garcia	Tulane University	Technology and Curriculum Augmentation of a Workplace-Focused Digital Design Program	Workforce	Targeted Workforce	5 Year(s)	\$292,206.00	\$197,578.00	\$199,960.00	\$193,360.00	\$113,998.00	\$997,102.00
028ENH-18	Prof. Donald Gaver	Tulane University	Bioinnovation to Stimulate Collaborative Research and Enhance Student Career Development	Education	Engineering B	5 Year(s)	\$256,050.00	\$192,691.00	\$193,345.00	\$162,011.00	\$154,692.00	\$958,789.00
029ENH-18	Dr. Diyar Talbayev	Tulane University	Emergent quantum materials: from fundamental properties to multi-functional devices.	Research	Physics	5 Year(s)	\$299,995.00	\$185,441.00	\$164,062.00	\$131,617.00	\$102,604.00	\$883,719.00
030ENH-18	Dr. Christopher DuCoin	Tulane University Health Sciences Center	Medical Simulation Center Enhancement for Complex Training and Performance Measurement at the Tulane School of Medicine	Education	Health and Medical Sciences	3 Year(s)	\$298,760.00	\$198,435.00	\$112,382.00	\$0.00	\$0.00	\$609,577.00
031ENH-18	Dr. Hua Lu	Tulane University Health Sciences Center	Enhancement of Biochemistry, Molecular and Cell Biology at Tulane University School of Medicine	Research	Biological Sciences	5 Year(s)	\$300,000.00	\$166,985.00	\$146,627.00	\$99,438.00	\$102,421.00	\$815,471.00
032ENH-18	Dr. Luis Navar	Tulane University Health Sciences Center	Enhancement of Departmental Infrastructure through Translational Synergistic Interactions with Hypertension and Renal Center of Excellence	Research	Health and Medical Sciences	5 Year(s)	\$299,900.00	\$197,340.00	\$197,340.00	\$197,840.00	\$100,000.00	\$992,420.00
033ENH-18	Dr. Michael Gervais	University of Louisiana at Lafayette	HIGH-DEFINITION [HDTV] ENHANCEMENTS FOR TELEVISION PRODUCTION STUDIO AND CONTROL ROOM	Workforce	Humanities	4 Year(s)	\$298,458.00	\$193,136.00	\$181,473.00	\$169,766.00	\$0.00	\$842,833.00
034ENH-18	Dr. Ritwij Kulkarni	University of Louisiana at Lafayette	Modernization of Undergraduate Laboratories for Course-based Research Engagement [ModUL-CoRE] at the Department of Biology at UL Lafayette	Education	Biological Sciences	4 Year(s)	\$262,220.00	\$188,730.00	\$140,655.00	\$105,975.00	\$0.00	\$697,580.00
035ENH-18	Dr. Robert Michael	University of Louisiana at Lafayette	Enhancing psychological laboratories to facilitate behavioral research	Research	Social Sciences	5 Year(s)	\$207,160.00	\$28,000.00	\$28,000.00	\$75,765.00	\$28,000.00	\$366,925.00
036ENH-18	Dr. Abdennour Seibi	University of Louisiana at Lafayette	The Establishment of an Educational and Research Barrier Lab at UL Lafayette	Education	Engineering B	4 Year(s)	\$145,627.00	\$152,229.00	\$125,887.00	\$200,000.00	\$0.00	\$623,743.00
037ENH-18	Dr. Paula Zeanah	University of Louisiana at Lafayette	Picard Center ACE Education and Research [PAER] Program	Education	Social Sciences	4 Year(s)	\$225,924.00	\$145,070.00	\$149,103.00	\$153,101.00	\$0.00	\$673,198.00
038ENH-18	Mr. Reggie Poche	University of New Orleans	Expanding Access, Enhancing Quality: Strengthening Digital Teaching and Learning in the Department of English and Foreign Languages at the University of New Orleans	Education	Humanities	5 Year(s)	\$81,068.00	\$175,750.00	\$136,750.00	\$113,800.00	\$113,800.00	\$621,168.00
039ENH-18	Dr. Laura Scaramella	University of New Orleans	Evaluating the efficacy of nonprofit organizations' programming in reducing crime in the Greater New Orleans region	Research	Social Sciences	5 Year(s)	\$294,581.00	\$184,384.00	\$198,356.00	\$199,530.00	\$109,956.00	\$986,807.00

Total Number of Proposals submitted	39
Total Funds Requested for First Year	\$10,480,390.00
Total Funds Requested for Second Year	\$6,118,597.00
Total Funds Requested for Third Year	\$5,516,275.00
Total Funds Requested for Fourth Year	\$4,603,847.00
Total Funds Requested for Fifth Year	\$3,009,642.00
Total Funds Requested	\$29,728,751.00

