FY 2005-2006 PLAN AND BUDGET
FOR THE EXPENDITURE OF REVENUES AVAILABLE FROM THE
BOARD OF REGENTS SUPPORT FUND
WITH AN OVERVIEW OF PRELIMINARY RESULTS OBTAINED

SUBMITTED TO THE
GOVERNOR AND LEGISLATURE
IN ACCORDANCE WITH THE CONSTITUTIONAL PROVISIONS OF
ARTICLE VII, SECTION 10.1

ADOPTED
JANUARY 27, 2005
BY THE
BOARD OF REGENTS
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OVERVIEW OF RESULTS
from the
Investment of Board of Regents Support Fund Money
in Higher Education

✦ **$649.4 MILLION GENERATED IN NEW EXTERNAL FUNDING** (through 6/30/2004)
  From federal, private, and other non-Support Fund sources

✦ **AN ADDITIONAL $229.7 MILLION GENERATED IN EXTERNAL CONTRIBUTIONS**
  For Endowed Chairs and Professorships

✦ **2,480 EXTERNAL AWARDS**
  From federal, private, and other non-Support Fund sources

✦ **212 $1 MILLION CHAIRS AND 18 $2 MILLION CHAIRS** for eminent scholars
  endowed at 21 universities

✦ **1,357 $100,000 PROFESSORSHIPS** endowed at 34 campuses

✦ **1:1.73 RATE OF RETURN** for all projects funded since 1987
  For every Support Fund dollar invested, $1.73 has been returned to the State

✦ **115 PATENTS ISSUED; 68 PATENT APPLICATIONS PENDING**

✦ **8,327 PUBLICATIONS** in refereed journals (published, in press, or accepted)

✦ **LaSIP** (Regents/BESE/NSF/Louisiana Legislature) produces rising student scores on statewide tests

✦ **EXPANDED UNIVERSITY COLLABORATION** to increase research competitiveness for
  federal R&D money
PLAN AND BUDGET
FOR THE EXPENDITURE OF REVENUES AVAILABLE FROM
THE BOARD OF REGENTS SUPPORT FUND
FISCAL YEAR 2005-2006

PREFACE

The Governor, Legislature, and public should recognize that a sound educational system at all levels and in all disciplines—which is well-supported on a consistent basis—is crucial to enhancing academic programs and units and promoting economic development, the two goals of the Constitutional amendment which created the Louisiana Education Quality Support Fund (hereinafter referred to as Board of Regents Support Fund). The four programs of the Board of Regents Support Fund pursue different but related strategies in the quest to achieve these goals. All disciplines are eligible to compete in the Graduate Fellows, Enhancement, and Endowed Chairs Programs, thus reflecting the Board's broad and long-range commitment to strengthen all disciplines and, in so doing, to promote long-term economic development through the enhancement of higher education in general. Competition in the Research and Development (R & D) Program has generally been restricted to those disciplines where the promotion of basic and applied research is essential for near-term economic development. Beginning in FY 2004-05, one of the R & D subprograms will focus on research efforts in the arts, social sciences, and humanities. (See section 5.4 below.)

1. INTRODUCTION

According to Article VII, Section 10.1, of the Louisiana Constitution, at least sixty days prior to each regular session of the Legislature the Board of Regents must submit to the Governor and the Legislature a proposed plan and budget for the expenditure, during the coming fiscal year, of money available to higher education from the Board of Regents Support Fund. Higher education's portion of these funds may be spent for "any or all" of the following purposes: (1) endowment of chairs for eminent scholars (hereinafter referred to as the Endowed Chairs Program); (2) recruitment of superior graduate students (the Graduate Fellows Program, including Traditional Graduate Fellows and Graduate Fellowships for Teachers); (3) carefully defined research efforts (the R & D Program, including the Research Competitiveness Subprogram, the Industrial Ties Research Subprogram, the closely related SBIR/STTR/Phase Zero Subprogram, and the Awards to Louisiana Artists and Scholars [ATLAS] subprogram); and (4) enhancement of the quality of academic, research, or agricultural departments or units within a university (the Enhancement Program, including the Traditional Enhancement Program, the Undergraduate Enhancement Program, the Endowed Professorships Program, and the Enhancement Program for Two-Year Institutions).

1.1 BOARD OF REGENTS SUPPORT FUND PROJECTION, FY 2005-2006

The State Treasurer's office projects that the amount of money to be available for higher education from the Louisiana Education Quality Trust Fund in FY 2005-2006 will be $26,650,000.

1.2 BUDGET RATIONALE AND PREAMBLE

In deliberations about the Board of Regents Support Fund Plan and Budget for FY 2005-2006, the Board again noted the persistence of four related Support Fund issues requiring long-range strategic planning:

- An overall decline in the projection of monies available from the Trust Fund during the past several years, from $30.8 million in FY 1993-94 to the $26.65 million projected for higher education in FY 2005-2006;
Steadily increasing demands for Support Fund resources under all four Program components with concomitant increases in proposal quality and outstanding results achieved, including the leveraging during the grant period of $1.73 in non-State money for every Support Fund dollar awarded;

The State's expanding emphasis on economic development and diversification through Vision 2020; and,

Unusually great and increasing demands for resources to create endowments--for both eminent scholars and professorships.

For example, the $3,220,000 budgeted in the current year (FY 2004-2005) for endowed chairs will permit the Board to provide matching money for only a small percentage of the anticipated requests. Similarly, the $2.6 million budgeted for endowed professorships in the current year's budget is woefully insufficient to fund the anticipated requests. It would take at least $10 million—in addition to the $5,820,000 budgeted this fiscal year—from the Support Fund to fill all anticipated chair and professorship requests.

Over the past several years the overall decline in funds available and the high demand for endowment money, as evidenced from the previous example, have persuaded the Board to make across-the-board reductions in the budgets for new Research and Development, Enhancement, and Recruitment of Superior Graduate Students awards while maintaining budgets for endowment programs. This choice has been a conscious one, because the Board is aware of the ever-increasing importance of private philanthropy to the overall fiscal health of higher education. Moreover, the Board knows that the Support Fund is a powerful tool for attracting private donors to become involved with and support higher education.

Nevertheless, it is vital that robustness be maintained in all four interrelated Support Fund components. While the Board lauds the growth in private philanthropy reflected in the increased applications for endowed chairs and professorships, the Regents are also mindful that further cuts in budgets for Enhancement, R & D and Recruitment of Superior Graduate Students would jeopardize the viability of these components and hence impair the overall quality of the Support Fund programs. Endowed chairholders and professors must have basic infrastructural equipment, supportive cutting-edge research in affected departments and units, and top quality graduate students in order to achieve the results expected of them.

For these compelling reasons, the Board of Regents strongly recommends to the Governor and the Legislature that approximately $10 million in State General Fund money be appropriated to the Board to fund the anticipated excess FY 2005-06 requests for endowed chairs and professorships. If, in future years, requests for chairs and professorships greatly exceed the long-range allocations to be established by the Board for these programs, consideration again should be given to the provision of another special appropriation to fund the endowment requests.

1.3 TOTAL AVAILABLE BUDGET, FY 2005-2006: $33,204,181

Since the inception of the BoRSF Program, the Board and its staff have traditionally used the figure projected by the State Treasurer's Office for funds available for BoRSF expenditures as the basis for the plan and budget. The Treasurer's estimate has generally been conservative, and in many years the discrepancy between the estimate and the amount ultimately available for expenditure has been sizeable. Accordingly, at its meeting of January 24, 2003, the Board approved a policy relative to the annual projection of plan and budget funds available designed to stabilize budgetary planning and make it more rational.
POLICY RELATIVE TO THE ANNUAL PROJECTION OF PLAN AND BUDGET FUNDS AVAILABLE

Beginning with FY 2004-05, the total funds budgeted in each BoRSF plan and budget shall be computed as follows: the income actually received from the Support Fund for distribution during the most recently completed fiscal year shall be compared with the Treasurer’s estimate for that fiscal year. The difference between the income actually received and the amount estimated shall, as applicable, be added to or subtracted from the amount projected by the Treasurer’s Office to be available for the year in which the new BoRSF plan and budget is being prepared.

Application of this policy results in the following increment to be used for the FY 2005-06 Plan and Budget:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual Income Realized for FY 2003-04:</td>
<td>$32,391,854</td>
</tr>
<tr>
<td>State Treasurer’s Estimate for FY 2003-04:</td>
<td>$26,650,000</td>
</tr>
<tr>
<td>Difference equals</td>
<td>$5,741,854</td>
</tr>
</tbody>
</table>

This Plan and Budget recommends expenditure of the $26.65 million projected to be available for higher education in FY 2004-2005 from Trust Fund interest earnings and royalty income, the $5,741,854 derived from application of the above referenced policy, and $3,462,327 from the State General Fund or the Reserve Fund,* for a total FY 2005-2006 budget of $33,204,181.

1.4 ADOPTION OF FY 2005-2006 PLAN AND BUDGET

Based on the fiscal estimates provided by the Office of the State Treasurer and the Revenue Estimating Conference, as well as the anticipated $3,462,327 from the State General Fund or the Reserve Fund and consistent with the Strategic Plan for the Board of Regents Support Fund, the following plan and budget for FY 2005-2006 were adopted by the Board of Regents at its meeting of January 27, 2005. (See Section 2 for a discussion of the Strategic Plan.)

2. LONG-RANGE PLANNING AND EVALUATION

2.1 LONG-RANGE PLANNING

In FY 1987-88 the Board of Regents determined that, in addition to the Constitutionally-required annual plan and budget which set forth short-term programmatic goals and fiscal objectives, a comprehensive overview of tactics and strategies was required to accomplish fully the interrelated

*In light of declining interest rates, as well as the uncertainties surrounding the impact of the 1994 Constitutional amendment enabling the State Treasurer to place up to 35% of the Trust Fund money in higher-yielding investments, the Board believes that maintaining a minimal "cumulative balance" as a safeguard against low interest rates and decreases in royalty income is important. The Board has decided that at least $2 million shall be maintained annually as a cumulative balance. Funds that accrue in excess of this amount may be recommended for expenditure. The Board's plan for expenditure of these funds is discussed elsewhere in this plan and budget.
purposes and goals of the Support Fund. The short-term activities outlined in the annual plans and budgets could then be shaped by these long-term goals.

