

FY 2005-06 LOUISIANA BOARD OF REGENTS SUPPORT FUND

ENHANCEMENT COMPONENT

ENGINEERING B

An Engineering B review panel consisting of Dr. Philip Gold, California State University (chair); Dr. David Beasley, North Carolina State University; and Dr. Charles Fledderman, University of New Mexico met on March 1-3, 2006, in Baton Rouge, Louisiana, for the purpose of evaluating fifty-two (52) Engineering B proposals requesting funds through the Enhancement Component of the Board of Regents Support Fund.

Funding was recommended for 21 of the proposals submitted. Of that number, 18 were recommended for full funding, and the remaining 3 for partial funding. The reduction recommended for each of these proposals was based on a thorough review of the budget, resulting in a funding amount corresponding to the most pressing needs and merits of the proposal.

Each committee member reviewed all 52 proposals prior to arrival in Baton Rouge, and each prepared a detailed review and presentation at the meeting. All proposals were discussed in detail, which resulted in comments, suggestions, and debate about the various aspects of each proposal, given the three reviewers' backgrounds and areas of expertise. In each case, unanimous agreement was reached with respect to the ranking and recommended funding. The panel believes that each proposal received a thorough and fair evaluation based upon the criteria enumerated in Appendix B.

Table I contains a list of proposals highly recommended for funding in rank order, with recommended funding levels. Proposals not recommended for funding are listed in Table II. A detailed review of each proposal follows immediately after the tables. A summary of all proposals submitted (Appendix A) and a copy of both rating forms used in the evaluations (Appendix B) are attached at the end of the report.

The panel wishes to explain the high cut-off score of 80 between Tables I and II. The decision as to what score would divide proposals recommended for funding from those that were not recommended for funding was made deliberately. In our estimation, there was just not enough money to fund any proposals with a score lower than 80, and no additional funds are likely to become available due to budget constraints. Several proposals were not recommended because the panel deemed them ineligible under Engineering B.

TABLE I
PROPOSALS HIGHLY RECOMMENDED FOR FUNDING

RANK	RATING	PROPOSAL NO.	INSTITUTION	FIRST YEAR FUNDS REQUESTED	FIRST YEAR FUNDS RECOMMENDED	SECOND YEAR FUNDS REQUESTED	SECOND YEAR FUNDS RECOMMENDED
1	95	019ENGB-06	LSU-SHREVEPORT	\$37,659	\$37,659		
2	94	021ENGB-06	LA TECH	\$66,769	\$66,769		
3	93	012ENGB-06	LSU-BR	\$123,395	\$123,395		
3	93	022ENGB-06	LA TECH	\$52,280	\$52,280		
5	92	038ENGB-06	ULL	\$53,310	\$53,310		
5	92	046ENGB-06	UNO	\$158,378	\$158,378		
7	91	005ENGB-06	LSU-BR	\$197,000	\$197,000		
7	91	010ENGB-06	LSU-BR	\$292,423	\$292,423		
9	90	014ENGB-06	LSU-BR	\$177,000	\$177,000		
9	90	035ENGB-06	ULL	\$86,304	\$86,304		
11	89	027ENGB-06	LA TECH	\$44,971	\$44,971		
12	88	011ENGB-06	LSU-BR	\$142,670	\$142,670		
13	87	002ENGB-06	LSU AG	\$267,138	\$99,688	\$0	\$0
14	86	023ENGB-06	LA TECH	\$48,000	\$48,000		
15	85	003ENGB-06	LSU AG	\$65,300	\$50,000		
16	84	018ENGB-06	LSU-BR	\$150,000	\$150,000		
17	83	029ENGB-06	MCNEESE	\$43,950	\$43,950		
17	83	034ENGB-06	ULL	\$86,045	\$86,045		
19	82	025ENGB-06	LA TECH	\$151,000	\$151,000		
20	81	042ENGB-06	ULL	\$159,325	\$159,325		
21	80	013ENGB-06	LSU-BR	\$260,000	\$100,000		
TOTALS:				\$2,662,917	\$2,320,167	\$0	\$0

TABLE II
PROPOSALS NOT RECOMMENDED FOR FUNDING

RANK	RATING	PROPOSAL NO.	INSTITUTION	FIRST YEAR FUNDS REQUESTED	FIRST YEAR FUNDS RECOMMENDED	SECOND YEAR FUNDS REQUESTED	SECOND YEAR FUNDS RECOMMENDED
22	78	036ENGB-06	ULL	\$132,758	\$0		
23	77	006ENGB-06	LSU-BR	\$196,000	\$0		
23	77	009ENGB-06	LSU-BR	\$35,000	\$0		
25	76	008ENGB-06	LSU-BR	\$52,297	\$0		
25	76	033ENGB-06	TULANE	\$98,910	\$0		
27	75	007ENGB-06	LSU-BR	\$162,294	\$0		
27	75	016ENGB-06	LSU-BR	\$457,503	\$0		
29	74	045ENGB-06	ULL	\$175,000	\$0		
29	74	049ENGB-06	UNO	\$131,700	\$0		
31	73	040ENGB-06	ULL	\$51,400	\$0		
31	73	048ENGB-06	UNO	\$116,250	\$0		
33	72	031ENGB-06	SUBR	\$105,778	\$0		
34	71	050ENGB-06	UNO	\$132,041	\$0		
35	70	044ENGB-06	ULL	\$153,285	\$0		
36	68	001ENGB-06	LSU AG	\$152,000	\$0		
36	68	026ENGB-06	LA TECH	\$82,284	\$0		
36	68	030ENGB-06	NICHOLLS	\$145,000	\$0		
36	68	041ENGB-06	ULL	\$167,660	\$0		
40	67	004ENGB-06	LSU AG	\$162,000	\$0		
40	67	032ENGB-06	SUBR	\$18,000	\$0		
40	67	037ENGB-06	ULL	\$63,046	\$0		
40	67	051ENGB-06	UNO	\$105,584	\$0		
40	67	052ENGB-06	UNO	\$116,900	\$0		
45	66	015ENGB-06	LSU-BR	\$245,975	\$0		
45	66	017ENGB-06	LSU-BR	\$233,400	\$0		
45	66	020ENGB-06	LA TECH	\$92,030	\$0		
45	66	028ENGB-06	LA TECH	\$89,395	\$0		
45	66	039ENGB-06	ULL	\$116,875	\$0		
50	65	024ENGB-06	LA TECH	\$44,283	\$0		
50	65	043ENGB-06	ULL	\$57,030	\$0		
50	65	047ENGB-06	UNO	\$200,000	\$0		
TOTALS:				\$4,091,678	\$0	\$0	\$0

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 001ENGB-06

INSTITUTION: Louisiana State University and A&M College - Agricultural Center

TITLE OF PROPOSAL: Versatile Rheo-Station

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 3 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 5 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 10 (of 15 points)
 B.3 12 (of 20 points)
 B.4 4 (of 5 points)
 B.5 1 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 68 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$152,000
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal involves the School of Human Ecology's request to enhance rheology measuring capabilities in the Textile Apparel and Merchandising area. The project would strengthen the lab's ability to quantify properties of polymeric or other agri-based materials that might produce new/improved products for Louisiana industry. The panel feels that, although the goals for the effort are laudible, this proposal does not properly fit in the Engineering B category. It should be submitted when either Agriculture or Chemistry is an eligible discipline.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 002ENGB-06

INSTITUTION: Louisiana State University and A&M College - Agricultural Center

TITLE OF PROPOSAL: Acquisition of Equipment to Enhance the Biotechnology
Research Capability of Biological and Agricultural Engineering

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
 C.2 1 (of 1 point)
 C.3 3 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 8 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 13 (of 15 points)
 B.3 18 (of 20 points)
 B.4 4 (of 5 points)
 B.5 2 (of 2 points)
 B.6 5 (of 5 points)
 B.7 Yes _____ No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 11 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 87 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY RECOMMENDATIONS:	Requested Amount:	YEAR 1	YEAR 2
	Amount:	\$267,138	\$0
	Recommended Amount:	\$99,688	\$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel believes the proposal would, indeed, strengthen the biotech lab capabilities in the Biological and Agricultural Engineering Department at LSU Ag Center. However, several items of equipment were deemed not justified based on the central theme of the proposal. It was not clear why a 3-D printer is needed for biotech research. Further, the justification for a \$100K thermometer was inadequate. Thus, the panel believes that only the UPLC and the laboratory scale rice milling equipment should be funded at the level of \$99,688. The institutional match should be maintained at the originally proposed level.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 003ENGB-06