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2017-18 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Single/Multidisciplinary	Primary Discipline	Amount Requested
040ENH-18	Mr. Rhett Poche	Baton Rouge Community College	BRCC ETEC/Graphic Arts Targeted Industry Project	Workforce	Single Discipline	Targeted Workforce	\$52,047.00
041ENH-18	Dr. Brandy Tyson-Polk	Baton Rouge Community College	BRCC PTEC Targeted Industry Project	Workforce	Single Discipline	Targeted Workforce	\$96,660.00
042ENH-18	Mrs. Jennifer Lawrence	Bossier Parish Community College	BPCC Targeted Enhancement Grant -- Engineering Graphics	Workforce	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$200,000.00
043ENH-18	Dr. Amy Hammond	Centenary College	Centenary Square Flexible Learning Environment	Education	Single Discipline	Social Sciences	\$28,344.00
044ENH-18	Prof. Dana Kress	Centenary College	Multimedia Classrooms and Studio/Publication/Teaching Center for the Preservation and Promotion of Language and Culture in Louisiana	Education	Single Discipline	Humanities	\$49,643.00
045ENH-18	Dr. Ruby Broadway	Dillard University	Waterway Alliance for Training in Environmental Research [WATER]	Education	Multidisciplinary	Biological Sciences	\$140,997.00
046ENH-18	Dr. Steve Buddington	Dillard University	EDUCATIONAL Enhancement of Dillard University Social Work Program	Education	Single Discipline	Social Sciences	\$89,426.00
047ENH-18	Dr. Sean Gibbs	Dillard University	Enhancement of Undergraduate Education in Social Sciences	Education	Multidisciplinary	Social Sciences	\$88,507.00
048ENH-18	Dr. Sean Gibbs	Dillard University	Workforce Continuing Education in Psychology	Workforce	Multidisciplinary	Social Sciences	\$48,527.00
049ENH-18	Mr. KEITH MORRIS	Dillard University	Enhancement of Film through Production and Post Production Labs	Education	Single Discipline	Humanities	\$195,884.00
050ENH-18	Dr. Casey Schreiber	Dillard University	Pilot program for Urban Water Management certificate	Education	Single Discipline	Social Sciences	\$49,773.00
051ENH-18	Dr. Ebony Turner	Dillard University	Development of an Emergency Preparedness and Disaster Response Certificate Program	Education	Single Discipline	Health and Medical Sciences	\$192,300.00
052ENH-18	Dr. Wodajo Welldaregay	Dillard University	Enhancing Students Educational Experience Through Undergraduate Research	Research	Single Discipline	Health and Medical Sciences	\$24,758.00
053ENH-18	Mr. Errol Champagne	Fletcher Technical Community College	Breathing New Life into Cardiopulmonary Care Science Program	Education	Single Discipline	Health and Medical Sciences	\$73,170.00
054ENH-18	Dr. Sonia Clarke	Fletcher Technical Community College	Enhancing and Expanding High-Fidelity Simulations in Nursing and Allied Health	Education	Single Discipline	Health and Medical Sciences	\$82,583.00
055ENH-18	Dr. Michael Ludwig	Franciscan Missionaries of Our Lady University	ENCASE: Enhancing the Gross ANatomy Knowledge, Student Engagement, and Cadaveric Perception Among NurSing and Allied HEalth Students	Education	Single Discipline	Health and Medical Sciences	\$68,659.00
056ENH-18	Dr. Elizabeth Christian	Louisiana College	Digital Enhancement of Media Platforms For High-Level College Instruction	Education	Single Discipline	Social Sciences	\$173,013.00
057ENH-18	Mrs. Jeanette Commagere	Louisiana College	Safer Patient Care and Better Program Outcomes Using High Fidelity Simulation	Education	Single Discipline	Health and Medical Sciences	\$157,000.00