The first such plan evolved from a carefully researched “White Paper” prepared by the Louisiana Stimulus for Excellence in Research (LaSER) Committee. Titled Strategic Plan for Higher Education’s Portion of the Louisiana Education Quality Support Fund, it was adopted in 1988. Cognizant of changes in economic conditions which affected academic issues, the Board in 1993 adopted a revised plan, titled Board of Regents Support Fund Long-Range Strategic Plan for Higher Education. It maintained the central themes and strategies of the earlier plan, and adjusted to changing conditions and lessons learned from seven years of experience. In 1999 the Board adopted a third revised plan to guide the Support Fund through FY 2005-06. The 1999 Plan continues the approach of balancing continuity based on effectiveness, with revisions reflecting “lessons learned.”

2.2 LONG-RANGE EVALUATION

To ensure that the Board of Regents Support Fund achieves its goals, the Board, beginning in FY 1990-91, implemented a systematic comprehensive evaluation process. This process involved four stages: (1) collection of background information; (2) submission to the Board by project directors of annual and/or final project reports; (3) submission of additional information one year after project termination; and (4) an evaluation by out-of-state experts of individual projects as well as the overall program. In the spring of 1994 such an evaluation was conducted by a distinguished panel of out-of-state experts. The Panel concluded that the Board of Regents Support Fund Program “is effectively and efficiently administered, that it is addressing some of the State’s economic development and higher education infrastructure needs, and that it has been successful in attracting federal funds to the State.”

With the opportunity to see the various Support Fund programs in operation over a period of years, new insights have been gained. Accordingly, the Board has instructed the staff, through the Evaluation Subcommittee of the Board of Regents Support Fund Planning Committee, to engage in a thorough revision of the long-range evaluation system. That process began with the comprehensive review of the Endowed Chairs Program during the summer and fall of 1998. The Endowed Chairs review culminated in the March, 1999 adoption of the Board of Regents Endowed Chairs Policy, which further strengthens a program with already impressive accomplishments. Similarly, the FY 1999-2000 comprehensive review of the Endowed Professorships Program led to the adoption, in December, 2000 of the Board of Regents Endowed Professorships Policy, providing for the improvement of that program. The FY 2000-01 review of the Recruitment of Superior Graduate Students Program led to the adoption in January, 2002 of recommendations designed to elevate the program’s accomplishments. The FY 2001-02 review of the Research and Development Program led to recommendations intended to improve and strengthen this already highly successful program. In each instance, insights from the review led to the adoption of measures that will further strengthen these programs and thus maximize their positive impact on Louisiana higher education. The Enhancement Program is scheduled for review during FY 2005-06, to be followed by a comprehensive review and evaluation of the overall BoRSF program.

*Copies of the 1988, 1993, and 1999 Strategic Plans are available in the Board’s office. Work on the next Strategic Plan is progressing during FY 2004-05.

**This Panel’s report is available in the Board’s office.
3. AN OVERVIEW OF PRELIMINARY RESULTS OBTAINED

Significant benefits have begun to accrue to the State as a result of the investment of this money in higher education. The results reported herein are even more impressive when one understands that: (1) realization of the full benefit of investment in higher education is a long-term proposition, and final results only become obvious after a period of many years; (2) reported results include only benefits derived during the life of the grants awarded, and do not attempt to measure the many benefits which accrue to affected institutions after the conclusion of the relatively brief time of Support Fund contracts; and (3) no specific benefits beyond the initial private match are claimed as a result of the Endowed Chairs for Eminent Scholars Program, and no specific external grants are attributed to the Recruitment for Superior Graduate Students program.

Annual and/or final reports have been used since the inception of the Board of Regents Support Fund Program to monitor the progress of all projects. A few of the most significant achievements are described in the following sections.

3.1 STATEWIDE RESULTS

* $879.1 million in external funds has been generated from Federal, private, and industrial sources as a result of the Board of Regents Support Fund investment in higher education, thereby significantly increasing the total monies available for higher education. This represents a return of $1.73 for every Board of Regents Support Fund dollar invested in higher education since the inception of the programs. The figure reflects only dollars generated during the life of the awards--additional revenues were will be generated after the expiration of the awards.

* Increased collaboration and coordination of efforts between Regents and BESE, as evidenced by the renewal of the $37 million joint LaSIP effort to reform K-12 and undergraduate instruction in math and science, the subsequent funding of the Delta Rural Systemic Initiative, and the joint efforts of the two boards to improve education through the Blue Ribbon Commission on Teacher Quality. (See Attachment I for descriptions of these projects.) Those collaborative efforts also contributed to the funding of Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP) by the U.S. Department of Education for $12.5 million over a five-year period.

* 2,480 grants and/or contracts have been awarded to Louisiana universities from external funding agencies directly as a result of Board of Regents Support Fund investments.

* An analysis performed by the Louisiana Department of Economic Development in 1996 concluded that, for all completed Industrial Ties Research Subprogram projects, 48% had either been successfully commercialized or were in the process of commercialization. Forty-five percent (45%) of those projects that were successfully commercialized are protected by a patent and/or license. Additionally, almost 60% of all completed projects reported significant to moderate industrial interaction.

* Increased institutional collaboration has resulted, as evidenced by the multi-million dollar, multi-institutional grants awarded to the Board of Regents on behalf of statewide university consortia for research reform initiatives. Their purpose is to increase the amount of federal research and development money awarded to Louisiana scientists and engineers statewide. (See descriptions of awards in Attachment I.)

* 115 patents have been issued, and another 68 applications are pending.
3.2 RESULTS FROM SELECTED PROJECTS

See Attachment II for brief summaries of the achievements of several selected projects.

3.3 MULTIPLIER EFFECTS

Using the input/output table constructed by the Bureau of Economic Analysis in the U.S. Department of Commerce and housed in the Department of Economics at LSU, one can estimate the "multiplier" effects that such an infusion of new dollars creates on the Louisiana economy in terms of new revenues, income, and jobs for Louisianians.

The effect of the $879.1 million in new revenues generated from Board of Regents Support Fund projects is estimated as follows:

- approximately $1.798 billion in new revenues to Louisiana firms and organizations;
- approximately $726.58 million in new income for Louisiana citizens; and
- approximately 31,400 new jobs for Louisianians.

4. LEVERAGING BOARD OF REGENTS SUPPORT FUND MONEY, EXPANDING BOARD OF REGENTS SUPPORT FUND OPPORTUNITIES, AND PROMOTING MULTI-INSTITUTIONAL COOPERATION AND COLLABORATION

As early as FY 1988-89, the Board was co-sponsoring research projects with the National Science Foundation (NSF) and supporting the development of scientific research and educational infrastructure in Louisiana under NSF's Experimental Program to Stimulate Competitive Research (EPSCoR). In FY 1991-92, the Board decided to dedicate a portion of the Board of Regents Support Fund monies as matching commitments for two new statewide, multi-institutional initiatives to be submitted in national competitions for Federal funds in areas which coincide with Constitutionally prescribed Board of Regents Support Fund activities. The reasons for, and goals of, this decision were fourfold:

- To continue and accelerate the leveraging of Federal money with Board of Regents Support Fund investments--as is being accomplished by principal investigators of individually-funded Board of Regents Support Fund projects described in Section 3 of this Plan and Budget;
- To expand opportunities available under the Board of Regents Support Fund Programs;
- To reinforce the building of infrastructure that had begun under the traditional Board of Regents Support Fund Programs, which is necessary to enable Louisiana's universities to compete more successfully for Federal research money; and,

*These estimates were determined through application of a formula developed by Dr. Loren Scott of LSU-BR, who authored "The Impact on the Louisiana Economy of $66.5 Million in Outside Research Funding at LSU," January 1990.
To promote multi-institutional collaboration and cooperation among Louisiana's colleges and universities.

The FY 1991-92 Board of Regents Support Fund Plan and Budget described the dedication of Board of Regents Support Fund money as State matching commitments for these multi-year Federal grant proposals then in preparation (FY 1990-91) under the auspices of the Board of Regents. Each proposal required significant State matching money as a condition of funding.

4.1 FUNDED PROPOSALS: JOINT BOARD OF REGENTS SUPPORT FUND/FEDERAL PROGRAMS WITH STATEWIDE IMPACT

The Board was successful in the competitions described above. These efforts served to solidify a partnership between the Support Fund and the National Science Foundation. This partnership has grown over the years to include relationships with the National Aeronautics and Space Administration, the Department of Defense, the Department of Energy, the Department of Commerce, the Environmental Protection Agency, and the National Institutes of Health. Support Fund obligations for these federal grants appear below in chart form. (See Chart I.) A more detailed description of each grant, including the federal funds received from each, can be found in Attachment I.

The Board's decision to augment the Support Fund by using a part of it to pursue federal matching grants opportunities has borne significant fruit. It has enabled the State to progress from a point in 1985-86 at which it could not receive even minimal support from NSF for research collaborations to the current situation, which finds Louisiana among the elite of EPSCoR states in terms of successful research-related activities. The current pending effort aimed at continuing this successful trend is described below.
## CHART I
### FEDERAL MATCHING GRANTS PROGRAM
FOR JOINT STATE AND FEDERAL PROJECTS WITH SYSTEMIC AND/OR STATEWIDE IMPACT
BY TYPES OF SUPPORT FUND ACTIVITY, MONETARY COMMITMENT, AND DURATION