INSTITUTION: Louisiana State University and A&M College - Agricultural Center

TITLE OF PROPOSAL: Updating Laboratory Instruments in the Biological Engineering Department

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
 C.2 1 (of 1 point)
 C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 8 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 13 (of 15 points)
 B.3 17 (of 20 points)
 B.4 4 (of 5 points)
 B.5 2 (of 2 points)
 B.6 5 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 85 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$65,300
 RECOMMENDATIONS: Recommended Amount: \$50,000

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The proposal requests funds for a substantial upgrade of capabilities in the LSU bioreactor laboratory of the Biological Engineering Department. The panel felt the types and configurations of the equipment were both reasonable and justified. However, the panel also felt that six stations were probably appropriate for the lab upgrade. Thus, it is recommended that funding be reduced to \$50,000, and the institutional match remain at the originally proposed level.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 004ENGB-06

INSTITUTION: Louisiana State University and A&M College - Agricultural Center

TITLE OF PROPOSAL: Advanced Profile Extrusion Facility for Bio-Fiber and Polymer Composite Research and Development

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 3 (of 5 points)
A.3 3 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
E.2a 6 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 3 (of 5 points)
B.2 12 (of 15 points)
B.3 14 (of 20 points)
B.4 4 (of 5 points)
B.5 1 (of 2 points)
B.6 3 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 1 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

67

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$162,000
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

While the topic of this research is interesting and potentially a valuable contribution, the panel did not believe that the research proposed here fits in the Engineering B category. The proposal should be submitted when either the Agriculture or the Wood/Paper Science (Chemical Engineering) discipline is eligible. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 005ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: A High Speed Infra-Red Thermal Imaging and Flow Visualization System

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 5 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 9 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

91

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
B.2 15 (of 15 points)
B.3 20 (of 20 points)
B.4 4 (of 5 points)
B.5 2 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 11 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 1 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$197,000
RECOMMENDATIONS: Recommended Amount: \$197,000

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal will improve a number of programmatic areas and is well-written. The applicants are very well qualified and have the potential to significantly enhance the productivity and competitiveness of the TIER group. Full funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 006ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Acquisition of a Plasma Source for Low Temperature
Deposition of Carbon Nanotubes

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 8 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 12 (of 15 points)
 B.3 15 (of 20 points)
 B.4 4 (of 5 points)
 B.5 1 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 1 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 77 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$196,000
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel feels that this proposal has the potential to produce a more capable and competitive situation for LSU's ECE department and CAMD. However, the panel also believes that the most appropriate disciplinary area for the proposal is Engineering A. This proposal should be submitted when those disciplines are eligible.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 007ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Fabrication and Surface Characterization of Carbonized and Activated Bio-Composites

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 9 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

75

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 11 (of 15 points)
B.3 14 (of 20 points)
B.4 4 (of 5 points)
B.5 1 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 0 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$162,294
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is an interesting proposal from LSU's Human Ecology department. The work proposed focuses on the area of carbonized/activated nonwovens using natural fibers. Faculty members appear to be quite capable in the area and the potential for success is high. However, the panel believes the most appropriate disciplinary area for this proposal is agriculture. The proposal should be submitted in that discipline when it is next eligible.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 008ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Enhancement of MEMS System Engineering Capabilities
at CAMD Clean Room

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 7 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 12 (of 15 points)
 B.3 16 (of 20 points)
 B.4 4 (of 5 points)
 B.5 2 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 0 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes _____ No X

H. Total Score: 76 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$52,297
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel believes that this proposal fits in both the electronics (Engineering A) discipline and the materials (Engineering B) area. Funds from this proposal would definitely improve fabrication capabilities and competitiveness at CAMD. The proposers are qualified, but the likelihood of a significant impact on education is minimal, and no matching funds were committed. The panel does not recommend funding.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 009ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: A Digital Microscopy System for Applications in Microdevice
Evaluation, Materials Development and Testing and BioMEMS

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 8 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 12 (of 15 points)
 B.3 15 (of 20 points)
 B.4 4 (of 5 points)
 B.5 1 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 1 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 77 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$35,000
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel feels that this proposal might very well enhance research competitiveness and educational offerings in the Mechanical Engineering Department at LSU. The panel also is concerned that the proposing team has not been entirely forthcoming in disclosing previous BoRSF support, particularly since one of the applicants received funding for a scanning electron microscope three years ago. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 010ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Enhancement of Process and Metrology Equipment in the CAMD Cleanroom

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 5 (of 5 points)
A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 9 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
B.2 13 (of 15 points)
B.3 18 (of 20 points)
B.4 5 (of 5 points)
B.5 2 (of 2 points)
B.6 5 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 11 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

91

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$292,423
RECOMMENDATIONS: Recommended Amount: \$292,423

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal has a high probability for success that could very well take CAMD to a much higher level. There is a good internal match but no external match, which should be expected for a proposal such as this one. However, the team is strong and the budget is appropriate. Full funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 011ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: A Plasma Spray System for Fabrication of Solid Oxide Fuel Cells

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 5 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 9 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 13 (of 15 points)
B.3 18 (of 20 points)
B.4 5 (of 5 points)
B.5 2 (of 2 points)
B.6 5 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

88

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$142,670
RECOMMENDATIONS: Recommended Amount: \$142,670

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel believes the proposal to be strong and that success on this project could lead to a significant payoff. There is a good internal match, but no external match. The panel recommends that the proposal be fully funded nevertheless.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 012ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Acquisition of a High-load, Instrumented, Nanoindentation/
Nanoscratch System

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 5 (of 5 points)
 A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
 C.2 1 (of 1 point)
 C.3 3 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 10 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
 B.2 14 (of 15 points)
 B.3 18 (of 20 points)
 B.4 5 (of 5 points)
 B.5 2 (of 2 points)
 B.6 5 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 11 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 1 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 93 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY **Requested Amount:** \$123,395
RECOMMENDATIONS: **Recommended Amount:** \$123,395

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is a very good proposal by a strong team that has a good potential for success. A small internal match is pledged. The proposal is recommended for full funding.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 013ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Multiscale Molding Research Infrastructure

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 8 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

80

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 13 (of 15 points)
B.3 16 (of 20 points)
B.4 5 (of 5 points)
B.5 2 (of 2 points)
B.6 5 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 0 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$260,000
RECOMMENDATIONS: Recommended Amount: \$100,000

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The proposal addresses a needed area of enhancement in a number of departments at LSU. However, the panel does not believe that the case for the \$160,000 RIE was convincingly made. There was no match evident in the budget. The panel recommends that the proposal be funded at the level of \$100,000 for all equipment other than the RIE.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 014ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: A Real-Time, Stereoscopic Imaging System for Multi-Scale Applications

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 5 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
 C.2 1 (of 1 point)
 C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 9 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
 B.2 14 (of 15 points)
 B.3 18 (of 20 points)
 B.4 5 (of 5 points)
 B.5 2 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 11 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 90 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY **Requested Amount:** \$177,000
RECOMMENDATIONS: **Recommended Amount:** \$177,000

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel believes that the proposed equipment would positively impact a number of areas and should aid both research and education. There is some concern, as there was in 2003, that a full-color camera is more than what might be needed, given that the light source is monochromatic. Only an internal match was pledged; however, the panel recommends full funding.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 015ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Upgrading LSU Structural Materials and Systems Lab to
Meet 21st Century Challenges

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 3 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 6 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

H. Total Score: 66 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 3 (of 5 points)
 B.2 9 (of 15 points)
 B.3 11 (of 20 points)
 B.4 4 (of 5 points)
 B.5 2 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$245,975
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

Although the proposed project is laudable and addresses real infrastructure needs, the panel concurs that this proposal is not appropriately targeted to Engineering B. The applicants should resubmit when the Engineering A disciplines are eligible for funding. There was a reasonable internal match but no external match. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 016ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Enhancement of Rock-Fluids Interactions Laboratory

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 7 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

75

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 10 (of 15 points)
B.3 14 (of 20 points)
B.4 4 (of 5 points)
B.5 2 (of 2 points)
B.6 5 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$457,503
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The proposed equipment might conceivably advance this program to a higher level, particularly in the area of rock-fluids interactions. However, the panel notes that the equipment is available in nearby states (Texas and Oklahoma). The proposed effort is quite expensive and should be strongly supported externally. There was a good internal match but no external match. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 017ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Acquisition of a Scanning Probe Microscopy System for Multidisciplinary Nanoscale Materials Research and Education

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 3 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 6 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 9 (of 15 points)
B.3 12 (of 20 points)
B.4 4 (of 5 points)
B.5 2 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 0 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