**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2017-18 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Single/Multidisciplinary	Primary Discipline	Amount Requested
058ENH-18	Dr. Julie Driessen	Louisiana College	Enhancing the Collaborative Learning Environment in the Division of Humanities	Education	Single Discipline	Humanities	\$17,766.00
059ENH-18	Dr. Bayne Pounds	Louisiana College	Human Behavior Curriculum Enhancement through the Creation of Flexible, Collaborative Classrooms	Education	Single Discipline	Social Sciences	\$42,431.00
060ENH-18	Dr. Daira Aragon	Louisiana State University Agricultural Center	Acquisition of a Laser Diffraction Particle Size Analyzer	Research	Single Discipline	Agricultural Sciences	\$111,860.00
061ENH-18	Dr. Kayanush Aryana	Louisiana State University Agricultural Center	Micro, ultra and nano filtration equipment needed for the removal of unhealthy components and concentration of health beneficial components in liquid foods research and teaching.	Research	Multidisciplinary	Agricultural Sciences	\$144,593.00
062ENH-18	Prof. Kenneth Bondioli	Louisiana State University Agricultural Center	Enhancing Molecular Biology applications within the School of Animal Science	Research	Single Discipline	Agricultural Sciences	\$172,283.00
063ENH-18	Dr. William Kelso	Louisiana State University Agricultural Center	Purchase of a rapid phytoplankton identification system - FlowCAM	Research	Single Discipline	Agricultural Sciences	\$95,380.00
064ENH-18	Dr. Michael Stout	Louisiana State University Agricultural Center	Establishment of a Chemical Ecology Laboratory in the LSU Department of Entomology	Research	Single Discipline	Agricultural Sciences	\$199,236.00
065ENH-18	Dr. Terrence Tiersch	Louisiana State University Agricultural Center	Enhancement of Aquatic Germplasm and Genetic Resources Research and Technology Development within the School of Renewable Natural Resources	Research	Multidisciplinary	Agricultural Sciences	\$189,867.00
066ENH-18	Prof. Qinglin Wu	Louisiana State University Agricultural Center	Strengthening Rheology, R2R Film Forming and Physi-sorption Facility for Nanocellulose Based Materials at Louisiana Forest Products Development Center	Research	Single Discipline	Agricultural Sciences	\$167,132.00
067ENH-18	Dr. Robb Brumfield	Louisiana State University and A & M College	Infrastructure improvements to enhance the preservation and accessibility of the Collection of Genetic Resources, an LSU treasure used in research and education at the Museum of Natural Science	Research	Single Discipline	Biological Sciences	\$199,827.00
068ENH-18	Dr. David Burk	Louisiana State University and A & M College	Acquisition of an Inverted Live Cell Imaging System to Enhance the Research Competitiveness of Louisiana State University	Research	Single Discipline	Biological Sciences	\$95,557.00
069ENH-18	Dr. Elena Castro	Louisiana State University and A & M College	Modernizing Women's & Gender Studies	Education	Single Discipline	Humanities	\$58,101.00
070ENH-18	Dr. Kristine DeLong	Louisiana State University and A & M College	Stable Isotope Mass Spectrometer for Research and Teaching in Geography and Anthropology	Research	Single Discipline	Social Sciences	\$199,667.00
071ENH-18	Dr. Manas Ranjan Gartia	Louisiana State University and A & M College	Robotic Diagnostic Tools for Biomedical and Materials Applications using Endoscopic-Fiber Optics Raman and Fluorescence Spectroscopy	Research	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$94,060.00
072ENH-18	Dr. Gerald Knapp	Louisiana State University and A & M College	LSU Advanced Manufacturing Systems Minor and Manufacturing Unit	Education	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$186,177.00
073ENH-18	Dr. Kory Konsoer	Louisiana State University and A & M College	Acquisition of a shallow water sonar system to enhance riverine and coastal research and education	Research	Multidisciplinary	Humanities	\$153,010.00
074ENH-18	Dr. Chuanlan Liu	Louisiana State University and A & M College	Enhancing and Expanding Entrepreneurship in Creative Industries Using the Fully Automated Knitting Production System	Education	Multidisciplinary	Social Sciences	\$199,850.00
075ENH-18	Prof. Kevin McPeak	Louisiana State University and A & M College	Enhancing Nanoscience Research and Education at Louisiana State University with a Scanning Multiprobe Microscope	Research	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$158,536.00