<table>
<thead>
<tr>
<th>FEDERAL GRANT</th>
<th>TYPE OF SUPPORT FUND ACTIVITY</th>
<th>AMOUNT OF ANNUAL MATCHING COMMITMENT</th>
<th>AMOUNT OF TOTAL MATCHING COMMITMENT</th>
<th>FY's IN WHICH COMMITMENT IS APPLICABLE</th>
<th>TOTAL LENGTH OF COMMITMENT IN YEARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSF/EPSCoR*</td>
<td>TR ENH: 30% R&amp;D: 70%</td>
<td>Yr. 1 $683,043</td>
<td>$1,317,036</td>
<td>1988-89 through 1990-91</td>
<td>3*</td>
</tr>
<tr>
<td>LaSER Implemen</td>
<td>TR ENH: 30% R&amp;D: 70%</td>
<td>Yr. 2 440,202</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yr. 3 191,791</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSF/EPSCoR LaSER Advanced Development Program</td>
<td>TR ENH: 1/3 GR FEL: 1/3** ITRs: 1/3</td>
<td>$1.2 Million</td>
<td>$4.8 Million</td>
<td>1991-92 through 1994-95</td>
<td>4</td>
</tr>
<tr>
<td>NASA/LaSPACE</td>
<td>RCS: 60% GR FEL: 40%**</td>
<td>$100,000</td>
<td>$500,000</td>
<td>1991-92 through 1995-96</td>
<td>5</td>
</tr>
<tr>
<td>NSF/SI LaCEPT</td>
<td>TR ENH: 100%</td>
<td>$500,000</td>
<td>$2.5 Million</td>
<td>1992-93 through 1996-97</td>
<td>5</td>
</tr>
<tr>
<td>DOE/EPSCoR Implementation</td>
<td>TR ENH: 60% RCS: 40%</td>
<td>$519,795</td>
<td>$1,039,590</td>
<td>1993-94 through 1994-95</td>
<td>2</td>
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<tr>
<td>DOD/EPSCoR Planning</td>
<td>TR ENH: 100% RCS: 40%</td>
<td>$25,000</td>
<td>$25,000</td>
<td>1993-94</td>
<td>1</td>
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<tr>
<td>NASA/EPSCoR Implementation</td>
<td>TR ENH: 50% RCS: 25% GR FEL: 25%</td>
<td>$500,000</td>
<td>$1.5 Million</td>
<td>1994-95 through 1996-97</td>
<td>3</td>
</tr>
<tr>
<td>1993 DEPSCoR Implementation</td>
<td>TR ENH: 50% RCS: 25% GR FEL: 25%</td>
<td>Yr. 1 $166,666</td>
<td>$500,000</td>
<td>1994-95 through 1996-97</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>Yr. 2 166,666</td>
<td></td>
<td></td>
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<td></td>
<td>Yr. 3 166,667</td>
<td></td>
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<tr>
<td>NSF/SI Teaching Scholars</td>
<td>TR ENH: 100%</td>
<td>$50,000</td>
<td>$250,000</td>
<td>1994-95 through 1998-99</td>
<td>5</td>
</tr>
<tr>
<td>NSF/EPSCoR LaSER Systemic Initiatives</td>
<td>TR ENH: 60% UG ENH: 10% R&amp;D: 20% GR FEL: 10%</td>
<td>$1 Million</td>
<td>$3 Million</td>
<td>1995-96 through 1997-98</td>
<td>3</td>
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<tr>
<td>DOE/EPSCoR Implementation Renewal</td>
<td>TR ENH: 10% R&amp;D: 70% GR FEL: 25%</td>
<td>$800,000</td>
<td>$3.2 Million</td>
<td>1995-96 through 1998-99</td>
<td>4</td>
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<tr>
<td>NSF/SI LAMP</td>
<td>TR ENH: 100%</td>
<td>Yr. 1 $200,000</td>
<td>$2.2 Million</td>
<td>1995-96 through 1999-2000</td>
<td>5</td>
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<tr>
<td></td>
<td></td>
<td>Yrs.2-5 $500,000</td>
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<tr>
<td>NASA LaSPACE Renewal</td>
<td>RCS: 50% GR FEL: 50%</td>
<td>$100,000</td>
<td>$400,000</td>
<td>1996-97 through 1999-2000</td>
<td>4</td>
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<tr>
<td>1995 DEPSCoR Implementation</td>
<td>TR ENH: 50% R&amp;D: 25% GR FEL: 25%</td>
<td>Yr. 1 $551,439</td>
<td>$1,175,151</td>
<td>1996-97 through 1998-99</td>
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<td></td>
<td>Yr. 2 311,740</td>
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<td>Yr. 3 311,972</td>
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<tr>
<td>NSF/SI LaSIP Renewal</td>
<td>TR ENH: 100%</td>
<td>$1 Million</td>
<td>$5 Million</td>
<td>1996-97 through 2000-01</td>
<td>5</td>
</tr>
<tr>
<td>NASA/EPSCoR Implementation Renewal</td>
<td>TR ENH: 50% RCS: 25% GR FEL: 25%</td>
<td>$500,000</td>
<td>$1 Million</td>
<td>1997-98 through 1998-99</td>
<td>2</td>
</tr>
<tr>
<td>NSF/SI Delta Rural SI</td>
<td>TR ENH: 100%</td>
<td>$200,000</td>
<td>$1 Million</td>
<td>1997-98 through 2001-02</td>
<td>5</td>
</tr>
<tr>
<td>FEDERAL GRANT</td>
<td>TYPE OF SUPPORT FUND ACTIVITY</td>
<td>AMOUNT OF ANNUAL MATCHING COMMITMENT</td>
<td>TOTAL MATCHING COMMITMENT</td>
<td>FY's IN WHICH COMMITMENT IS APPLICABLE</td>
<td>TOTAL LENGTH OF COMMITMENT IN YEARS</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>--------------------------------</td>
<td>--------------------------------------</td>
<td>---------------------------</td>
<td>----------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>LaCEPT Supplemental Award</td>
<td>TR ENH: 100%</td>
<td>$100,000</td>
<td>$300,000</td>
<td>1998-99 through 2000-01</td>
<td>3</td>
</tr>
<tr>
<td>1997 DEPSCoR Implementation</td>
<td>TR ENH: 50% R&amp;D: 25% GR FEL: 25%**</td>
<td>$250,000</td>
<td>$750,000</td>
<td>1997-98 through 2000-01</td>
<td>3</td>
</tr>
<tr>
<td>NSF/EPSCoR New Cooperative Agreement</td>
<td>TR ENH: 75% R&amp;D: 25%**</td>
<td>$1 Million</td>
<td>$3 Million</td>
<td>1998-99 through 2000-01</td>
<td>3</td>
</tr>
<tr>
<td>1999 DEPSCoR Implementation</td>
<td>TR ENH: 100%</td>
<td>Yr. 1 $65,998 Yr. 2 61,900 Yr. 3 61,900</td>
<td>$189,798</td>
<td>1999-2000 through 2001-02</td>
<td>3</td>
</tr>
<tr>
<td>EPSCoT</td>
<td>TR ENH: 100%</td>
<td>$300,000</td>
<td>$300,000</td>
<td>1999-2000</td>
<td>1.5</td>
</tr>
<tr>
<td>NASA/EPSCoR Continuation Funding</td>
<td>TR ENH: 100%</td>
<td>$250,000</td>
<td>$250,000</td>
<td>1999-2000</td>
<td>1</td>
</tr>
<tr>
<td>NASA/EPSCoR Preparation Grant</td>
<td>TR ENH: 100%</td>
<td>$100,000</td>
<td>$100,000</td>
<td>1999-2000</td>
<td>1</td>
</tr>
<tr>
<td>NASA LaSPACE Continuation</td>
<td>TR ENH: 100%</td>
<td>$200,000</td>
<td>$1,000,000</td>
<td>2000-01 through 2004-05</td>
<td>5</td>
</tr>
<tr>
<td>EPA/EPSCoR 2000</td>
<td>TR ENH: 100%</td>
<td>Yr. 1 $255,261 Yr. 2 244,739</td>
<td>$500,000</td>
<td>1999-2000 through 2000-01</td>
<td>2</td>
</tr>
<tr>
<td>LAMP Phase II</td>
<td>TR ENH: 100%</td>
<td>$500,000</td>
<td>$2.5 Million</td>
<td>2000-01 through 2004-05</td>
<td>5</td>
</tr>
<tr>
<td>NSF/EPSCoR Research Infrastructure Improvement</td>
<td>TR ENH: 100%</td>
<td>$1 Million</td>
<td>$3 Million</td>
<td>2001-02 through 2003-04</td>
<td>3</td>
</tr>
<tr>
<td>NASA/EPSCoR 2000</td>
<td>TR ENH: 100%</td>
<td>$700,000</td>
<td>$2,100,000</td>
<td>2001-02 through 2003-04</td>
<td>3</td>
</tr>
<tr>
<td>EPA/EPSCoR 2001</td>
<td>TR ENH: 100%</td>
<td>Yr. 1 $250,000 Yr. 2 244,542</td>
<td>$494,542</td>
<td>2002-03 through 2003-04</td>
<td>2</td>
</tr>
<tr>
<td>NSF/EPSCoR Research Infrastructure Improvement II</td>
<td>TR ENH: 100%</td>
<td>$1 Million</td>
<td>$3 Million</td>
<td>2003-04 through 2005-06</td>
<td>3</td>
</tr>
<tr>
<td>DOE/EPSCoR Implementation 2004</td>
<td>TR ENH: 100%</td>
<td>$400,000</td>
<td>$1,200,000</td>
<td>2004-05 through 2006-07</td>
<td>3</td>
</tr>
<tr>
<td>LAMP Phase III (pending)</td>
<td>TR ENH: 100%</td>
<td>$500,000</td>
<td>$2,500,000</td>
<td>2005-06 through 2009-10</td>
<td>5</td>
</tr>
<tr>
<td>NASA LaSPACE Continuation II (pending)</td>
<td>TR ENH: 100%</td>
<td>$200,000</td>
<td>$1,000,000</td>
<td>2005-06 through 2009-10</td>
<td>5</td>
</tr>
</tbody>
</table>

*The 13 research projects that were a part of the first NSF/EPSCoR award received Board of Regents Support Fund money for two years prior to receiving NSF support in January of 1989 (FY 1988-89), for a total of five years and $3,374,355 in Board of Regents Support Fund money. This chart reflects only years three through five of Board of Regents Support Fund money (or $1,317,036), since only that period of State support that coincides with Federal Support can be counted as part of the State's matching commitment. (See Section 4.1.1.)
** Because of the nature of the Graduate Fellows Program, money for this component must be committed in the fiscal year prior to expenditure. For this reason, the first year's Graduate Fellows portion of matching funds committed to a particular project was usually actually charged to Enhancement or R&D, or prorated between the two program components. (Chartlpb.06 C:JW and 05-06/P/B)
4.2 PENDING PROPOSALS: JOINT BOARD OF REGENTS SUPPORT FUND/FEDERAL PROGRAMS WITH STATEWIDE IMPACT

4.2.1 Louis Stokes Louisiana Alliance for Minority Participation (LS-LAMP)

Initiated by the National Science Foundation (NSF), the goal of the LAMP program is to increase the number of underrepresented minorities receiving B.S. degrees in science, technology, engineering, and mathematics (STEM) in Louisiana, and to encourage these individuals to continue into graduate school.

Current and Prior Awards:

Louisiana has participated in LAMP since 1995, when the Board of Regents received the first award (Phase I) under this program. Through systemic mentoring at 12 institutions across the State, the number of minority graduates receiving B.S. degrees increased 45% (from 482 to 697). The total federal obligation amounted to $5,944,914, matched by cost sharing of $2,249,280 from the Board of Regents Support Fund.