66

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$233,400
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal primarily addresses enhancement in the Physics and Chemistry areas (Natural Sciences), not Engineering B. Thus, the applicants should resubmit this proposal when those disciplines are eligible. It is also noted that one of the applicants received funding for a scanning electron microscope in 2003, yet failed to indicate that funding in the BoRSF Current and Pending Support form. There was no match associated with this proposal. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 018ENGB-06

INSTITUTION: Louisiana State University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Acquisition of a Magnetron Sputtering System for Thin Films Fabrication

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
E.2a 8 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 14 (of 15 points)
B.3 17 (of 20 points)
B.4 4 (of 5 points)
B.5 1 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 11 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 4 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

84

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$150,000
RECOMMENDATIONS: Recommended Amount: \$150,000

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal includes a significant student involvement component in addition to representing a significant contribution to the emerging research program of the principal investigator. The panel recommends funding this proposal fully.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 019ENGB-06

INSTITUTION: Louisiana State University and A&M College - Shreveport

TITLE OF PROPOSAL: Enhancement of Undergraduate Learning at LSUS

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 5 (of 5 points)
 A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
 C.2 1 (of 1 point)
 C.3 3 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 9 (For S/E)
 or (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 15 (of 15 points)
 B.3 19 (of 20 points)
 B.4 5 (of 5 points)
 B.5 2 (of 2 points)
 B.6 5 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 12 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 95 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY **Requested Amount:** \$37,659
RECOMMENDATIONS: **Recommended Amount:** \$37,659

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is a well-structured proposal with clearly attainable goals, a very strong institutional match, and extensive student involvement. The project should have a positive effect on all aspects of the program. The panel recommends full funding of this modest request.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 020ENGB-06

INSTITUTION: Louisiana Tech University

TITLE OF PROPOSAL: Advanced Cementitious Materials Laboratory Enhancement

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 3 (of 5 points)
A.3 3 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 3 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
E.2a 7 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 3 (of 5 points)
B.2 11 (of 15 points)
B.3 12 (of 20 points)
B.4 3 (of 5 points)
B.5 1 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

66

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$92,030
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal represents a significant enhancement to the Civil Engineering Department's Advanced Cementitious Materials Laboratory. The panel concludes that, although this is a laudable goal and worthy of support, the proposal should be submitted in the Engineering A disciplines when they are eligible.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 021ENGB-06

INSTITUTION: Louisiana Tech University

TITLE OF PROPOSAL: Undergraduate Biomedical Instrumentation Laboratory

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 5 (of 5 points)
A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 9 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 15 (of 15 points)
B.3 18 (of 20 points)
B.4 5 (of 5 points)
B.5 2 (of 2 points)
B.6 5 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 12 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

94

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$66,769
RECOMMENDATIONS: Recommended Amount: \$66,769

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel believes this to be an excellent proposal. While impacting primarily undergraduate education, it should also serve to enhance several other aspects of the program. The institutional match is strong; the panel recommends full funding of this request.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 022ENGB-06

INSTITUTION: Louisiana Tech University

TITLE OF PROPOSAL: Enhancement of Flexible Manufacturing Laboratory

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 5 (of 5 points)
 A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 8 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
 B.2 15 (of 15 points)
 B.3 19 (of 20 points)
 B.4 5 (of 5 points)
 B.5 2 (of 2 points)
 B.6 5 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 11 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 93 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$52,280
 RECOMMENDATIONS: Recommended Amount: \$52,280

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is a solid proposal representing a significant enhancement of the current situation. The project will be well situated to leverage industrial support and it should also improve the teaching experiences of faculty. The panel recommends full funding.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 023ENGB-06

INSTITUTION: Louisiana Tech University

TITLE OF PROPOSAL: Visualization Laboratory for Micro/Nanotechnology Education

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 5 (of 5 points)
A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
E.2a 8 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

86

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
B.2 13 (of 15 points)
B.3 18 (of 20 points)
B.4 5 (of 5 points)
B.5 2 (of 2 points)
B.6 5 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$48,000
RECOMMENDATIONS: Recommended Amount: \$48,000

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is a good proposal with a significant institutional match that will enhance the education of both undergraduate and graduate students. The panel recommends funding this proposal fully.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 024ENGB-06

INSTITUTION: Louisiana Tech University

TITLE OF PROPOSAL: Structural Health Monitoring System

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 3 (of 5 points)
 A.3 3 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 1 (of 2 points)
 E.2a 6 (For S/E)
 or (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 3 (of 5 points)
 B.2 11 (of 15 points)
 B.3 13 (of 20 points)
 B.4 3 (of 5 points)
 B.5 1 (of 2 points)
 B.6 3 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 65 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$44,283
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel concludes that this proposal to develop a Structural Health Monitoring System is not appropriate for the Engineering B disciplines and should be submitted for Engineering A consideration. The panel advises the applicants to more carefully review the guidelines of the RFP before preparing and submitting future proposals. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 025ENGB-06

INSTITUTION: Louisiana Tech University

TITLE OF PROPOSAL: Characterization Laboratory for Biomaterials and Tissue Engineering

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 5 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
 C.2 1 (of 1 point)
 C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
 E.2a 9 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 12 (of 15 points)
 B.3 17 (of 20 points)
 B.4 4 (of 5 points)
 B.5 1 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 82 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$151,000
 RECOMMENDATIONS: Recommended Amount: \$151,000

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is an ambitious proposal that is well supported with matching funds. The panel believes that the project represents an important emerging technology that should be supported fully, and that is the recommendation.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 026ENGB-06

INSTITUTION: Louisiana Tech University

TITLE OF PROPOSAL: Enhancing Micro/Nanotechnology Education With Device
Characterization Training Laboratory

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 1 (of 2 points)
 E.2a 7 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 10 (of 15 points)
 B.3 12 (of 20 points)
 B.4 4 (of 5 points)
 B.5 1 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 1 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 68 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$82,284
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The proposal to enhance the Device Characterization Training Laboratory is a positive one. However, this is an Electrical Engineering proposal and should be submitted under Engineering A. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 027ENGB-06

INSTITUTION: Louisiana Tech University

TITLE OF PROPOSAL: Enhancement of Lean Manufacturing Laboratory

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 5 (of 5 points)
A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 9 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

89

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
B.2 14 (of 15 points)
B.3 18 (of 20 points)
B.4 4 (of 5 points)
B.5 2 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$44,971
RECOMMENDATIONS: Recommended Amount: \$44,971

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is a good proposal with significant potential. There is strong student involvement and good matching support. The panel recommends full funding.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 028ENGB-06

INSTITUTION: Louisiana Tech University

TITLE OF PROPOSAL: Enhancement of Education and Research Infrastructure for
Nanosystems Engineering and Molecular Science and
Nanotechnology Curricula

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
E.2a 7 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 3 (of 5 points)
B.2 10 (of 15 points)
B.3 11 (of 20 points)
B.4 4 (of 5 points)
B.5 1 (of 2 points)
B.6 3 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

66

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$89,395
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The panel concludes that this proposal more correctly aligns with Chemistry, Physics (Natural Sciences), or Engineering A disciplines. Thus, no funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 029ENGB-06

INSTITUTION: McNeese State University

TITLE OF PROPOSAL: Expanding the Capabilities of the Engineering Department
Through the Addition of 3D Solids Modeling

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 5 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 9 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 14 (of 15 points)
 B.3 17 (of 20 points)
 B.4 4 (of 5 points)
 B.5 1 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 1 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 83 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$43,950
RECOMMENDATIONS: Recommended Amount: \$43,950

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is a modest project representing a significant addition to the design program. There is evidence of strong student involvement, and the project is supported by some external matching funds. The panel recommends funding this proposal fully.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 030ENGB-06

INSTITUTION: Nicholls State University

TITLE OF PROPOSAL: Geospatial Technology Laboratory for the New Geomatics Program at Nicholls State University

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 3 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
E.2a 7 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 3 (of 5 points)
B.2 10 (of 15 points)
B.3 13 (of 20 points)
B.4 4 (of 5 points)
B.5 1 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

68

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$145,000
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is a well-planned technology project for the development of an advanced surveying system. Although the proposal includes impressive institutional and external matches, the panel believes that the proposal is not appropriate for the Engineering B disciplines. It should be resubmitted when the Engineering A disciplines are eligible. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 031ENGB-06

INSTITUTION: Southern University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Experimental Internal Combustion Engine Laboratory for
Engineering