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2017-18 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Single/Multidisciplinary	Primary Discipline	Amount Requested
076ENH-18	Dr. Shyam Menon	Louisiana State University and A & M College	Femtosecond Coherent Anti-Stokes Raman Spectroscopy [CARS] for mechanical and biomedical engineering research	Research	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$200,000.00
077ENH-18	Prof. William Monroe	Louisiana State University and A & M College	Integrated Equipment to Support Tissue Engineering and Systems Biology Research in Biological & Agricultural Engineering	Research	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$187,928.00
078ENH-18	Prof. Solimar Otero	Louisiana State University and A & M College	The LSU Summer Institute on Louisiana and Caribbean Studies in Cuba	Education	Single Discipline	Humanities	\$52,556.00
079ENH-18	Prof. Irina Shport	Louisiana State University and A & M College	Mining linguistic diversity in Louisiana for public engagement in language education and research	Research	Single Discipline	Social Sciences	\$53,421.00
080ENH-18	Prof. Phillip Sprunger	Louisiana State University and A & M College	Modernization of Infrastructure for Experimental Research and Education	Research	Single Discipline	Physics	\$150,547.00
081ENH-18	Dr. Casey Stannard	Louisiana State University and A & M College	Implementing Industrial Production Technology for Digital Apparel Product Development in the Classroom	Education	Single Discipline	Humanities	\$111,592.00
082ENH-18	Ms. Pamela Vinci	Louisiana State University and A & M College	Exhibition Enhancement for Instruction, Research, and Public Outreach at the LSU Textile & Costume Museum	Education	Single Discipline	Humanities	\$129,892.00
083ENH-18	Dr. David Vinyard	Louisiana State University and A & M College	Enhancement of the LSU electron paramagnetic resonance spectroscopy facility for biological research	Research	Single Discipline	Biological Sciences	\$96,120.00
084ENH-18	Dr. MUHAMMAD WAHAB	Louisiana State University and A & M College	Friction-Stir-Welding [FSW] Process Development Facility	Research	Multidisciplinary	Engineering B (Industrial, Materials, Mechanical)	\$195,000.00
085ENH-18	Mr. David Shanks	Louisiana State University at Alexandria	Mobile Video Production Control Center for the Enhancement of the Sports Broadcast & Communications Program at LSU-Alexandria	Education	Single Discipline	Social Sciences	\$198,333.00
086ENH-18	Dr. Laura Bonanno	Louisiana State University Health Sciences Center - New Orleans	Enhancing Advanced Practice Registered Nursing Education to Improve Readiness for Professional Practice	Education	Single Discipline	Health and Medical Sciences	\$126,047.00
087ENH-18	Dr. Alison Davis	Louisiana State University Health Sciences Center - New Orleans	Integrating an Electronic Health Record into Undergraduate Nursing High-Fidelity Simulations	Education	Single Discipline	Health and Medical Sciences	\$144,000.00
088ENH-18	Dr. Todd Tartavouille	Louisiana State University Health Sciences Center - New Orleans	Facilitating Academic Success for At-Risk Nursing Students on Their BSN Journey	Education	Single Discipline	Health and Medical Sciences	\$108,163.00
089ENH-18	Prof. Xiaoming Xu	Louisiana State University Health Sciences Center - New Orleans	Acquisition of a New LC-MS System to Enhance the Research Facility of LSUHSC School of Dentistry	Research	Single Discipline	Biological Sciences	\$199,961.00
090ENH-18	Dr. Suzanne Tinsley	Louisiana State University Health Sciences Center Shreveport	Geaux Up State Technology Expansion	Education	Single Discipline	Health and Medical Sciences	\$193,276.00
091ENH-18	Dr. Amy Erickson	Louisiana State University in Shreveport	Advancing awareness and appreciation of the Louisiana coast	Education	Single Discipline	Biological Sciences	\$44,404.00
092ENH-18	Miss. Victoria Hrody	Louisiana State University in Shreveport	Digital Visualization Lab for Biological Sciences	Education	Multidisciplinary	Biological Sciences	\$104,060.00
093ENH-18	Dr. Alireza Izaddoost	Louisiana State University in Shreveport	Cybersecurity Education and Hands-on Training for Employment in the Professional Cybersecurity Workforce	Workforce	Single Discipline	Targeted Workforce	\$99,100.00