The current Phase II LAMP project was awarded funding in October, 2000.

Duration: 5 years
Participants: Dillard, Grambling, LSU-BR, McNeese, Nunez Community College,* SU-BR, SUNO, SUSLA, Tulane, ULL, UNO, and LUMCON
NSF Award: $5,195,849
Support Fund Match: $2,500,000
Institutional Cost Share: $5,919,824
Total Project: $13,615,673

LAMP Phase II has concentrated on institutionalizing the concept of systemic mentoring at the partnering institutions. More than 350 minority STEM graduates have transitioned to STEM graduate schools in the first three years of the Phase II program.

Pending Proposal:

The LAMP Phase III proposal was submitted to NSF in October, 2004. Phase III proposes to attain the degree production objective of 1,120 minority STEM degrees and to transition at least 30% of these graduates to graduate school by the year 2010. It is expected that self-sustainability will be reached by maintaining, expanding, and institutionalizing the systemic mentoring, instructional, and research infrastructure enhancements and activities initiated during LAMP Phases I and II.

Duration: 5 years
Participants: Same as above
NSF Award: $2,500,000
Support Fund Match: $2,500,000
Institutional Cost Share: $2,500,000
Total Project: $7,500,000
4.2.2 **National Aeronautics and Space Administration (NASA) Louisiana Space Consortium (LaSPACE)**

The National Space Grant College and Fellowship Program was established by Congress in 1987 as a new NASA program to establish a national network of universities with interests and capabilities in aeronautics, space and related fields. Louisiana participates in this program through LaSPACE, which seeks to encourage cooperative programs among universities, aerospace industry, and federal, state and local governments; to promote interdisciplinary training, research and public-service programs related to aerospace; to recruit and train professionals – especially women and underrepresented minorities – for careers in aerospace science, technology and allied fields; and to develop a strong science, math and technology educational base from elementary through university levels.

**Current and Prior Awards:**

LaSPACE was initiated in 1991 and to date has received a total of $3,411,678 in federal obligations, matched by $1,900,000 from the Board of Regents Support Fund. LaSPACE has supported 116 research grants, 32 graduate student fellowships, 52 undergraduate student scholarships, 34 undergraduate research awards, and 54 K-12 outreach projects. LaSPACE also supports public outreach activities, aerospace workforce development initiatives, and student internships.

The current LaSPACE project was awarded funding in March, 2001.

**Duration:** 5 years  
**Participants:** Dillard, Grambling, LSU Ag Center, LSU-BR, Tech, Loyola, McNeese, Nicholls, Northwestern, BR Community College, SLU, SUBR, SUNO, SUSLA, Tulane, ULL, ULM, UNO, and Xavier  
**NASA Award:** $1,280,000  
**Support Fund Match:** $1,000,000  
**Total Project:** $2,280,000

**Pending Proposal:**

In 2003 the LaSPACE program participated in the Congressionally mandated fifteenth year evaluation of the National Space Grant College and Fellowship consortia. NASA has indicated by letter, dated June 25, 2004, that the LaSPACE project had performed at the highest level and was approved for a five-year program extension. The agreement formalizing this extension has not yet been received from NASA.

**Duration:** 5 years  
**Participants:** Same as above  
**NASA Award:** $1,280,000  
**Support Fund Match:** $1,000,000  
**Total Project:** $2,280,000

**It is important to note that all Federal/State cooperative endeavors expand the opportunities and increase the amount of funding available under the traditional Board of Regents Support Fund Program components. Depending upon the number of such endeavors funded in a given fiscal year, the additional amount has ranged from about $2.6 million to about $8 million per year.**
4.3 SPECIAL EFFORTS TO PROMOTE THE SUBMISSION OF MULTI-DISCIPLINARY, MULTI-INSTITUTIONAL PROPOSALS

The Board has long recognized the potential of multi-disciplinary and/or multi-institutional projects to enhance academic quality and promote economic development, as well as to make the most prudent use of scarce State resources. Accordingly, the Board has encouraged these kinds of proposals since the inception of the Board of Regents Support Fund, not only in the joint Federal/State efforts described in Sections 4.1 and 4.2 of this Plan and Budget, but also in the proposals submitted under the traditional Board of Regents Support Fund Program components. The best known manifestation of the Board's support of proposals of this type was an $800,000 award to fund the Louisiana Academic Library Network (LaLINC) proposal, which has computerized databases and linked academic libraries throughout the State.

To further emphasize its belief in the potential of multi-disciplinary, multi-campus efforts to achieve Board of Regents Support Fund goals and promote the best interests of the State, in its most recent solicitation for proposals, as well as in the 1993 and 1999 revisions of the Strategic Plan, the Board specifically encouraged the submission of collaborative efforts which would provide statewide benefits. Beginning with its FY 2000-01 budget, and continuing in FY 2004-05, the Board has set aside funds from the Traditional Enhancement program each year for the funding of these types of projects. The Board reaffirms the eligibility and encourages the submission of multi-disciplinary, multi-institutional proposals in all Board of Regents Support Fund Program components for FY 2004-2005. Consistent with the increased emphasis being placed on interdisciplinary research throughout the academic community and the increase of quality proposals submitted in this category, the Board has increased the funds available for awards in this category to $950,000 in the plan and budget for FY 2004-05. The $950,000 level will be maintained for FY 2005-06. Any unexpended multi-disciplinary money will revert to discipline-based Traditional Enhancement. (See section 5 below.)

5. BOARD OF REGENTS SUPPORT FUND PROGRAM COMPONENTS

5.1 BUDGETARY CONTINGENCIES

As indicated in Section 1.1, the Treasurer's Office has projected that $26,650,000 will be available in FY 2005-2006 for higher education from the Support Fund. The $3,462,327 from the State General Fund or the Reserve Fund and the $6,420,560 obtained by application of the Board's Policy Relative to the Annual Projection of Plan and Budget Funds Available, added to the projected $26.65 million from the Trust Fund, create a total FY 2005-2006 Support Fund budget for higher education of $33,204,181. The following budgetary allocations for each of the four major Board of Regents Support Fund Program components are calculated using this figure.

If Board of Regents Support Fund money for higher education is greater than the $33,204,181 projected, overages shall be returned to the Traditional Enhancement Program until its allocation reaches $10 million. Any amount thereafter shall be returned to the Traditional and Undergraduate components on a pro-rata basis. Reductions in the budgets for the four major Board of Regents Support Fund Program components, as set forth in Sections 5.2 through 5.5 of this document, could be required if: (a) higher education's portion of Trust Fund interest earnings and/or royalty income for FY 2005-2006 is less than the amount projected to be available by the Treasurer's Office; and/or (b) less than $3,462,327, is available for expenditure from the State General Fund or the Reserve Fund. In the event that reductions are necessary, they are to be made on a pro-rata basis among the Traditional Enhancement, Undergraduate Enhancement, and Research and Development program components.
5.2 **ENDOWED CHAIRS FOR EMINENT SCHOLARS - $3,220,000**

**Overview/Rationale**

The Endowed Chairs for Eminent Scholars Program, introduced in 1987, is designed to enhance the recruitment and retention of distinguished university faculty at institutions throughout Louisiana. Through the 2003-2004 fiscal year, 230 chairs have been funded at twenty-two institutions, and the program has generated a total endowment (counting private match) of more than $248 million.

The program pairs a 60% private-sector match with a 40% Board of Regents award to endow a chair to be filled by a scholar of high renown and great ability. The Board endows chairs in any discipline at two levels: $1 million total endowment ($600,000 match/$400,000 BoRSF) and $2 million total endowment ($1.2 million match/$800,000 BoRSF).

The competition established to determine endowment awards is rigorous and highly selective. A panel of out-of-state, non-partisan experts reviews proposals on an annual basis, and recommends for funding those most representative of and able to achieve the goals of the program. Stringent rules governing the selection of the faculty recipient are designed to ensure his or her excellence. An endowed chair must be filled through a national search and the committee conducting the search must include at least one individual recognized as an expert in the field of the chair, but who is not affiliated with the institution, the private donor, or the Board of Regents. While a chair recipient may be selected from within the affected campus, this may only be done when a national search has documented the national and/or international eminence of the prospective chairholder.

As the national search guarantees the past reputation of the chairholder, periodic peer reviews of the chairholder are intended to assure continued accomplishment. Chairholders are held to standards of performance which require that they maintain a continuing record of scholarly and creative endeavors, leadership activities, exceptional teaching, attraction of high-quality students and enhancement of the State’s economy.

**Important Historical Milestones**

- Funds first awarded in 1987
- Has been budgeted at ≥$3.2 M since 1990
- "First-come, first-served" replaced by Competitive Process in 1993
- Legislative supplemental appropriations, beginning in FY 1995-96 and continuing in most years since then, have enabled the funding of 69 chairs
- Comprehensive Reviews conducted in 1993 and 1998; Recommendations adopted for significant strengthening, especially in 1999
“Special Provisions for Public Four-Year Campuses with Less than Three Eminent Scholars Chairs” adopted in 2001 - allows public, four-year institutions with fewer than three chairs to invert the 60:40 private funds/public funds ratio, but retains the principle of competition without favor - to date, two chairs, one from Northwestern State University and one from Louisiana State University - Shreveport, have been funded under its aegis. Four additional proposals (one each from Louisiana State University - Alexandria, Louisiana State University - Shreveport, Northwestern State University and Southern University - New Orleans) are currently under consideration.

5.3 RECRUITMENT OF SUPERIOR GRADUATE STUDENTS - $3,663,000

The Recruitment of Superior Graduate Students (RSGS) Program provides resources to select departments to bring top-quality students to their graduate programs. Through the 2003-2004 fiscal year, the Board of Regents has provided over one thousand graduate fellowships to a spectrum of departments at fourteen institutions in Louisiana. About 10% of these fellowships have been awarded to programs specifically targeting in-service teachers in mathematics and science disciplines pursuing master’s degrees in Education. While the economic and cultural impact of these fellowships is difficult to quantify, it is clear that the program has contributed highly educated employees to Louisiana industry, expert teachers at levels from kindergarten to college, and a community of enthusiastic, energetic, and dedicated students to further the educational and research agendas at colleges and universities across the State.