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 3 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 2 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 7 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 13 (of 15 points)
 B.3 15 (of 20 points)
 B.4 4 (of 5 points)
 B.5 2 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 0 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 72 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$105,778
 RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The development of an internal combustion engine laboratory is a good idea, but the panel believes that the proposed equipment is too limited in scope and restricted mainly to demonstration laboratory use. The panel also concludes that the applicants should consider obtaining a research-grade dynamometer capable of use with a variety of commercial internal combustion engines. The applicants should be able to generate donations of engines for that purpose from other sources. Unfortunately, the limited funds available are not sufficient to permit funding this proposal this year.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 032ENGB-06

INSTITUTION: Southern University and A&M College - Baton Rouge

TITLE OF PROPOSAL: Enhancement of the Microstructure X-ray Gas Detector Laboratory

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 3 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 7 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 3 (of 5 points)
B.2 10 (of 15 points)
B.3 13 (of 20 points)
B.4 3 (of 5 points)
B.5 1 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 1 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

67

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$18,000
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is an electrical engineering proposal (Engineering A), and is not appropriate for the Engineering B program. Therefore no funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 033ENGB-06

INSTITUTION: Tulane University

TITLE OF PROPOSAL: Acquisition of a Nanoindenter for Research and Education
in Nano/Micro/Bio Materials

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 1 (of 2 points)
 E.2a 9 (For S/E)
 or (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 12 (of 15 points)
 B.3 13 (of 20 points)
 B.4 4 (of 5 points)
 B.5 1 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 76 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$98,910
 RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal represents a contribution to studies in Tulane's Nano/Micro/Bio materials. There is a reasonable level of matching funds, and the effort to involve students in this emerging field is laudable. Unfortunately, there are not sufficient funds to recommend funding this proposal this year, given the number of other worthy proposals.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 034ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: An Interdisciplinary Instrumentation and Measurement Laboratory for Undergraduate Instruction and Research

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
C.2 1 (of 1 point)
C.3 2 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
E.2a 8 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 15 (of 15 points)
B.3 17 (of 20 points)
B.4 4 (of 5 points)
B.5 1 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

83

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$86,045
RECOMMENDATIONS: Recommended Amount: \$86,045

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This project appears to represent a good interaction between Industrial Engineering Technology and Mechanical Engineering. The project serves primarily undergraduate students, and the cost-sharing is extensive. Full funding of the proposal is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 035ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: The Development of an Interactive Virtual Reality Module
for Teaching Production Concepts

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 5 (of 5 points)
 A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 5 (of 6 points)
 C.2 1 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 8 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
 B.2 14 (of 15 points)
 B.3 19 (of 20 points)
 B.4 5 (of 5 points)
 B.5 2 (of 2 points)
 B.6 4 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 4 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 90 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$86,304
 RECOMMENDATIONS: Recommended Amount: \$86,304

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is an innovative idea with significant external support. There is very good institutional and excellent external matching support. This proposal should provide excellent opportunities to evaluate the utility of virtual reality in engineering education. Full funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 036ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: Promoting State-of-the-Art Learning Among Undergraduate
Engineering Students by Incorporating Integrated Product and
Process Development

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 5 (of 5 points)
A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 5 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
B.2 15 (of 15 points)
B.3 10 (of 20 points)
B.4 5 (of 5 points)
B.5 2 (of 2 points)
B.6 3 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 8 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 78 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$132,758
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is a well-written proposal to fund a significant upgrade to the curriculum. The institutional and external matches are significant. Although the panel considers this to be a good proposal, there are not sufficient resources to fund this proposal this year.

RATING FORM FOR ENHANCEMENT REQUESTS OTHER THAN EQUIPMENT PURCHASES

PROPOSAL NUMBER: 037ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: Development and Implementation of a Petroleum Recovery
Technology Concentration in Offshore Petroleum Exploration
and Production in a Petroleum Engineering Curriculum

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Faculty and Staff Expertise

(Total of 12 Points)

D.1 6 (of 12 points)

**D. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 8 (For S/E)
or _____ (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 62 Points)

B.1 3 (of 5 points)
B.2 10 (of 20 points)
B.3 15 (of 25 points)
B.4 5 (of 5 points)
B.5 2 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

E. Additional Funding Sources

(Total of 4 Points)

F.1 4 (of 4 points)

F. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

G. Total Score: 67 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$63,046
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The position of this program that focuses on offshore platforms is good. However, no obvious expertise by the team in software development is exhibited. Also, only one course appears to be affected by the proposed activity. Even though there are good internal and external matches, the proposal's score and the limited funds available did not permit the panel to recommend funding this proposal.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 038ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: Computer-Aided Experimentation Systems for Mechanical
Systems and Fluid Power Undergraduate Laboratories

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 5 (of 5 points)
A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 6 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
B.2 15 (of 15 points)
B.3 17 (of 20 points)
B.4 5 (of 5 points)
B.5 2 (of 2 points)
B.6 5 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 12 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

92

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$53,310
RECOMMENDATIONS: Recommended Amount: \$53,310

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The proposed laboratory upgrade should positively impact a significant number of courses. The internal match is substantial. Full funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 039ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: Nanotechnology Equipment to Enhance Microelectronic Research Laboratory

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 3 (of 5 points)
A.3 3 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 0 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 0 (of 2 points)
E.2a 5 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 3 (of 5 points)
B.2 12 (of 15 points)
B.3 14 (of 20 points)
B.4 2 (of 5 points)
B.5 1 (of 2 points)
B.6 3 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 7 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 4 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

66

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$116,875
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal described a clear connection between deposition of nanotubes and the development of optical systems. However, the PIs do not appear to have obvious expertise in nanotube fabrication. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 040ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: PC Net for Digital and Analog Electronics Technology Laboratory (ELnet)

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
E.2a 6 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

73

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 3 (of 5 points)
B.2 12 (of 15 points)
B.3 15 (of 20 points)
B.4 4 (of 5 points)
B.5 2 (of 2 points)
B.6 3 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 6 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$51,400
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

Some fairly basic equipment that will have an impact on a large number of courses is requested. Although this is a good proposal, the panel concludes that there are not sufficient resources to fund this proposal this year.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 041ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: Acquisition of Magnetometer System for Teaching and Research of Functional Materials

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 3 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 0 (of 2 points)
E.2a 8 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 10 (of 15 points)
B.3 10 (of 20 points)
B.4 4 (of 5 points)
B.5 1 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 8 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

68

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$167,660
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal appearsto be a useful upgrade to the PI's equipment, but will not have a broad impact. It seems to be a better fit for Engineering A funding. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 042ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: Indentation System to Promote Teaching and Research of Mechanical Behavior of Materials

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
E.2a 10 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 13 (of 15 points)
B.3 13 (of 20 points)
B.4 4 (of 5 points)
B.5 2 (of 2 points)
B.6 4 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

81

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$159,325
RECOMMENDATIONS: Recommended Amount: \$159,325

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The project team is well qualified. The proposed project would enhance research capability in the department. The internal match is very good. Full funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 043ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: Instrumentation for Measurement of Surface Area and Pore Size Distribution of Porous and High Surface Area Materials

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 3 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 1 (of 2 points)
E.2a 5 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

65

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
B.2 11 (of 15 points)
B.3 12 (of 20 points)
B.4 3 (of 5 points)
B.5 1 (of 2 points)
B.6 3 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 5 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$57,030
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal is not appropriate for Engineering B. It would be more appropriate for funding when Engineering A is eligible. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 044ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: Establishment of Solar Air Conditioning Lab

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 4 (of 5 points)
 A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
 C.2 1 (of 1 point)
 C.3 3 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 1 (of 2 points)
 E.2a 5 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
 B.2 12 (of 15 points)
 B.3 14 (of 20 points)
 B.4 3 (of 5 points)
 B.5 1 (of 2 points)
 B.6 3 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 6 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 70 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$153,285
 RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The link to research infrastructure in this proposal is overstated. One major course would be affected with several others potentially affected. It is unclear whether a solar air conditioner in a building is an appropriate use of Board of Regents Support Funds. No funds are recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 045ENGB-06

INSTITUTION: University of Louisiana at Lafayette

TITLE OF PROPOSAL: Establishment of Biodiesel Performance Evaluation Capability

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
 A.2 5 (of 5 points)
 A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 3 (of 6 points)
 C.2 0 (of 1 point)
 C.3 2 (of 3 points)

**E. Economic and/or Cultural
Development and Impact**

(Total of 12 Points)

E.1 2 (of 2 points)
 E.2a 10 (For S/E)
 or _____ (of 10 points)
 E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
 B.2 11 (of 15 points)
 B.3 15 (of 20 points)
 B.4 2 (of 5 points)
 B.5 1 (of 2 points)
 B.6 2 (of 5 points)
 B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score: 74 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$175,000
 RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The equipment request is unclear because the applicant described the equipment as a package rather than describing the use of the individual pieces of equipment. This proposal is probably more related to Engineering A and should be submitted in that discipline in the next funding cycle. Although this is a reasonably good proposal, it is not recommended for funding.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 046ENGB-06