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2017-18 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Single/Multidisciplinary	Primary Discipline	Amount Requested
094ENH-18	Dr. Alireza Izaddoost	Louisiana State University in Shreveport	Developing a Smart Farm System Using IoT Technology in Northwest Louisiana	Research	Multidisciplinary	Agricultural Sciences	\$95,165.00
095ENH-18	Dr. Kevin Jones	Louisiana State University in Shreveport	Better Teaching through Real-World Lessons: Enhanced School Psychology Training through Clinical Case Studies	Education	Single Discipline	Social Sciences	\$92,293.00
096ENH-18	Dr. Elisabeth Liebert	Louisiana State University in Shreveport	Real-World Writing: Implementing an Applied-Learning, Multi-Media Writing Concentration for Instructional Improvement and Workforce Development	Education	Single Discipline	Humanities	\$141,996.00
097ENH-18	Dr. Jane Jacob	Louisiana Tech University	Acquisition and Implementation of EEG and Eye Tracking Technology in Cognitive Neuroscience	Education	Single Discipline	Social Sciences	\$126,375.00
098ENH-18	Dr. Ashley Keith	Louisiana Tech University	ENHANCING TECH FARM THROUGH THE DEVELOPMENT OF A SMALL RUMINANT CENTER	Education	Single Discipline	Agricultural Sciences	\$25,305.00
099ENH-18	Dr. Jun-Ing Ker	Louisiana Tech University	A One-Piece Flow Approach to Enhance the Lean and Six Sigma Education Quality through Manufacturing Equipment Acquisitions and Upgrades	Education	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$101,500.00
100ENH-18	Prof. Adarsh Radadia	Louisiana Tech University	Acquisition of Nano-Raman for Nano Education and Research	Education	Multidisciplinary	Engineering B (Industrial, Materials, Mechanical)	\$172,880.00
101ENH-18	Dr. Robert Whitaker	Louisiana Tech University	Digital Humanities Initiative, Louisiana Tech University	Education	Multidisciplinary	Humanities	\$20,197.00
102ENH-18	Dr. Marshall Bowles	Louisiana Universities Marine Consortium	Coastal biological systems assessment enhancement	Research	Single Discipline	Biological Sciences	\$140,014.00
103ENH-18	Dr. Craig Hood	Loyola University New Orleans	Multidisciplinary Enhancement of Geospatial Technologies [GIS, GPS, Remote Sensing] at Loyola University New Orleans	Education	Multidisciplinary	Social Sciences	\$134,449.00
104ENH-18	Prof. Martin McHugh	Loyola University New Orleans	Investigating Quantum Phenomena -- teaching quantum physics with a hybrid lecture/laboratory course	Education	Single Discipline	Physics	\$87,610.00
105ENH-18	Mr. Robert Racine	Loyola University New Orleans	Enhancement of Experiential Learning in Content Production for High Dynamic Range Imagery and Object Based Surround Sound Environments	Education	Single Discipline	Social Sciences	\$199,650.00
106ENH-18	Dr. Jacob Borden	McNeese State University	Enhancement of Education in Predictive Maintenance	Education	Multidisciplinary	Engineering B (Industrial, Materials, Mechanical)	\$75,439.00
107ENH-18	Dr. Kathy Jo Jackson	McNeese State University	Enhancement of Undergraduate Education through Molecular Biology Research	Research	Single Discipline	Biological Sciences	\$23,220.00
108ENH-18	Ms. Allison Puente	McNeese State University	Enhancing Spatial and Conceptual Learning of Anatomy with a Virtual Dissection Table for Health Profession Students	Education	Single Discipline	Health and Medical Sciences	\$80,635.00
109ENH-18	Dr. William Storer	McNeese State University	Equipment and Technology Enhancement of the McNeese State University Beef Cattle Education and Production Programs	Education	Single Discipline	Agricultural Sciences	\$197,847.00
110ENH-18	Dr. Christopher Struchtemeyer	McNeese State University	Providing Microbiology Laboratory Students with Hands-on Learning Experiences Using Modern Microbial Identification Methodologies	Education	Single Discipline	Biological Sciences	\$74,293.00
111ENH-18	Prof. Raj Boopathy	Nicholls State University	Upgrading Autoclave for Microbiology Education	Education	Single Discipline	Biological Sciences	\$42,042.00

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2017-18 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Single/Multidisciplinary	Primary Discipline	Amount Requested
112ENH-18	Dr. SEAN CHADWELL	Nicholls State University	Integrating Learning Communities: a Systematic Implementation of a High-Impact Practice	Education	Multidisciplinary	Humanities	\$108,818.00
113ENH-18	Dr. Angele Davis	Nicholls State University	Enhancing Student Success, Faculty Development, and Program Alignment Using an Intuitive, Embedded Assessment Platform	Education	Single Discipline	Health and Medical Sciences	\$36,975.00
114ENH-18	Mrs. Tina Granger	Nicholls State University	Wetlands Cajun Heritage Preservation Project: Enhancement of Sociology and History Learning	Research	Single Discipline	Social Sciences	\$92,682.00
115ENH-18	Mrs. Jennifer Plaisance	Nicholls State University	Multi-disciplinary Promotion of Active Learning Using Synthetic Cadavers	Education	Multidisciplinary	Health and Medical Sciences	\$150,000.00
116ENH-18	Dr. Milton Saidu	Nicholls State University	PROCESS SAFETY AND AUTOMATED CONTROL LABORATORY ENHANCEMENT PROJECT	Education	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$149,882.00
117ENH-18	Mrs. Danielle Vauclin	Nicholls State University	Enhancement of Student Performance and Patient Safety Related to Intravenous Therapy in the Bachelor of Science in Nursing Program through a Simulated Infusion Center	Education	Single Discipline	Health and Medical Sciences	\$156,825.00
118ENH-18	Dr. Himanshu Verma	Nicholls State University	Sub-Micron Polymeric Spheres: An Investigation Of Nanotribological and Magnetic Properties	Research	Single Discipline	Physics	\$128,490.00
119ENH-18	Dr. Darcey Wayment	Nicholls State University	Enhancing Biological and Chemical Analysis through the Acquisition of a Liquid Chromatograph Mass Spectrometer	Education	Multidisciplinary	Biological Sciences	\$139,000.00
120ENH-18	Dr. Enmin Zou	Nicholls State University	Enhancing Biological Sample Storage Facility at Nicholls State University	Research	Single Discipline	Biological Sciences	\$50,000.00
121ENH-18	Dr. Jennifer Hodges-Crowder	Northwestern State University	Psychological Testing and Assessment Resource Enhancements for Teaching and Learning in the Master of Science in Clinical Psychology Program	Education	Single Discipline	Social Sciences	\$23,674.00
122ENH-18	Dr. Christopher Lyles	Northwestern State University	Establishment of a chromatography suite for monitoring chemical 'fates' and determining biochemical pathways in microbiology laboratories	Education	Multidisciplinary	Biological Sciences	\$115,151.00
123ENH-18	Dr. Li Ma	Northwestern State University	Building a local phage bank and the application of the phage therapy	Research	Single Discipline	Biological Sciences	\$7,600.00
124ENH-18	Dr. Allison Rittmayer	Northwestern State University	The Digital Literacies Initiative: Reinventing Complex Curricula to Empower the Next Generation of Louisianans to Compete in a Global Culture	Education	Single Discipline	Humanities	\$161,437.00
125ENH-18	Dr. Daniel Rivera-Vazquez	Northwestern State University	Atomic Force Microscope for Multidisciplinary Teaching and Research	Education	Multidisciplinary	Physics	\$87,859.00
126ENH-18	Dr. Nabin Sapkota	Northwestern State University	3D Modeling and Design Studio	Education	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$102,054.00
127ENH-18	Mr. Stephen Waddell	Nunez Community College	Enhancing Anatomy and Physiology	Education	Single Discipline	Health and Medical Sciences	\$102,149.00
128ENH-18	Mr. Stephen Waddell	Nunez Community College	Enhancing Botany, Genetics, and Louisiana Wetlands	Education	Single Discipline	Biological Sciences	\$77,994.00
129ENH-18	Dr. Steven Heymsfield	Pennington Biomedical Research Center	Development of 3D scanning tools for Biomedical Applications	Research	Single Discipline	Health and Medical Sciences	\$46,028.00