Since 1993 two subprograms have comprised RSGS: Traditional Graduate Fellows and Graduate Fellowships for Teachers (GFT). The Traditional subprogram primarily supports excellent doctoral-level programs, but also allows stipends for students at master’s-level programs of distinction. The GFT subprogram offers support to pre- and in-service teachers seeking master’s degrees in science and/or mathematics. To apply for GFT awards, an applicant institution must offer a program that can be completed in one academic year plus an additional summer, to allow teachers to finish within a single year’s sabbatical from the classroom. Fellowship recipients, further, must pledge to teach in a Louisiana school system for at least one year after completing the master’s degree, to insure that Louisiana students reap some of the benefits of the State’s support of these teachers. Together the GF and GFT subprograms provide a comprehensive opportunity for departments across the State to receive assistance in the training and support of graduate students.

Timely implementation of the Graduate Fellows Program requires the following schedule: year one, awarding the grant; year two, recruiting by awardees of superior graduate students; and year three, disbursing funds committed under the grant. For example, colleges and universities that submit successful proposals during the current fiscal year (FY 2004-05) will have a full year (FY 2005-06) during which to recruit students, who, in turn, will enroll in Louisiana universities’ graduate programs for the first time in the fall of 2006 (FY 2006-07).

The $3,663,000 budgeted for this category for FY 2005-2006, therefore, is for previous obligations, including: (a) $863,000 for fourth-year funding of graduate fellows who began their course of study in AY 2002-2003; (b) $1,000,000 for third-year funding of graduate fellows who began their course of study in AY 2003-2004; (c) $800,000 for funding of second-year graduate fellows who began their course of study in AY 2004-2005; and (d) $1,000,000 for funding of graduate fellows who will begin their course of study in AY 2005-2006. This information is included in the current year’s plan to notify the Governor and the Legislature that an amount of approximately $3.663 million will have been committed from the FY 2006-2007 Support Fund prior to the time that the annual plan and budget are submitted for that year.
In keeping with the conceptual framework to use Support Fund money to enhance all areas of higher education, all disciplines are eligible to compete in the Graduate Fellows Program. Those disciplines accorded a higher priority for Louisiana’s economic development are eligible to compete every year. To determine the eligibility of specific disciplines in the Graduate Fellows Program for FY 2005-2006, see Chart II.

CHART II

ELIGIBILITY OF DISCIPLINES* IN THE GRADUATE FELLOWS PROGRAM

GROUP I - ELIGIBLE EVERY YEAR

- Biological Sciences
- Chemistry
- Computer and Information Sciences**
- Earth/Environmental Sciences
- Engineering A and B
- Health/Medical Sciences***
- Physics/Astronomy


- Agriculture
- Business
- Education, including Literacy
- Mathematics

GROUP III - ELIGIBLE IN FY 2001-02, 2002-03, 2003-04

- Arts
- Humanities
- Social Sciences

*The listing of those sub-disciplines which are included in these larger groupings is in Attachment III.

**The frequency of eligibility for “Computer and Information Sciences” was increased in the 1993 Strategic Plan to reflect the growing importance of this discipline for the State’s economic development and diversification.

***Effective with the Board action of June 22, 1995, the LSU Health Sciences Centers in New Orleans and Shreveport and the Tulane University Health Sciences Center are permitted to submit a maximum of three proposals each when “Health and Medical Sciences” is an eligible category. “Health and Medical Sciences” was made eligible each year in the 1999 revision of the Strategic Plan.
5.4 CAREFULLY DEFINED RESEARCH EFFORTS - $7,150,000

A total of approximately $3,600,000 will be required during FY 2005-06 to honor prior commitments for multi-year projects in the Board of Regents Support Fund R&D Program. Since most research projects are multi-year endeavors, the Board has historically been conservative in recommending an increase in funds dedicated for new research projects in the R & D Program. Allocations for new awards in the R & D program peaked at approximately $2.8 million in FY 1990-91. The budget for new R & D projects was reduced in FY 1991-92, in part because of a slight drop in total Support Funds available, but primarily as a result of the matching commitments required for federal grants.

The Research Competitiveness Subprogram has been consistently successful since its inception in FY 1986-87. Accordingly, the Board has made every effort to fund this subprogram at the highest possible level. The amount devoted to this subprogram for first-year awards was increased to $1.5 million in FY 1999-2000 and has been maintained since except in those years when ominously low economic forecasts mandated mid-year budget cuts. The $1.5 million level for new awards remains intact for FY 2005-06.

The Industrial Ties Research Subprogram has not enjoyed such a pattern of unbroken success. Louisiana’s relatively undiversified industrial economy and its dearth of large industrial-based corporations (only one Fortune 500 company and relatively few industries with substantial capacity for R & D spending) have made it difficult for university faculty to foster meaningful partnerships with industries based in the State. On the one hand, the Board has significantly reduced the funding level for this subprogram to reflect this reality, with the amount available for first-year funding of this component stabilized at $650,000 during the past several years. On the other, the Board has established a closely related new subprogram, the SBIR/STTR/Phase Zero Subprogram, in an attempt to overcome the shortcomings referenced above by “forcing” university/industry partnerships from would-be recipients. This subprogram is being developed in close cooperation with the Louisiana Department of Economic Development, and it is hoped that initial funding will be awarded in June 2005. A level of $300,000 per year is devoted to this activity.

The relative shortage of postdoctoral research associates in Louisiana has been a growing concern in recent years. There are currently just over 300 postdoctoral fellows employed statewide, with the great majority of these located at Louisiana State University - Baton Rouge, Tulane University, and their respective health sciences centers. The Board believes that the higher education community’s contribution to economic development can be significantly enhanced by an increase in the number of postdoctoral fellows. Six hundred thousand dollars ($600,000) was set aside for this purpose in the FY 2004-05 Plan and Budget, and a like amount has been approved by the Board for expenditure in FY 2005-06. This funding level, combined with a required 1:1 match from participating universities, will enable the funding of 30 postdoctoral fellows per year. As is customary under auspices of the BoRSF, awards will be made through a merit-based, peer review process.

While the Board has to date focused the R & D Program almost exclusively on the sciences, mathematics, and engineering, the Regents remain cognizant of their responsibility, elucidated in each Strategic Plan since 1988, to improve the quality of education “at all levels in all disciplines.” The comprehensive review of the R & D Program during FY 2001-02 documented the need for a subprogram with emphasis on the arts, social sciences, and humanities. This new subprogram, modeled after the internationally famous Guggenheim Foundation Program, is being inaugurated at a funding level of $500,000 in the current fiscal year (FY 2004-05). The funding level for this subprogram, now named the Awards to Louisiana Artists and Scholars (ATLAS) subprogram, will remain at $500,000 for FY 2005-06.
A more detailed discussion of the R & D subprograms for which relevant historical data exists appears below.

5.4.1 Research Competitiveness Subprogram (RCS)

The RCS is a stimulus program directed only toward those researchers who are at the threshold of becoming competitive in the Federal R & D marketplace. It is designed to assist these researchers to overcome the barriers that have prevented them from competing successfully at the national level for R & D funds. RCS is also directed only to those researchers who clearly show strong potential for enhancing their competitive status within the time span of a Board of Regents Support Fund grant. In every year since the subprogram’s inception, far more Louisiana university researchers who fit this funding profile have submitted quality research proposals to RCS than the Board has been able to support and encourage with funding.

Disciplines eligible to compete for basic research funds in the RCS are restricted to the sciences and engineering (as defined by the National Science Foundation), agriculture, and health and medical sciences. Most disciplines are eligible on a staggered, two years on-two years off basis; however, three disciplines which are accorded the highest priority for economic development (biological, computer/information, and earth/environmental sciences) are targeted for funding annually. To determine the eligibility of specific disciplines in the RCS for FY 2005-06 see Chart III.

CHART III

ELIGIBILITY OF DISCIPLINES* IN THE RESEARCH COMPETITIVENESS SUBPROGRAM

GROUP I - ELIGIBLE EVERY YEAR

- Biological Sciences
- Computer and Information Sciences
- Earth/Environmental Sciences


- Agricultural Sciences
- Engineering A (Chemical, Civil, Electrical, etc.)
- Mathematics
- Physics/Astronomy
- Social Sciences

GROUP III - ELIGIBLE IN FY 2000-01, 2001-02, 2004-05, 2005-06

- Chemistry
- Health and Medical Sciences
- Engineering B (Industrial, Materials, Mechanical, etc.)

*The listing of those sub-disciplines which are included in these larger groupings is in Attachment III.
5.4.2 Industrial Ties Research Subprogram (ITRS)

The principal goal of the ITRS is to fund research proposals that have significant near-term potential for contributing to the development and diversification of the Louisiana economy. Accordingly, all proposals and funded projects should demonstrate strong interest from and continued involvement by the private sector and/or non-state public agencies. Because the ITRS also functions as a stimulus subprogram, funded projects should either (a) bring about significant near-term federal or private-sector funding of research with commercial applications or (b) enhance or establish a Louisiana business or industry that will attract significant external revenues to the State.

To ensure that no opportunities with the potential to promote economic development and diversification would be overlooked, the Board has, since 1993, opened competition in the ITRS to proposals from any and all research areas. Further, the Board has attempted to encourage university/industry initiatives through cooperation with the Governor's Economic Development Cabinet and with related entities such as the Louisiana Department of Economic Development.

5.4.3, 5.4.4, 5.4.5 SBIR/STTR/Phase Zero Subprogram, Postdoctoral Research Associates Subprogram, Awards to Louisiana Artists and Scholars (ATLAS) Subprogram (respectively)

As indicated in section 5.4 above, each of these subprograms is in its first year of operation during FY 2004-05. Accordingly, no additional data relative to these subprograms is yet available.