INSTITUTION: University of New Orleans

TITLE OF PROPOSAL: Rapid Prototyping Laboratory Enhancement

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 5 (of 5 points)
A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 10 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
B.2 13 (of 15 points)
B.3 17 (of 20 points)
B.4 5 (of 5 points)
B.5 2 (of 2 points)
B.6 5 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

92

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$158,378
RECOMMENDATIONS: Recommended Amount: \$158,378

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This is a good proposal that should have a significant impact on the academic programs of the department. The panel recommends full funding.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 047ENGB-06

INSTITUTION: University of New Orleans

TITLE OF PROPOSAL: Proposal for Development of University Materials Science Teaching Laboratory (MSTL)

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 2 (of 6 points)
C.2 1 (of 1 point)
C.3 1 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 0 (of 2 points)
E.2a 10 (For S/E)
or _____ (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

65

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 10 (of 15 points)
B.3 10 (of 20 points)
B.4 4 (of 5 points)
B.5 2 (of 2 points)
B.6 2 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 9 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 2 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes _____ No X

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$200,000
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal is incomplete and the budget is vague. There was not enough detail to warrant funding.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 048ENGB-06

INSTITUTION: University of New Orleans

TITLE OF PROPOSAL: Technology Enhancement for Fabrication of Patterned
Nanostructures by Means of Ion Milling Technique

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 0 (of 2 points)
E.2a 5 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 11 (of 15 points)
B.3 15 (of 20 points)
B.4 1 (of 5 points)
B.5 2 (of 2 points)
B.6 2 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 12 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

73

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$116,250
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The proposed activity would have educational impact limited to only a few graduate students. Only a relatively small institutional match is pledged. Although this is a reasonably good proposal, there are not sufficient resources to fund this proposal this year.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 049ENGB-06

INSTITUTION: University of New Orleans

TITLE OF PROPOSAL: Metallurgical Analysis of Friction Stir Welded Joints

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 2 (of 2 points)
E.2a 8 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

74

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 12 (of 15 points)
B.3 14 (of 20 points)
B.4 1 (of 5 points)
B.5 1 (of 2 points)
B.6 1 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 10 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$131,700
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

This proposal is somewhat confusing. The request seems to be for funding to set up a user facility for general materials characterization. The panel does not see the relevance of general materials characterization to friction stir welding. The institutional match is relatively small. No funding is recommended for this proposal.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 050ENGB-06

INSTITUTION: University of New Orleans

TITLE OF PROPOSAL: Acquisition of a Spectroscopic Ellipsometer for Research
and Education in Nanoscale Materials

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 0 (of 2 points)
E.2a 5 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

71

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 3 (of 5 points)
B.2 10 (of 15 points)
B.3 15 (of 20 points)
B.4 1 (of 5 points)
B.5 2 (of 2 points)
B.6 3 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 11 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$132,041
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

It is unclear how this proposed project is pertinent to nanoscale materials, rather than simply being a nice piece of equipment to have for general materials characterization. This proposal is probably not best suited to funding in Engineering B. No funding is recommended.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 051ENGB-06

INSTITUTION: University of New Orleans

TITLE OF PROPOSAL: A Thermogravimetric-Analysis/Mass-Spectroscopy System
for Materials Characterization

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 4 (of 5 points)
A.3 4 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 6 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 0 (of 2 points)
E.2a 5 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

B. The Enhancement Plan

(Total of 52 Points)

B.1 4 (of 5 points)
B.2 8 (of 15 points)
B.3 13 (of 20 points)
B.4 2 (of 5 points)
B.5 1 (of 2 points)
B.6 2 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 11 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 3 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

H. Total Score:

67

 (of 100 points)

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$105,584
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

The T-AMS system requested is applicable to some interesting research projects. However, this instrumentation is primarily a research tool and will have limited impact on teaching. The proposal would probably be better suited to disciplines other than Engineering B. The panel does not recommend funding.

RATING FORM FOR ENHANCEMENT INSTRUCTIONAL AND RESEARCH EQUIPMENT REQUESTS

PROPOSAL NUMBER: 052ENGB-06

INSTITUTION: University of New Orleans

TITLE OF PROPOSAL: Developing Nanomeasurement System In situ Field Emission Electron Microscope

A. The Current Situation

(Total of 10 Points)

A.1 Yes X No _____
A.2 5 (of 5 points)
A.3 5 (of 5 points)

C. Equipment

(Total of 10 Points)

C.1 4 (of 6 points)
C.2 1 (of 1 point)
C.3 3 (of 3 points)

E. Economic and/or Cultural Development and Impact

(Total of 12 Points)

E.1 0 (of 2 points)
E.2a 5 (For S/E)
or (of 10 points)
E.2b _____ (For NS/NE)

H. Total Score:

67

 (of 100 points)

B. The Enhancement Plan

(Total of 52 Points)

B.1 5 (of 5 points)
B.2 12 (of 15 points)
B.3 15 (of 20 points)
B.4 3 (of 5 points)
B.5 1 (of 2 points)
B.6 3 (of 5 points)
B.7 Yes X No _____

D. Faculty and Staff Expertise

(Total of 12 Points)

D.1 5 (of 12 points)

F. Additional Funding Sources

(Total of 4 Points)

F.1 0 (of 4 points)

G. Previous Support Fund Awards

(No Points Assigned)

G.1 Yes X No _____

(Note: Proposals with a total score below 70 will not be recommended for funding.)

SPECIFIC BUDGETARY Requested Amount: \$116,900
RECOMMENDATIONS: Recommended Amount: \$0

COMMENTS: (Discuss proposal strengths and weaknesses, particularly in those sections where significant point deductions have been made. Include suggestions for resubmission. For proposals recommended for funding, include all applicable stipulations in budgets and scopes of work.)

Because the proposal is incomplete and there is no cost-share information or biographical sketches for the PIs, it is not recommended for funding.

Appendix A

Summary of Proposals Submitted

**Proposals Submitted to the
Traditional Enhancement Program - Engineering B
for the FY 2005-2006 Review Cycle**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
001ENGB-06 ENG B	Versatile Rheo -Station	Louisiana State University And A&M College - Agricultural Center (Human Ecology);	Ioan I. Negulescu; Cristina Sabliov; Michael Keenan; Yan Chen;	1 . Total	\$ 152,000 <hr/> \$ 152,000
E	Proposal is a New Request				
002ENGB-06 ENG B	Acquisition of Equipment to Enhance the Biotechnology Research Capability of Biological and Agricultural Engineering	Louisiana State University And A&M College - Agricultural Center (Biological and Agricultural Engineering);	Cristina M. Sabliov; Dorin Boldor; Marybeth Lima;	1 2 . Total	\$ 267,138 \$ <hr/> \$ 267,138
E	Proposal is a New Request				

E=Primarily an Equipment Request
N=Not Primarily an Equipment Request

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
003ENGB-06 ENG B	Updating Laboratory Instruments in the Biological Engineering Department	Louisiana State University And A&M College - Agricultural Center (Biological and Agricultural Engineering);	Chandra S. Theegala; Anna Charron;	1	\$ 65,300
				Total	\$ 65,300
N Proposal is a New Request					
004ENGB-06 ENG B	Advanced Profile Extrusion Facility for Bio-Fiber and Polymer Composite Research and Development	Louisiana State University And A&M College - Agricultural Center (Renewable Natural Resources);	Qinglin Wu;	1	\$ 162,000
				Total	\$ 162,000
E Proposal is a New Request					
005ENGB-06 ENG B	A High Speed Infra-Red Thermal Imaging and Flow Visualization System	Louisiana State University And A&M College - Baton Rouge (Mechanical Engineering and TIER Center);	Sumanta Acharya; Carl Knopf; Dimitris E. Nikitopoulos; Kevin Kelly; Sheng-Min Guo;	1	\$ 197,000
				Total	\$ 197,000
E Proposal is a New Request					