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2017-18 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Single/Multidisciplinary	Primary Discipline	Amount Requested
130ENH-18	Ms. Megan Butler	South Louisiana Community College	zSpace 3D Project	Education	Multidisciplinary	Biological Sciences	\$99,075.00
131ENH-18	Mr. Austin Crumley	South Louisiana Community College	International School of Aviation Excellence [ISAE] Technological Advancement	Workforce	Single Discipline	Targeted Workforce	\$19,093.00
132ENH-18	Ms. Candice Bretz	Southeastern Louisiana University	Increasing Nursing Competency and Patient Safety through Health Information Technology	Education	Single Discipline	Health and Medical Sciences	\$64,941.00
133ENH-18	Dr. Jacqueline Guendouzi	Southeastern Louisiana University	Enhancing educational opportunities: Retaining interactional contact in virtual learning experiences.	Education	Multidisciplinary	Health and Medical Sciences	\$31,074.00
134ENH-18	Dr. David Hanson	Southeastern Louisiana University	Enhancement of Instructional Technology in Classroom/Lab for Technical and Professional Writing, Publishing Studies, and Digital Humanities	Education	Single Discipline	Humanities	\$41,716.00
135ENH-18	Dr. Amber Narro	Southeastern Louisiana University	Video Equipment and Software for Foreign Languages and Communication Students	Education	Single Discipline	Humanities	\$33,341.00
136ENH-18	Dr. Kyle Piller	Southeastern Louisiana University	Acquisition of Computational Resources for the Biological Sciences	Research	Single Discipline	Biological Sciences	\$105,191.00
137ENH-18	Dr. Mohammad Saadeh	Southeastern Louisiana University	Laboratory Development for Enhancing Engineering and Industrial Technology Experiential Learning	Education	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$163,790.00
138ENH-18	Dr. Radian Belu	Southern University and A&M College - Baton Rouge	A Unified Laboratory for Education and Training of Renewable Energy, Energy Management, Sustainability, and Energy Conservation [RESEE]Implemented in the Laboratory as a Service Paradigm	Research	Multidisciplinary	Engineering B (Industrial, Materials, Mechanical)	\$135,770.00
139ENH-18	Dr. Samuel Ibekwe	Southern University and A&M College - Baton Rouge	Enhancement of Materials Research and Education through the Acquisition of High-Performance Servo-Hydraulic Tensile and Fatigue Test System.	Research	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$200,000.00
140ENH-18	Dr. Jung-Im Seo	Southern University and A&M College - Baton Rouge	Enhancement of Learning Quality and Students' Hand-On Experiences for Apparel Merchandising and Textiles	Education	Single Discipline	Agricultural Sciences	\$159,367.00
141ENH-18	Dr. John Stacy	Southern University and A&M College - Baton Rouge	A Multi-use Planetarium Facility: Enhancement of Undergraduate Education in Astronomy and Physics at SUBR	Education	Single Discipline	Astronomy	\$142,700.00
142ENH-18	Dr. Rebecca Chaisson	Southern University at New Orleans	School of Social Work Targeted Student Competence Education Enhancement and faculty development through use of Current learning technological software resources	Education	Single Discipline	Social Sciences	\$50,100.00
143ENH-18	Dr. Haitham Eid	Southern University at New Orleans	SUNO Museum of African Art, Culture and History	Education	Single Discipline	Humanities	\$177,250.00
144ENH-18	Dr. Haitham Eid	Southern University at New Orleans	The Museum Professional Training Program [MPTP]	Education	Single Discipline	Humanities	\$33,500.00
145ENH-18	Dr. Patricia Robertson	Southern University at New Orleans	Involving Students in Integration of Work/Life Program to Improve Communication Skills and Student Involvement	Education	Single Discipline	Social Sciences	\$76,361.00
146ENH-18	Mrs. Joyce Cottonham	Southern University at Shreveport	Embracing Technology in the Department of Humanities	Education	Multidisciplinary	Humanities	\$108,647.00
147ENH-18	Dr. Lonnie McCray	Southern University at Shreveport	English and Math Resource Center	Education	Multidisciplinary	Humanities	\$63,412.00