5.4.6 Summary of FY 2005-06 Research and Development Expenditures

| Prior Commitments (RCS and ITRS only) | $3,600,000 |
| New Awards - RCS | $1,500,000 |
| ITRS | $650,000 |
| SBIR/STTR/Phase Zero | $300,000 |
| Postdoctoral Research Associates | $600,000 |
| ATLAS | $500,000 |
| **R & D PROGRAM TOTAL** | **$7,150,000** |

5.5 ENHANCEMENT OF THE QUALITY OF DEPARTMENTS OR UNITS - $18,371,181

NOTE: Matching commitments for all Federal Matching Grants Program proposals for which Federal approval has not been received as the date of submission of the affected Plan and Budget will be accommodated from the Enhancement Program. The Board has elected to operate in this manner because of (a) the uncertainty of a proposal's potential success in the national competition for Federal funds, (b) the Board's policy that any unexpended money in the Chairs, Graduate Fellows, and/or R&D program components annually revert to Traditional Enhancement for new awards in that component, (c) the difficulty and uncertainty surrounding moving Board of Regents Support Fund money from one Board of Regents Support Fund Program component budget to another, once budgeted in the prior year's appropriation process, and (d) the fact that all projects of this nature contain elements, in varying degrees, that enhance academic departments and units at colleges and universities.
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After weighing interrelations among the four components of the Support Fund, the Board has concluded that enhancement of the instructional and research infrastructure of departments and units remains a fundamental need, essential to accomplishing the goals of the other three Program components. For this reason, the Board shall dedicate $18,371,181 to the Enhancement Program in FY 2005-06. Thus, approximately 57% of the total funds available for awards in FY 2005-06 ($32,404,181) have been dedicated to this component, reflecting the Board's strong commitment to the program under which the majority of the State's colleges and universities are most competitive and successful.

Approximately $2,193,280 of the total $18,371,181 budgeted for Enhancement awards in FY 2005-2006 will be required to honor prior commitments for multi-year projects. Of this amount, $300,000 has been budgeted for potential second-year commitments for two-year proposals to be approved in FY 2004-05 under the Traditional and/or Undergraduate Enhancement programs. Traditional and Undergraduate Enhancement proposals are currently undergoing competitive external review and the Board will make funding decisions about them in April or May of 2005. The remaining $1,893,280 has been promised as the State's matching commitments under three current jointly-funded Board of Regents Support Fund/Federal Matching Grants, including: (a) $400,000 for the second year of the DOE/EPSCoR project; (b) $493,280 for the second year of the NASA EPSCoR Renewal project; and (c) $1,000,000 for the third year of the NSF/EPSCoR New Research Infrastructure Improvement project.

An additional $700,000 has been earmarked for two prospective jointly-funded Board of Regents Support Fund/Federal Matching Grants to begin in FY 2005-06, including (a) $500,000 for the Louis Stokes Louisiana Alliance for Minority Participation (LS-LAMP) Phase III project (pending) and (b) $200,000 for the NASA LaSPACE renewal project (pending).*

After deducting these projected commitments for two-year enhancement projects and the commitments and projected commitments for Federal matching opportunities, $15,477,901 will be available for new enhancement projects submitted for funding consideration in FY 2005-06. Increased budgetary allocations to the Enhancement Programs are particularly important, because: (a) the Enhancement Programs build the infrastructure at universities which is critical to the success of the other three Support Fund programs; and (b) not only are the Enhancement Programs the ones in which all universities are eligible to compete, they are also the ones under which the majority of campuses most successfully compete. Significantly, 67.4% of the total funds available for new awards will be dedicated to the Enhancement Program. (See Chart V, "Overview of FY 2005-06 Board of Regents Support Fund Budgetary Allocations by Program Component" in Section 6 of this Plan and Budget.)

5.5.1 Undergraduate Enhancement Program

Some colleges and universities without sizeable graduate programs have not been aggressive in submitting enhancement proposals. To continue to affirm the principle that improvement of infrastructure is essential at all academic levels, the Board shall dedicate $1.8 million of the $15,477,901 budgeted for new awards in the Enhancement Program to be used to improve education at the primarily undergraduate institutions.

Prerequisites for participation in the Undergraduate Enhancement Program are as follows: (1) the campus may not offer more than two doctoral programs; and (2) the department applying may not offer a doctoral degree. It should be noted that the maximum number of doctoral programs a campus may offer and still be eligible to

* A summary of the funded proposals referenced above may be found in Attachment I. Full discussions of the pending proposals may be found section 4.2.
participate in the Undergraduate Enhancement Program was lowered from ten in FY 1991-92 to two for FY 1992-1993 and beyond. The Board took this action to promote maximum participation by primarily undergraduate campuses in this Program.

Participation in the Undergraduate Enhancement Program does not preclude campuses from competing for other Enhancement money, and quality considerations continue to form the basis for all funding decisions. The same rotation of disciplines (Chart V) and types of projects eligible under the Traditional Enhancement Program are also eligible in the Undergraduate Enhancement Program, and the same regulations apply to proposals. Surplus amounts not awarded in the Undergraduate Program will be transferred to the Traditional Enhancement Program.

5.5.2 Endowed Professorships Program

This program was created by the Board and incorporated into the Enhancement Program in FY 1990-91, and funds were first allocated to endow professorships in FY 1991-92. The funding of an endowed professorship requires the college or university to raise at least $60,000 from external sources, to be matched by $40,000 from the Support Fund, thus establishing an endowed professorship valued at a minimum of $100,000.

Since its inception the Board has been concerned that too many eligible campuses were not reaping the benefits possible through the Endowed Professorships Program. One manifestation of this concern appeared in the FY 1995-96 Plan and Budget, when the Board first allowed campuses to use Federal funds as the matching source for one endowed professorship per year. The Board has also encouraged campuses to maximize efforts to attain matching funds for endowments from private philanthropic sources. In the Endowed Professorships Policy which emanated from the FY 1999-2000 comprehensive review of the program, the Board adopted the following strategy to broaden inclusiveness:

Beginning in FY 2001-02, the campuses listed below, which have received fewer than five professorships since inception of the program, will receive $60K from the Support Fund, to be matched with $40K in private funds. Once a campus has attained five professorships, it will no longer be eligible for funding under this ratio, and will revert to the $60K private:$40K Support Fund ratio.

1. Baton Rouge Community College*
2. Bossier Parish Community College
3. Grambling State University *
4. LSU-Eunice*
5. River Parishes Community College
6. South Louisiana Community College
7. Southern University-New Orleans
8. Southern University-Shreveport

The Board initially set aside $580,000 from the Reserve Fund to accommodate this special funding. The eight campuses listed above will require a total of 29 professorships to enable each to have five funded professorships. 29 x $20,000 (the difference in 60:40 versus 40:60) = $580,000. Additional money was set aside for this purpose to accommodate Louisiana Delta Community College and Southern University - Baton Rouge.

*Grambling State University and Baton Rouge Community College used the inverse ratio during FY 2001-02. Louisiana State University - Eunice used the inverse ratio during FY 2002-03. Grambling has now received a total of seven professorships and LSU-E has now received a total of five professorships; both are thus now ineligible for the inverse ratio. Louisiana Delta Community College and Southern University Law Center each received three professorships under the inverse ratio in FY 2003-04.
Law Center in FY 2003-04, and, effective in FY 2005-06, L. E. Fletcher Technical Community College and Sowela Technical Community College. This special provision will be reevaluated during FY 2005-06.

This year, as in previous years, the Board searched diligently to identify money in the Support Fund to continue this Program. Measured against the pressing financial needs of higher education, every component of the Support Fund is severely underfunded. Consequently, each dollar used to fund new programs means that fewer dollars are available for critical needs elsewhere. Nevertheless, due to the overriding imperative to strengthen faculty at colleges and universities statewide, the fact that this Program enhances and promotes recruitment and retention of outstanding faculty, and the ever-increasing success of campuses statewide in raising private matching funds, the Board of Regents shall fund the Endowed Professorships Program during FY 2005-06 at the level of $2,680,000. These funds will enable each of the 28 four-year campuses to endow two professorships, and each of the two-year campuses to endow one professorship, assuming that private matching monies can be secured and all regulations can be met. The money “saved” by reserving only one professorship per two-year institution will be used in future years in the manner described in the Section 5.5.3.

5.5.3 Enhancement Program for Two-Year Institutions

The Board’s belief that improvement of educational quality is essential at all academic levels and in all disciplines drove the establishment, beginning in FY 2002-03, of the Enhancement Program for Two-Year Institutions. The absence of federal calls in FY 2002-03 for grants requiring a state match enabled the Board to use the $1 million normally made available for federal matching opportunities to “jump-start” the two-year institutions, particularly those which have recently joined the Louisiana higher education system.

Campuses eligible for participation in this program are Baton Rouge Community College, Bossier Parish Community College, Delgado Community College, L. E. Fletcher Technical Community College, Louisiana Delta Community College, LSU-Eunice, Nunez Community College, River Parishes Community College, South Louisiana Community College, Southern University-Shreveport, and Sowela Technical Community College. Campuses participated during the spring of 2002 in the development of rigorous criteria which parallel, to the degree feasible, the criteria used in other BoRSF Enhancement components. A competitive peer-review process is used to prioritize successful proposals.

It is the Board’s belief that proceeding in this manner will provide not only an opportunity for the two-year institutions to participate meaningfully in the BoRSF, but also an invaluable training experience in the grant writing and capacity-building that all institutions of higher education must undertake. Cognizant that all or most of the funds devoted to this purpose in FY 2002-03 were likely to revert to the Federal Matching Grants Program in future years, the Board has attempted to provide a financial foundation for the continuance of the subprogram. To wit, the Board has modified its policy for the disbursement of funds for endowed professorships (described in Section 5.5.2 above) so that at least $440,000 per year will be available to sustain this program. Additional funds will continue to be taken from the Traditional Enhancement Program. One million dollars ($1,000,000) was allotted to this program in FY 2003-04, and the FY 2004-05 allocation for the Enhancement Program for Two-Year Institutions is $1,200,000. The $1,200,000 level will be maintained for FY 2005-06. Any unexpended funds will revert to the Traditional Enhancement Program.
5.5.4 Traditional Enhancement Program

Based on its continuing review of academic programs, coupled with evaluation of Board of Regents Support Fund projects, the Board anticipates that the acquisition of research and instructional equipment will remain indefinitely as the area of greatest need in the Enhancement Program. Indeed, during the first three years in which the Board of Regents Support Fund operated, instrumentation was the only type of request allowed in the Enhancement Program. Beginning in FY 1989-90, the Board invited the submission of other types of enhancement requests, due primarily to the eligibility of selected non-scientific and non-engineering disciplines for the first time. Some types of enhancement requests other than instrumentation include, for example, curriculum revision projects and colloquia to be presented by outstanding out-of-state scholars.

In an attempt to limit the commitment of future Board of Regents Support Fund money, in FY 1989-90 the Board further decided that equipment can only be purchased in the initial year of a project and that, for projects which envision multi-year funding, the following stipulations apply: (1) no project may be of more than two years in duration; (2) no project may request more than $50,000 in the second year; and (3) a limit of $1 million will be placed on the total of all second-year commitments in the Enhancement Program. This year, the Board decided to continue to allow the submission of Enhancement requests other than for instrumentation, with the same stipulations as adopted previously.