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
006ENGB-06 ENG B	Acquisition of a Plasma Source for Low Temperature Deposition of Carbon Nanotubes	Louisiana State University And A&M College - Baton Rouge (Electrical and Computer Engineering);	Pratul K. Ajmera; Yoonyoung Jin;	1	\$ 196,000
				Total	\$ 196,000
E	Proposal is a New Request				
007ENGB-06 ENG B	Fabrication and Surface Characterization of Carbonized and Activated Bio-Composites	Louisiana State University And A&M College - Baton Rouge (Human Ecology);	Yan Chen; Liangfeng Sun;	1	\$ 162,294
				Total	\$ 162,294
E	Proposal is a New Request				
008ENGB-06 ENG B	Enhancement of MEMS System Engineering Capabilities at CAMD Clean Room	Louisiana State University And A&M College - Baton Rouge (Center for Advanced Microstructures and Devices (CAMD));	Proyag Datta; Yohannes Desta;	1	\$ 52,297
				Total	\$ 52,297
E	Proposal is a New Request				

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
009ENGB-06 ENG B	A Digital Microscopy System for Applications in Microdevice Evaluation, Materials Development and Testing and BioMEMS	Louisiana State University And A&M College - Baton Rouge (Mechanical Engineering);	Srinath V. Ekkad; Jiaping Wang; Ramachandra V. Devireddy; Wen-Jin Meng;	1	\$ 35,000
				Total	\$ 35,000
E	Proposal is a New Request				
010ENGB-06 ENG B	Enhancement of Process and Metrology Equipment in the CAMD Cleanroom	Louisiana State University And A&M College - Baton Rouge (CAMD);	Jost Goettert; Tracy Morris; Yohannes Desta; Yoonyoung Jin;	1	\$ 292,423
				Total	\$ 292,423
E	Proposal is a New Request				
011ENGB-06 ENG B	A Plasma Spray System for the Fabrication of Solid Oxide Fuel Cells	Louisiana State University And A&M College - Baton Rouge (Mechanical Engineering);	S. M. Guo; D. Nikitopoulos; M. Wahab; S. Acharya;	1	\$ 142,670
				Total	\$ 142,670
E	Proposal is a New Request				

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
012ENGB-06 ENG B	Acquisition of a High-load, Instrumented, Nanoindentation/Nanoscratch System	Louisiana State University And A&M College - Baton Rouge (Mechanical Engineering);	Wen J. Meng; Guoqiang Li; Jiaping Wang; Kun Lian;	1	\$ 123,395
				Total	\$ 123,395
E	Proposal is a New Request				
013ENGB-06 ENG B	Multiscale Molding Research Infrastructure	Louisiana State University And A&M College - Baton Rouge (Mechanical Engineering);	Michael C. Murphy; Dimitris Nikitopoulos; Jinwoo Choi; Steven A. Soper; Sunggook Park;	1	\$ 260,000
				Total	\$ 260,000
E	Proposal is a New Request				
014ENGB-06 ENG B	A Real-Time, Stereoscopic Imaging System for Multi-Scale Applications	Louisiana State University And A&M College - Baton Rouge (Mechanical Engineering);	Dimitris E. Nikitopoulos; F. Carl Knopf; John R. Smith; Marc Levitan; Shengmin Guo; Sumanta Acharya; Wen-Jin Meng;	1	\$ 177,000
				Total	\$ 177,000
E	Proposal is a New Request				

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
015ENGB-06 ENG B	Upgrading LSU Structural Materials and Systems Lab to Meet 21st Century Challenges	Louisiana State University And A&M College - Baton Rouge (Civil & Environmental Engineering);	Ayman M. Okeil; George Z. Voyiadjis; R. Richard Avent; Steve C.S. Cai;	1	\$ 245,975
				Total	\$ 245,975
E					
Proposal is a New Request					
016ENGB-06 ENG B	Enhancement of Rock-Fluids Interactions Laboratory	Louisiana State University And A&M College - Baton Rouge (Petroleum Engineering);	Dandina N. Rao; Subhash C. Ayirala;	1	\$ 457,503
				Total	\$ 457,503
E					
Proposal is a New Request					
017ENGB-06 ENG B	Acquisition of a Scanning Probe Microscopy System for Multidisciplinary Nanoscale Materials Research and Education	Louisiana State University And A&M College - Baton Rouge (Physics and Astronomy);	Phillip Sprunger; Jayne C. Garno; Orhan Kizilkaya; Richard L. Kurtz; Robin L. McCarley; Wen J. Meng; Yaroslav Losovyi;	1	\$ 233,400
				Total	\$ 233,400
E					
Proposal is a New Request					

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
018ENGB-06 ENG B	Acquisition of a Magnetron Sputtering System for Thin Films Fabrication	Louisiana State University And A&M College - Baton Rouge (Mechanical Engineering);	Jiaping Wang; Bingqing Wei; Sunggook Park; Wanjun Wang; Wen Jin Meng;	1	\$ 150,000
				Total	\$ 150,000
E					
Proposal is a New Request					
019ENGB-06 ENG B	Enhancement of Undergraduate Learning at LSUS	Louisiana State University And A&M College - Shreveport (Engineering/Industrial Technology);	G. R. Boucher; J. M. Hatcher;	1	\$ 37,659
				Total	\$ 37,659
E					
Proposal is a New Request					
020ENGB-06 ENG B	Advanced Cementitious Materials Laboratory Enhancement	Louisiana Tech University (Civil Engineering);	Erez Allouche; Aziz Saber; David Hall; Henry Cardenas; Luke Lee; Mike Baumert; Ray Sterling;	1	\$ 92,030
				Total	\$ 92,030
E					
Proposal is a New Request					

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
021ENGB-06 ENG B	Undergraduate Biomedical Instrumentation Laboratory	Louisiana Tech University (Biomedical Engineering);	Walter G. Besio; Steven A. Jones;	1	\$ 66,769
				Total	\$ 66,769
E					
Proposal is a New Request					
022ENGB-06 ENG B	Enhancement of Flexible Manufacturing Laboratory	Louisiana Tech University (Industrial Engineering);	Jun -Ing Ker;	1	\$ 52,280
				Total	\$ 52,280
E					
Proposal is a New Request					
023ENGB-06 ENG B	Visualization Laboratory for Micro/Nanotechnology Education	Louisiana Tech University (Biomedical Engineering);	Cheng Luo; Steven Jones;	1	\$ 48,000
				Total	\$ 48,000
E					
Proposal is a New Request					

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
024ENGB-06 ENG B	Structural Health Monitoring System	Louisiana Tech University (Civil Engineering);	Aziz Saber;	1	\$ 44,283
				Total	\$ 44,283
E					
Proposal is a New Request					
025ENGB-06 ENG B	Characterization Laboratory for Biomaterials and Tissue Engineering	Louisiana Tech University (Biomedical Engineering);	Ping -Fai Sit; Michael McShane;	1	\$ 151,000
				Total	\$ 151,000
E					
Proposal is a New Request					
026ENGB-06 ENG B	Enhancing Micro/Nanotechnology Education with Device Characterization Training Laboratory	Louisiana Tech University (Electrical Engineering);	Yi Su; Hisham Hegab;	1	\$ 82,284
				Total	\$ 82,284
E					
Proposal is a New Request					

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
027ENGB-06 ENG B	Enhancement of Lean Manufacturing Laboratory	Louisiana Tech University (Industrial Engineering);	Dileep Sule;	1	\$ 44,971
				Total	\$ 44,971

E

Proposal is a **New Request**

028ENGB-06 ENG B	Enhancement of Educational and Research Infrastructure for Nanosystems Engineering and Molecular Science and Nanotechnology Curricula	Louisiana Tech University (Institute for Micromanufacturing);	Kody Varahramyan; John McDonald; Tabbetha A. Dobbins; Yuri M. Lvov;	1	\$ 89,395
				Total	\$ 89,395

E

Proposal is a **New Request**

029ENGB-06 ENG B	Expanding the Capabilities of the Engineering Department Through the Addition of 3D Solids Modeling	McNeese State University (Engineering);	Bruce Savage;	1	\$ 43,950
				Total	\$ 43,950

E

Proposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
030ENGB-06 ENG B	Geospatial Technology Laboratory for the New Geomatics Program at Nicholls State University	Nicholls State University (Applied Sciences);	Balaji Ramachandran; Terry J. Dantin; Thomas M. Bonvillain;	1	\$ 145,000
				Total	\$ 145,000
E					
Proposal is a New Request					
031ENGB-06 ENG B	Experimental Internal Combustion Engine Laboratory for Engineering	Southern University and A&M College at Baton Rouge (Mechanical Engineering);	Edgar R. Blevins; Patrick Mensah;	1	\$ 105,778
				Total	\$ 105,778
E					
Proposal is a New Request					
032ENGB-06 ENG B	Enhancement of the Microstructure X-ray Gas Detector Laboratory	Southern University and A&M College at Baton Rouge (Electrical Engineering);	Elhag H. Shaban;	1	\$ 18,000
				Total	\$ 18,000
E					
Proposal is a New Request					