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2017-18 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Single/Multidisciplinary	Primary Discipline	Amount Requested
148ENH-18	Dr. MARY BLUE	Tulane University	Examining the Narrative Storytelling Potential of Virtual Reality, Augmented Reality and Immersive Content	Education	Single Discipline	Social Sciences	\$199,113.00
149ENH-18	Dr. Lanie Dornier	Tulane University	Biometric Equipment Enhancements to Support a Career-Focused Health and Wellness Curriculum	Workforce	Single Discipline	Targeted Workforce	\$195,814.00
150ENH-18	Prof. Kevin Gotham	Tulane University	City, Culture, and Community [CCC] Department Enhancement Program [DEP]	Education	Single Discipline	Social Sciences	\$198,715.00
151ENH-18	Prof. Jason Nesbitt	Tulane University	Materials Analysis in Archaeology: Enhancement of the Center for Archaeology [Department of Anthropology, Tulane University]	Research	Single Discipline	Social Sciences	\$149,383.00
152ENH-18	Dr. Mauro Porto	Tulane University	Transnational Digital Media Initiative	Research	Single Discipline	Humanities	\$91,122.00
153ENH-18	Prof. Sunshine Van Bael	Tulane University	Research: Photosynthesis system to enhance research and education in Ecology and Evolutionary Biology	Research	Single Discipline	Biological Sciences	\$58,350.00
154ENH-18	Prof. Fred Wietfeldt	Tulane University	Waterjet Cutter: A cornerstone tool for Tulane's MakerSpace	Research	Single Discipline	Physics	\$169,250.00
155ENH-18	Dr. TIONG GIM AW	Tulane University Health Sciences Center	Strengthening Gulf Coast Resilience by Enhancing Tulane's Research in Water and Health	Research	Single Discipline	Health and Medical Sciences	\$199,594.00
156ENH-18	Dr. David Busija	Tulane University Health Sciences Center	Optogenetic Coupled Multiphoton In Vivo Imaging at Tulane University	Research	Multidisciplinary	Biological Sciences	\$200,000.00
157ENH-18	Dr. Dale Hartley	University of Holy Cross	Biology Educational Support for Tomorrow [BEST]	Education	Multidisciplinary	Biological Sciences	\$198,883.00
158ENH-18	Dr. Dilip Depan	University of Louisiana at Lafayette	Acquisition of FTIR chemical bond imaging microscope for advancement in chemical, materials, and biological science research and teaching	Research	Multidisciplinary	Engineering B (Industrial, Materials, Mechanical)	\$87,131.00
159ENH-18	Dr. Lulin Jiang	University of Louisiana at Lafayette	Acquisition of a Time-Resolved Planar Laser Induced Fluorescence [PLIF] to Foster Energy Frontier Research	Research	Multidisciplinary	Engineering B (Industrial, Materials, Mechanical)	\$200,000.00
160ENH-18	Prof. John Laudun	University of Louisiana at Lafayette	Acadiana in the Digital World: Digitizing the Archival Holdings of the University Archives and Acadiana Manuscripts Collection	Research	Multidisciplinary	Humanities	\$144,662.00
161ENH-18	Dr. Gwen Leigh	University of Louisiana at Lafayette	Enhancing Medical-Surgical Nursing Skills through Patient Simulation	Education	Single Discipline	Health and Medical Sciences	\$110,486.00
162ENH-18	Dr. Gholam Massiha	University of Louisiana at Lafayette	Integrating High Performance CNC System to Enhance Targeted Automation and Manufacturing Technology Courses	Workforce	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$82,343.00
163ENH-18	Dr. Liz Skilton	University of Louisiana at Lafayette	Preserving Our Past: The History Lab & Louisiana Disaster Response	Education	Single Discipline	Humanities	\$48,929.00
164ENH-18	Dr. Yu Wang	University of Louisiana at Lafayette	Acquisition of a Multi-Detector GPC/SEC System for Materials Research and Innovation at UL Lafayette	Research	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$106,012.00
165ENH-18	Prof. Harry Whitlow	University of Louisiana at Lafayette	Organic Molecule Imaging at the Louisiana Accelerator Center [OMILAC]	Research	Multidisciplinary	Physics	\$197,675.00