Thus, excluding the $300,000 set aside to accommodate previous commitments for multi-year Traditional and/or Undergraduate Enhancement projects and the $2,593,280 in prior or anticipated commitments for the State's required match in enhancement-type projects that are funded through the Federal grants referenced previously, and after deducting the $1.8 million committed for new projects in the Undergraduate Enhancement Program, the $2.68 million committed for Endowed Professorships, and the $1.2 million committed for the Enhancement for Two-Year Institutions, $8,097,901 remains for new projects submitted in the Traditional Enhancement Program in FY 2005-06. This amount would increase only if allocated money is not expended in one of the other Support Fund programs, or if one or more of the Federal Matching Grants opportunities described in section 4.2 is not funded.

In keeping with the conceptual framework to use Support Fund money to enhance all areas of higher education, all disciplines are eligible to compete in the Traditional Enhancement Program on a rotating basis as set forth in the Strategic Plan. At the request of the Blue Ribbon Commission on Teacher Quality, beginning in FY 2001-02 and continuing until at least FY 2005-06, “Teacher Education” will be eligible each year in the Enhancement competition. To determine the eligibility of specific disciplines for FY 2005-06, see Chart IV.
ELIGIBILITY OF DISCIPLINES* IN THE TRADITIONAL AND UNDERGRADUATE ENHANCEMENT PROGRAMS

GROUP I - ELIGIBLE IN FY 1999-2000, 2002-03, 2005-06

- Biological Sciences
- Computer and Information Sciences
- Engineering B (Industrial, Materials, Mechanical, etc.)
- Humanities
- Social Sciences

GROUP II - ELIGIBLE IN FY 2000-01, 2003-04

- Agricultural Sciences
- Arts
- Earth/Environmental Sciences
- Engineering A (Chemical, Civil, Electrical, etc.)
- Health and Medical Sciences

GROUP III - ELIGIBLE IN FY 2001-02, 2004-05

- Business
- Chemistry
- Mathematics
- Physics/Astronomy

GROUP IV - ELIGIBLE EVERY YEAR

- Education (Emphasis on redesign of teacher preparation programs)**

*See the attached listing of those sub-disciplines which are included in these larger groupings in Attachment III.
**Beginning in FY 2005-06, the focus of emphasis will change to fund higher education institutions who will assist K-12 schools meet or exceed standards of the Louisiana Department of Education.

5.5.5 New Enhancement Initiatives - (1) Restructuring of the Endowed Professorships Program; (2) Needs-Based Scholarship Aid for Deserving Undergraduate Students

The revised estimate from the Revenue Estimating Conference indicating that approximately $31.45 million will be available for expenditure in FY 2005-06 has the effect of freeing up about $1.7 million for two identified pressing needs in the higher education community.
Restructuring the Endowed Professorships Program

The FY 1999-2000 Comprehensive Review of the Endowed Professorships Program resulted in a recommendation from consultants that consideration be given to the establishment of "tiered professorships." The rationale was that existing professorships funded at the $100,000 level were of relatively little use to research-oriented institutions. Since most of these professorships in today's market conditions enjoy a useable yield of less than $2,500 per year, the consultants questioned the efficacy of continuing awards at this level. They suggested instead that professorships at research-oriented institutions should be funded at a minimum level ranging from $250,000 to $500,000. This would result in a far more significant yield for annual expenditures relative to each professorship and would also make the BoRSF's endowed professorships much more consistent with respective campus missions and the national academic community's perception of what an endowed professorship at a research-oriented institution actually is.

At the time this recommendation was promulgated there were no funds available to implement it without eroding funds available to other vital program components. The Board now plans to study this matter in detail and devote a portion of the $1.7 million anticipated to be available as a result of the Revenue Estimating Conference action to piloting the concept of "tiered professorships." Professorships at the $100,000 level would still be available to the two-year institutions and to most of the four-year institutions as well.

Needs-Based Scholarship Aid for Deserving Undergraduate Students

The State faces a well-documented impending crisis in terms of educating its future workforce. According to statistics provided by the National Center for Higher Education Management Systems (NCHEMS), for every 100 students entering the ninth grade this fall only about 56 will graduate from high school four years hence. Only 33 will attend college, and only 22 will receive a baccalaureate degree within six years of college entry. Research indicates that the massive "pipeline leakage" is due primarily to socioeconomic factors. The Board plans to pursue the development of a pilot merit- and needs-based program that would provide assistance to worthy students for the purpose of acquiring a college education. The scholarship initiative would solicit private donations on a matching funds basis, and may be established as an endowment program.

Many worthy Louisiana students are now effectively denied this opportunity either because the assistance provided under the TOPS program is not sufficient to make a college education affordable or because they approach but fall short of satisfying all of the requirements necessary to qualify for the TOPS program.

The Board will establish a pilot initiative in close collaboration with the prospective 2005-11 LA GEAR UP proposal which will be presented to the U.S. Department of Education (USDE) during April 2005. Strong consideration will be given to limiting recipients of aid in the pilot stage to graduates of LA GEAR UP schools who would be first-generation college attendees. If the USDE does not fund the prospective proposal, the Board will choose an alternative approach to establish the pilot program. Intensive study will be undertaken during the following months regarding the interface among TOPS, Pell Grants, and the projected pilot program.
5.5.6 SUMMARY OF FY 2005-06 ENHANCEMENT EXPENDITURES

<table>
<thead>
<tr>
<th>Prior Commitments -</th>
<th>$ 300,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Matching Grants</td>
<td>$ 1,893,280</td>
</tr>
</tbody>
</table>

| New Awards - |
| Federal Matching Grants | $ 700,000 |
| Undergraduate | $ 1,800,000 |
| Endowed Professorships | $ 2,680,000 |
| Two-Year Institutions | $ 1,200,000 |
| Traditional | $ 8,097,901 |
| New Initiatives | $ 1,700,000 |

**ENHANCEMENT PROGRAM TOTAL**

$18,371,181

5.6 CONTINUATION OF THE LOUISIANA SYSTEMIC INITIATIVES PROGRAM (LaSIP)

The Louisiana Systemic Initiatives Program (LaSIP) first competed successfully for National Science Foundation (NSF) funding in 1991. At that time it received $10 million from NSF, matched by $5 million each from the Board of Regents and the Board of Elementary and Secondary Education (BESE). The project involves K-12 reforms which require leadership from colleges and universities, as well as revisions in teacher education programs. LaSIP was one of a select few statewide initiatives which received a five-year renewal in 1996. Federal support ended in FY 2000-01. From the beginning, NSF emphasized that Federal money would only be used to seed the project, with the major continuing financial commitment to emanate from state and/or private sources.

During its ten-year existence LaSIP was repeatedly cited by NSF as a model program. The project’s exemplary nature was a major contributing factor in the 1996 renewal. Further, LaSIP has achieved significant results statewide in the improvement of student scores on both criterion-referenced and norm-referenced tests. It has the potential to be a major resource for school districts throughout the State in achieving accountability goals.

Mindful that the federal funding stage for this project was drawing to a close, the Board determined that the educational reform impulse at once spearheaded and buttressed by LaSIP shall not die. Accordingly, the Board committed $500,000 per year for five years, beginning in FY 2001-02, to continue LaSIP activities. The money is to come from the Reserve Fund, and is contingent upon the provision of a like sum annually from BESE and supplemental funding from the Legislature.

5.7 ADMINISTRATIVE EXPENSES - $800,000

Act 675 of 1989 established the following restrictions with respect to the amount of Support Funds money that may be used to administer the Board of Regents Support Fund Programs:

No more than 3% of the annual total amount appropriated to each board or eight hundred thousand dollars, whichever is smaller, shall be appropriated for such purposes to each board, subject to a thorough review with the goal of limiting such costs to those necessary and proper...
This legislation was modified by Act 698 of 2001, which specifies that:

Costs attributable to the Board of Regents for use of external peer-review consultants for purposes of review, evaluation, and assessment of program proposals are recognized as costs appropriately borne by the respective Support Fund programs and shall be paid from the category of expenditure related to the program for which the review, evaluation, and assessment applies.

Accordingly, each program component whose expenditures are itemized in sections 5.3 through 5.5 of this Plan and Budget will incur expenditures for the professional services of out-of-state consultants estimated as follows:

- Recruitment of Superior Graduate Students: $20,000
- Research and Development: $150,000
- Enhancement: $95,000

These amounts estimated above will be deducted from the total amounts available for expenditure in the respective program components. As discussed in Section 5.2 (p.13) above, estimated consultant costs for the Endowed Chairs for Eminent Scholars Program are added to the regular allocation in order to preserve the $400,000 units necessary for the endowments.
6. **OVERVIEW OF FY 2005-2006 BUDGETARY ALLOCATIONS BY PROGRAM COMPONENT**

The following chart provides an overview of FY 2005-2006 Board of Regents Support Fund budgetary allocations for new projects and previous commitments.

**CHART V**

| AN OVERVIEW OF BOARD OF REGENTS SUPPORT FUND BUDGETARY ALLOCATIONS BY PROGRAM COMPONENT, FY 2005-06 |
|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| TOTAL SUPPORT FUND ALLOCATION                  | ALLOCATION FOR NEW PROJECTS                      | ALLOCATION FOR PREVIOUS COMMITMENTS             |
| ENDOWED CHAIRS                                 | $ 3,220,000                                     | $ 3,220,000                                     | $ 0                                             |
| GRADUATE FELLOWS                               | $ 3,663,000                                     | $ 1,000,000*                                   | $ 3,663,000                                     |
| RESEARCH                                       | $ 7,150,000                                     | $ 3,550,000                                     | $ 3,600,000                                     |
| ENHANCEMENT**                                  | $ 18,371,181                                    | $16,177,901                                    | $ 2,193,280                                     |
| SUBTOTALS                                      | $32,404,181                                     |                                                 |                                                 |
| ADMIN. COSTS                                   | $ 800,000                                       |                                                 |                                                 |
| GRAND TOTAL                                    | $33,204,181                                     |                                                 |                                                 |

*Because allocations for the Graduate Fellows Program must be determined two years in advance of when students first arrive on campus, the FY 2005-2006 allocation for new graduate fellowships was determined in FY 2003-04 and set forth for the first time in the FY 2004-05 Plan and Budget. Thus, this allocation for new projects must come from the FY 2006-07 budget and has not been included in the subtotal and grand total figures in this chart. See Section 5.3 for a detailed explanation of the timing of the allocation process for this Board of Regents Support Fund Program component.