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
033ENG B-06	Acquisition of a Nanoindenter for Research and Education in Nano/Micro/Bio Materials	Tulane University (Mechanical Engineering);	T. A. Venkatesh;	1	\$ 98,910
				Total	\$ 98,910
E					
Proposal is a New Request					
034ENG B-06	An Interdisciplinary Instrumentation and Measurement Laboratory for Undergraduate Instruction and Research	University of Louisiana at Lafayette (Industrial Technology);	Cherif Aissi; M. A. Elsayed;	1	\$ 86,045
				Total	\$ 86,045
E					
Proposal is a New Request					
035ENG B-06	The Development of an Interactive Virtual Reality Module for Teaching Production Concepts	University of Louisiana at Lafayette (Mechanical Engineering);	Suren Dwivedi; Ghanshyam Joshi; Theodore Kozman; William Emblom; William Mueller;	1	\$ 86,304
				Total	\$ 86,304
E					
Proposal is a New Request					

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
036ENGB-06 ENG B	Promoting State-of-the-Art Learning Among Undergraduate Engineering Students by Incorporating Integrated Product and Process Development	University of Louisiana at Lafayette (Mechanical Engineering);	Suren Dwivedi; Ghanshyam Joshi; William Mueller; William Emblom;	1	\$ 132,758
E				Total	\$ 132,758
Proposal is a New Request					
037ENGB-06 ENG B	Development and Implementation of a Petroleum Recovery Technology Concentration in Offshore Petroleum Exploration and Production in a Petroleum Engineering Curriculum	University of Louisiana at Lafayette (Petroleum Engineering);	Boyun Guo;	1	\$ 63,046
N				Total	\$ 63,046
Proposal is a New Request					
038ENGB-06 ENG B	Computer-Aided Experimentation Systems for Mechanical Systems and Fluid Power Undergraduate Laboratories	University of Louisiana at Lafayette (Industrial Technology);	Jerry K. Keska; Thomas W. Davies;	1	\$ 53,310
E				Total	\$ 53,310
Proposal is a New Request					

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
039ENGB-06 ENG B	Nanotechnology Equipment to Enhance Microelectronic Research Laboratory	University of Louisiana at Lafayette (Electrical and Computer Engineering);	Mohammad R. Madani; Robert D. Braun; Zhongqi Pan;	1	\$ 116,875
				Total	\$ 116,875

E

Proposal is a **New Request**

040ENGB-06 ENG B	PC Net for Digital and Analog Electronics Technology Laboratory (ELnet)	University of Louisiana at Lafayette (Industrial Technology);	G. H. Massiha; Hebert A. Hebert; Terrence L. Chambers;	1	\$ 51,400
				Total	\$ 51,400

E

Proposal is a **New Request**

041ENGB-06 ENG B	Acquisition of Magnetometer System for Teaching and Research of Functional Materials	University of Louisiana at Lafayette (Chemical Engineering);	R. Devesh K. Misra; R. S. Perkins;	1	\$ 167,660
				Total	\$ 167,660

E

Proposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
042ENGB-06 ENG B	Indentation System to Promote Teaching and Research of Mechanical Behavior of Materials	University of Louisiana at Lafayette (Chemical Engineering);	R. Devesh K. Misra; M. Elsayed;	1	\$ 159,325
				Total	\$ 159,325

E

Proposal is a **New Request**

043ENGB-06 ENG B	Instrumentation for Measurement of Surface Area and Pore Size Distribution of Porous and High Surface Area Materials	University of Louisiana at Lafayette (Chemical Engineering);	Bernard Newman;	1	\$ 57,030
				Total	\$ 57,030

E

Proposal is a **New Request**

044ENGB-06 ENG B	Establishment of Solar Air Conditioning Lab	University of Louisiana at Lafayette (Mechanical Engineering);	Gongtao Wang; John Guillory; Terrence L. Chambers; William E. Simon;	1	\$ 153,285
				Total	\$ 153,285

E

Proposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
045ENGB-06 ENG B	Establishment of Biodiesel Performance Evaluation Capability	University of Louisiana at Lafayette (College of Engineering);	Mark E. Zappi;	1	\$ 175,000
				Total	\$ 175,000
E					
Proposal is a New Request					
046ENGB-06 ENG B	Rapid Prototyping Laboratory Enhancement	University of New Orleans (Mechanical Engineering);	Paul D. Herrington; Paul J. Schilling;	1	\$ 158,378
				Total	\$ 158,378
E					
Proposal is a New Request					
047ENGB-06 ENG B	Proposal for Development of University Materials Science Teaching Laboratory (MSTL)	University of New Orleans (Mechanical Engineering);	David Hui; Leo Daniel;	1	\$ 200,000
				Total	\$ 200,000
E					
Proposal is a New Request					

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
048ENGB-06 ENG B	Technology Enhancement for Fabrication of Patterned Nanostructures by Means of Ion Milling Technique	University of New Orleans (Advanced Materials Research Institute);	Leszek M. Malkinski; Carl Ventrice, Jr.; Jinke Tang; John B. Wiley;	1	\$ 116,250
				Total	\$ 116,250
E	Proposal is a New Request				
049ENGB-06 ENG B	Metallurgical Analysis of Friction Stir Welded Joints	University of New Orleans (Mechanical Engineering);	Paul J. Schilling; Paul Herrington;	1	\$ 131,700
				Total	\$ 131,700
E	Proposal is a New Request				
050ENGB-06 ENG B	Acquisition of a Spectroscopic Ellipsometer for Research and Education in Nanoscale Materials	University of New Orleans (Advanced Materials Research Institute);	Kevin L. Stokes; John Wiley; Leonard Spinu; Leszek Malkinski;	1	\$ 132,041
				Total	\$ 132,041
E	Proposal is a New Request				

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
051ENGB-06 ENG B	A Thermogravimetric-Analysis/Mass-Spectroscopy System for Materials Characterization	University of New Orleans (Advanced Materials Research Institute);	John B. Wiley; C. J. O'Connor; Heike Gabrisch; Jiye Fang; Michael Harmjanz; Paul Hanson;	1 Total	\$ 105,584 \$ 105,584

E
Proposal is a **New Request**

052ENGB-06 ENG B	Developing Nanomeasurement System In situ Field Emission Electron Microscope	University of New Orleans (Advanced Materials Research Institute (AMRI));	Zhou Weillie; John B. Wiley; Kevin L. Stokes;	1 Total	\$ 116,900 \$ 116,900
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E
Proposal is a **New Request**

Summary of Proposals Submitted to the Traditional Enhancement Program - Engineering B for the FY 2005-2006 Review Cycle			
Total Number of Proposals Submitted	Total First-Year Funds Requested	Total Funds Requested	Total First-Year Funds Available
52	\$ 6,754,595	\$ 6,754,595	\$2,389,099

Appendix B

Rating Forms

- A. For Equipment Proposals
- B. For Non-Equipment Proposals

**BOARD OF REGENTS SUPPORT FUND
ENHANCEMENT PROGRAM, FISCAL YEAR 2005-06**

**RATING FORM FOR TRADITIONAL AND UNDERGRADUATE ENHANCEMENT PROPOSALS
PURCHASE OF INSTRUCTIONAL AND RESEARCH EQUIPMENT**

INSTRUCTIONS: The completed evaluation form should represent the consensus of the expert members of the review panel and, as such, must reflect the final decisions of that panel. Review this form and the program guidelines prior to reading the proposal. The higher the score, the more clearly the proposal satisfies the criterion under consideration. Guidelines should not be interpreted to exclude from eligibility departments and/or units engaged solely in instruction. Use the white space provided to explain the panel's ratings, especially on items given low scores. Attach additional pages, as necessary.

A. THE CURRENT SITUATION--Total of 10 points

- YES _____ NO _____
- _____ of 5 pts. A.1 Has the applicant adequately described the institution and unit(s)/department(s) that will benefit from the proposed project, especially in terms of mission, faculty, students, and relevant institutional or departmental resources?
- _____ of 5 pts. A.2 To what extent will the proposed project enhance the affected department(s) or unit(s)?
- _____ of 5 pts. A.3 To what extent will the project complement and improve upon existing resources of the department(s) or unit(s)?