**Proposals Submitted to the Departmental Enhancement Program - Targeted  
for the FY 2017-18 Review Cycle**

Proposal Number	PI Name	Institution	Project Title	Primary Category	Single/Multidisciplinary	Primary Discipline	Amount Requested
166ENH-18	Prof. Wu Xu	University of Louisiana at Lafayette	Acquisition of a mass spectrometer to enhance research through a platform of interdisciplinary, multilevel and collaborative efforts	Research	Multidisciplinary	Agricultural Sciences	\$199,700.00
167ENH-18	Prof. Wu Xu	University of Louisiana at Lafayette	Strengthen biomolecule separation and characterization capacity to enhance undergraduate teaching and research	Education	Single Discipline	Agricultural Sciences	\$31,370.00
168ENH-18	Dr. Nektarios Barabutis	University of Louisiana at Monroe	Establishment of a Research Laboratory focused on Vascular Barrier Function	Research	Single Discipline	Health and Medical Sciences	\$48,452.00
169ENH-18	Ms. Donna Glaze	University of Louisiana at Monroe	ULM Nursing Simulation Center Enhancement	Education	Single Discipline	Health and Medical Sciences	\$92,462.00
170ENH-18	Prof. Sharon Meyer	University of Louisiana at Monroe	Ultra-high performance liquid chromatography capability to enhance research and training among ULM toxicology, chemistry and pharmacology	Research	Multidisciplinary	Biological Sciences	\$71,525.00
171ENH-18	Dr. Anita Sharma	University of Louisiana at Monroe	Enhancement of the Institute of Gerontology at ULM	Workforce	Single Discipline	Targeted Workforce	\$195,500.00
172ENH-18	Dr. Paul Herrington	University of New Orleans	Additive Manufacturing Laboratory Enhancement	Education	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$139,489.00
173ENH-18	Prof. Leszek Malkinski	University of New Orleans	Acquisition of NanoMOKE to Enhance Physics Research and Education at UNO	Research	Single Discipline	Physics	\$149,920.00
174ENH-18	Dr. Vassil Roussev	University of New Orleans	UNO CyberRange: An Advanced Platform for Cybersecurity Workforce Training	Workforce	Single Discipline	Targeted Workforce	\$195,400.00
175ENH-18	Dr. Paul Schilling	University of New Orleans	Enhancement of the Metallurgical Laboratory	Education	Single Discipline	Engineering B (Industrial, Materials, Mechanical)	\$74,000.00
176ENH-18	Dr. John Wiley	University of New Orleans	Cost Effective Helium Recovery System for Low Temperature Magnetic, Electronic and Thermal Measurements	Research	Multidisciplinary	Engineering B (Industrial, Materials, Mechanical)	\$125,212.00
177ENH-18	Dr. Ross Louis	Xavier University	Performance Studies Mobile Laboratory: An Interdisciplinary Teaching and Research Lab	Education	Single Discipline	Humanities	\$196,854.00
178ENH-18	Dr. Kim Vaz-Deville	Xavier University	Enhancing Undergraduates' Digital Humanities Knowledge and Skills at Xavier University of Louisiana	Education	Multidisciplinary	Humanities	\$197,953.00

Total Number of Proposals Submitted	139
Total Funds Requested	\$16,319,179.00

## **Appendix B**

### **Rating Form**



## 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?

Comments:

-Strengths

-Weaknesses

### 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?

Comments:

-Strengths

-Weaknesses

### Impact      30 points      \_\_\_\_\_

-To what degree does the project elevate the unit's ability to perform significant research, compete for research funding, improve facilities or curriculum in a way that impacts recruitment, retention, and the workforce competitiveness of graduates? To what degree is this impact related to the mission statement of the academic unit?

Comments:

-Strengths

-Weaknesses

### Evaluation      10 Points      \_\_\_\_\_

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

Comments:

-Strengths

-Weaknesses

**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?

Comments:

- Strengths
- Weaknesses

**Investigators**                      **10 Points**                      \_\_\_\_\_

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

Comments:

- Strengths
- Weaknesses

**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?

Comments:

- Strengths
- Weaknesses