COMMENTS:

B. THE ENHANCEMENT PLAN--Total of 52 points

- _____ of 20 pts. B.1 Are the objectives clearly stated? Can the objectives be completed within the timeframe detailed in the proposal?
- _____ of 20 pts. B.2 To what extent will the proposed project catapult the department(s) or unit(s) into attaining a high level of regional, national, or international eminence--or maintaining a current high level of eminence--commensurate with degree offerings and/or functions?
- _____ of 5 pts. B.3 To what extent will the proposed project have an impact on the variety and quality of curricular offerings and instructional methods within the affected department(s) or unit(s)? Appropriate to current thinking in the specific field(s) or discipline(s) of the proposed project, is reform of undergraduate education and/or teacher preparation encouraged?
- _____ of 2 pts. B.4 To what extent will the proposed project enhance the ability of the department(s) or unit(s) to attract and/or retain students of high quality, particularly high quality students from Louisiana?
- _____ of 5 pts. B.5 To what extent will the project contribute to improving the quality and effectiveness of faculty teaching and improve faculty pedagogical practices within the context of current thinking on reform of undergraduate education and teacher preparation, specific to field(s) or discipline(s) of the proposed project?

COMMENTS:

C. EQUIPMENT--Total of 10 points

- _____ of 6 pts. C.1 To what extent has the proposal established a relationship between the enhancement plan and the items of equipment requested? Is the equipment well-justified? Will it significantly enhance the existing technological capability of the department? Does it reflect current and projected trends in technology?
- _____ of 1 pt. C.2 Has there been a thorough survey of the current equipment inventory and does the proposal plan to make full use of it?
- _____ of 3 pts. C.3 To what extent does the proposal present a reasonable plan to ensure a maximum usable lifetime for the equipment? Are housing and maintenance arrangements for equipment adequate?

COMMENTS:

D. FACULTY AND STAFF EXPERTISE--Total of 12 points

- _____ of 12 pts D.1 Are the faculty and support personnel appropriately qualified to implement this project? If special training will be required for faculty and/or other personnel, has an appropriate plan been developed?

COMMENTS:

E. ECONOMIC AND/OR CULTURAL DEVELOPMENT AND IMPACT--Total of 12 points

- _____ of 2 pts. E.1 To what extent will the project assist in establishing a new relationship, or strengthen an existing relationship, with one or more industrial/institutional sponsors (e.g., private business, trade organization, professional organization, non-profit or community organization, another university or consortium of universities, federal government agency)?

NOTE TO REVIEWER: Depending on the discipline of the submitting department or unit, provide rating points for EITHER E.2a OR E.2b:

- _____ of 10 pts. E.2a For science/engineering proposals only: To what extent will the project assist the submitting department(s)/unit(s) in promoting or enhancing the economic development of the State of Louisiana?
- E.2b For non-science/non-engineering proposals only: To what extent will the project contribute to the academic and/or cultural resources of the State of Louisiana?

COMMENTS:

Proposal Number: _____

Principal Investigator: _____

F. ADDITIONAL FUNDING SOURCES--Total of 4 points

_____ of 4 pts.

F.1 To what extent will the costs associated with this project be shared through contributions from the institution(s) involved and/or external organizations?

COMMENTS:

G. PREVIOUS SUPPORT FUND AWARDS--No points assigned

YES ___ NO ___

G.1 If the Project Director or Co-Project Director has received previous Support Fund support, has it been adequately documented?

COMMENTS:

H. TOTAL SCORE: (NOTE: Proposals with a total score below 70 will not be recommended for funding.)

_____ of 100 points

SPECIFIC BUDGETARY RECOMMENDATIONS

Requested Amount \$ _____

Recommended Amount \$ _____

COMMENTS:

=====

I agree to maintain in confidence any information, documentation and material of any kind (hereinafter referred to as "Material") included in this proposal; I further agree not to disclose, divulge, publish, file patent application on, claim ownership of, exploit or make any other use whatsoever of said "Material" without the written permission of the principal investigator. To the best of my knowledge, no conflict of interest is created as a result of my reviewing this proposal.

Reviewer's Name and Institution: _____

Reviewer's Signature: _____ Date: _____

**BOARD OF REGENTS SUPPORT FUND
ENHANCEMENT PROGRAM, FISCAL YEAR 2005-06**

**RATING FORM FOR TRADITIONAL AND UNDERGRADUATE ENHANCEMENT PROPOSALS
REQUESTS OTHER THAN EQUIPMENT PURCHASES (e.g., Colloquia, Curricular Revisions, etc.)**

INSTRUCTIONS: The completed evaluation form should represent the consensus of the expert members of the review panel and, as such, must reflect the final decisions of that panel. Review this form and the program guidelines prior to reading the proposal. The higher the score, the more clearly the proposal satisfies the criterion under consideration. Guidelines should not be interpreted to exclude from eligibility departments and/or units engaged solely in instruction. Use the white space provided to explain the panel's ratings, especially on items given low scores. Attach additional pages, as necessary.

A. THE CURRENT SITUATION--Total of 10 points

- YES _____ NO _____
- _____ of 5 pts. A.1 Has the applicant adequately described the institution and unit(s)/department(s) that will benefit from the proposed project, especially in terms of mission, faculty, students, and relevant institutional or departmental resources?
- _____ of 5 pts. A.2 To what extent will the proposed project enhance the affected department(s) or unit(s)?
- _____ of 5 pts. A.3 To what extent will the project complement and improve upon existing resources of the department(s) or unit(s)?

COMMENTS:

B. THE ENHANCEMENT PLAN--Total of 62 points

- _____ of 25 pts. B.1 Are the objectives clearly stated? Can the objectives be completed within the timeframe detailed in the proposal?
- _____ of 25 pts. B.2 To what extent will the proposed project catapult the department(s) or unit(s) into attaining a high level of regional, national, or international eminence--or maintaining a current high level of eminence--commensurate with degree offerings and/or functions?
- _____ of 5 pts. B.3 To what extent will the proposed project have an impact on the variety and quality of curricular offerings and instructional methods within the affected department(s) or unit(s)? Appropriate to current thinking in the specific field(s) or discipline(s) of the proposed project, is reform of undergraduate education and/or teacher preparation encouraged?
- _____ of 2 pts. B.4 To what extent will the proposed project enhance the ability of the department(s) or unit(s) to attract and/or retain students of high quality, particularly high quality students from Louisiana?
- _____ of 5 pts. B.5 To what extent will the project contribute to improving the quality and effectiveness of faculty teaching and improve faculty pedagogical practices within the context of current thinking on reform of undergraduate education and teacher preparation, specific to field(s) or discipline(s) of the proposed project?

COMMENTS:

C. FACULTY AND STAFF EXPERTISE--Total of 12 points

_____ of 12 pts.

C.1 Are the faculty and support personnel appropriately qualified to implement this project? If special training will be required for faculty and/or other personnel, has an appropriate plan been developed?

COMMENTS:

D. ECONOMIC AND/OR CULTURAL DEVELOPMENT AND IMPACT--Total of 12 points

_____ of 2 pts.

D.1 To what extent will the project assist in establishing a new relationship, or strengthen an existing relationship, with one or more industrial/institutional sponsors (e.g., private business, trade organization, professional organization, non-profit or community organization, another university or consortium of universities, federal government agency)?

NOTE TO REVIEWER: Depending on the discipline of the submitting department or unit, provide rating points for EITHER D.2a OR D.2b:

_____ of 10 pts.

D.2a For science/engineering proposals only: To what extent will the project assist the submitting department(s)/unit(s) in promoting or enhancing the economic development of the State of Louisiana?

D.2b For non-science/non-engineering proposals only: To what extent will the project contribute to the academic and/or cultural resources of the State of Louisiana?

COMMENTS:

E. ADDITIONAL FUNDING SOURCES--Total of 4 points

_____ of 4 pts.

E.1 To what extent will the costs associated with this project be shared through contributions from the institution(s) involved and/or external organizations?

COMMENTS:

F. PREVIOUS SUPPORT FUND AWARDS--No points assigned

YES___ NO_____

F.1 If the Project Director or Co-Project Director has received previous Support Fund support, has it been adequately documented?

COMMENTS:

Proposal Number: _____

Principal Investigator: _____

G. TOTAL SCORE (NOTE: Proposals with a total score below 70 will not be recommended for funding.)

_____ of 100 points

SPECIFIC BUDGETARY RECOMMENDATIONS

Requested Amount: \$ _____

Recommended Amount: \$ _____

COMMENTS:

=====

I agree to maintain in confidence any information, documentation and material of any kind (hereinafter referred to as "Material") included in this proposal; I further agree not to disclose, divulge, publish, file patent application on, claim ownership of, exploit or make any other use whatsoever of said "Material" without the written permission of the principal investigator. To the best of my knowledge, no conflict of interest is created as a result of my reviewing this proposal.

Reviewer's Name and Institution: _____

Reviewer's Signature: _____

Date: _____
(Form 6.12, rev.2004)