**Enhancement figures include funds used for Federal Matching Grants opportunities.
ATTACHMENT I

FUNDED PROPOSALS: JOINT FEDERAL/STATE PROGRAMS WITH STATEWIDE IMPACT
<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
<th>Participating Institution(s)</th>
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</thead>
<tbody>
<tr>
<td>3 years</td>
<td>FY1989-90 - FY1992-93</td>
<td>STI-8820219</td>
<td>NSF</td>
<td>NSF/LaSER: The Louisiana EPSCoR Program</td>
<td>$1,945,312</td>
<td>$3,374,355</td>
<td>A significant number statewide; grant funds awarded on a competitive basis.</td>
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<tr>
<td>3 years</td>
<td>FY1991-92 - FY1994-95</td>
<td>EHR-9108765</td>
<td>NSF</td>
<td>NSF LaSER Advanced Development Proposal (ADP)</td>
<td>$3,700,000</td>
<td>$4,800,000</td>
<td>A significant number statewide, organized into research clusters; grant funds awarded on a competitive basis.</td>
</tr>
<tr>
<td>5 years</td>
<td>FY1991-92 - FY1995-96</td>
<td>TPE-9150043</td>
<td>NSF</td>
<td>Louisiana Systemic Initiatives Program (LaSIP) in Math and Science Education</td>
<td>$10,000,000 ($5 million each from Regents and BESE)</td>
<td>$10,000,000</td>
<td>A significant number statewide; grant funds awarded on a competitive basis.</td>
</tr>
<tr>
<td>4 years</td>
<td>FY1991-92 - FY1995-96</td>
<td>NGT-40039</td>
<td>NASA</td>
<td>NASA Training Grant (LaSPACE)</td>
<td>$600,000</td>
<td>$500,000</td>
<td>A consortium of sixteen campuses; grant funds awarded on a competitive basis.</td>
</tr>
<tr>
<td>5 years</td>
<td>FY1992-93 - FY1996-97</td>
<td>DUE-9255761</td>
<td>NSF</td>
<td>Louisiana Collaborative for Excellence in the Preparation of Teachers (LaCEPT) Program</td>
<td>$4,000,000</td>
<td>$2,500,000</td>
<td>Centenary, Grambling, LSU-Br, LSU-S, LA Tech, Loyola, McNeese, Nicholls, ULM, NSU, SLU, SUBR, SUNO, ULL, UNO, Xavier</td>
</tr>
</tbody>
</table>

**Description/Purpose:**
1) To increase the competitiveness of Louisiana scientists and engineers in the Federal R & D marketplace,
2) To effect permanent improvements in the quality of science and engineering in Louisiana,
3) To develop human resources in Louisiana in the sciences and in engineering,
4) To ensure that improvements achieved continue with State and/or private support beyond the end of the grant period.

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2) To effect permanent improvements in the quality of science and engineering in Louisiana,
3) To develop human resources in Louisiana in the sciences and in engineering,
4) To ensure that improvements achieved continue with State and/or private support beyond the end of the grant period.

**Description/Purpose:**
To reform statewide – from kindergarten through college – methods of instruction and learning in mathematics, science, and engineering education.

**Description/Purpose:**
To develop the infrastructure for aerospace research to competitive levels, while improving the quality of aerospace research and education.

**Description/Purpose:**
To improve the quality of undergraduate teacher preparation programs in mathematics and science and to increase substantially the number of mathematics and science educators.
<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
<th>Participating Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 years</td>
<td>FY1993-94 -</td>
<td>DE-FC02-91ER75669</td>
<td>DOE</td>
<td>U.S. Department of Energy/EPSCoR Program</td>
<td>$1,039,590</td>
<td>$1,039,590</td>
<td>Gambling LA Tech, LSU-BR, Loyola, McNeese, SUBR, Tulane, ULL, ULM, UNO, Xavier</td>
</tr>
<tr>
<td>1 year</td>
<td>FY1993-94</td>
<td>DAAH04-93-G-0466</td>
<td>DOD</td>
<td>Defense Experimental Program to Stimulate Competitive Research (DEPSCoR) Planning Program</td>
<td>$50,000</td>
<td>$25,000</td>
<td>A significant number statewide</td>
</tr>
<tr>
<td>3 years</td>
<td>FY1994-95 -</td>
<td>Grant Numbers vary</td>
<td>DOD</td>
<td>1993 DEPSCoR Implementation Program</td>
<td>$2,400,000</td>
<td>$500,000</td>
<td>Dillard, Grambling, LSU-BR, LSUHSC-NO, SUBR, SUNO, Tulane, ULM, UNO, Xavier</td>
</tr>
<tr>
<td></td>
<td>FY1996-97</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 years</td>
<td>FY1994-95 -</td>
<td>NCCW-0059</td>
<td>NASA</td>
<td>NASA EPSCoR Program</td>
<td>$1,500,000</td>
<td>$1,500,000</td>
<td>Dillard, LA Tech, LSU-Br, LSU Ag, LUMCON, McNeese, SUBR, Tulane, UNO, Xavier</td>
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<td></td>
<td>FY1996-97</td>
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<td></td>
</tr>
<tr>
<td>5 years</td>
<td>FY1994-95 -</td>
<td>DUE-9255761</td>
<td>NSF</td>
<td>NSF Teaching Scholars Program</td>
<td>$500,000</td>
<td>$250,000</td>
<td>Centenary, LA Tech, Loyola, Nicholls, SLU, SUBR, SUNO, ULL, ULM, UNO, Xavier</td>
</tr>
<tr>
<td></td>
<td>FY1998-99</td>
<td>(Supplement)</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Description/Purpose:** To develop the infrastructure for energy and energy-related research in Louisiana, while improving the quality of energy research and education in the State and encouraging human resource development in this area. This proposal was the result of a one-year $99,454 planning grant awarded to the Board by DOE.

**Description/Purpose:** To prepare a statewide plan for increasing the State's capacity to perform defense-related research and technology transfer.

**Description/Purpose:** To conduct research and educate scientists and engineers in Louisiana in areas important to national defense.

**Description/Purpose:** 1) To improve the infrastructure for aerospace-related research and education in Louisiana, and increase the State's capability to perform federally-funded aerospace research; and 2) to support three multi-institutional research cluster projects.

**Description/Purpose:** To increase the number of minority teachers by providing a financial supplement to the Teaching Scholars program for Historically Black Colleges and Universities (HBCUs).
### FUNDED PROPOSALS: JOINT FEDERAL/STATE PROGRAMS WITH STATEWIDE IMPACT

**Page 3 of 9**

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 years</td>
<td>FY1995-96 - FY1997-98</td>
<td>OSR-9550481</td>
<td>NSF</td>
<td>NSF/EPSCoR LaSER Systemic Improvement Program (SI)</td>
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<td>Federal Award Amt.</td>
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<td>Support Fund Match</td>
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<td>Participating Institution(s)</td>
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</tbody>
</table>

**Description/Purpose:** 1) To stimulate systemic and sustainable improvements in the science and technology enterprise by creating centers of research excellence in the State, improving the infrastructure for scientific and engineering research and education in Louisiana, and enhancing human resources development in the sciences and engineering, thereby increasing the State's capability to perform federally-funded research of economic importance to Louisiana; and 2) to create real and meaningful research linkages between the State's Historically Black and Majority White Campuses and Universities through Joint Faculty Appointments. This proposal continued the efforts begun under the EPSCoR ADP award described above.

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
</tr>
</thead>
<tbody>
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<td>Federal Award Amt.</td>
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<td>Support Fund Match</td>
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<td>Participating Institution(s)</td>
</tr>
</tbody>
</table>

**Description/Purpose:** To promote research partnerships by establishing an inter-institutional audio/video (A/V) research communications network across Louisiana. The A/V network will enhance collaborative exchanges within and among the State’s EPSCoR and EPSCoR associated schools and to promote new research partnerships by eliminating geographical (distance/separation) barriers.

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 years</td>
<td>FY1997-98 - FY1999-00</td>
<td>EPS-9720147</td>
<td>NSF</td>
<td>LaSERnet II Backbone for Institutions of Higher Education in Louisiana</td>
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<td>Federal Award Amt.</td>
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<td>Support Fund Match</td>
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<td>Participating Institution(s)</td>
</tr>
</tbody>
</table>

**Description/Purpose:** To provide researchers in the State with a high-speed intra-state backbone for sharing resources and access to broad-band (Internet II) service and direct vBNS (very Broadband Network Service) connectivity.

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 years</td>
<td>FY1995-96 - FY1998-99</td>
<td>DE-FC02-91ER75669</td>
<td>DOE</td>
<td>U.S. Department of Energy/EPSCoR Program Renewal</td>
</tr>
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<td>Support Fund Match</td>
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<td>Participating Institution(s)</td>
</tr>
</tbody>
</table>

**Description/Purpose:** 1) To increase research competitiveness and capabilities of Louisiana scientists and engineers in areas of importance to the State and the U.S. Department of Energy; 2) to educate and recruit individuals, especially minorities and women, to work in these areas in Louisiana; 3) to provide new technologies that lead to economic development in the State; and 4) to support three multi-institutional research cluster projects.
## FUNDED PROPOSALS: JOINT FEDERAL/STATE PROGRAMS WITH STATEWIDE IMPACT

### Table of Proposals

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
<th>Participating Institution(s)</th>
</tr>
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<tbody>
<tr>
<td>5 years</td>
<td>FY1995-96 – FY1999-00</td>
<td>HRD-9550765</td>
<td>NSF</td>
<td>Louis Stokes Louisiana Alliance for Minority Participation (LS-LAMP) Program</td>
<td>$5,944,914</td>
<td>$2,249,280</td>
<td>Dillard, Grambling, LUMCON, LSU-BR, McNeese, Nunez, SUBR, SUNO, SUSBO, Tulane, ULL, UNO</td>
</tr>
</tbody>
</table>

### Description/Purpose:
To increase the number of underrepresented minorities receiving B.S. degrees in science, engineering, and mathematics in Louisiana from the baseline rate of 610 annually to an annual rate of 1,110.

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
<th>Participating Institution(s)</th>
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</thead>
<tbody>
<tr>
<td>4 years</td>
<td>FY1996-97 – FY1999-00</td>
<td>NGT-40039</td>
<td>NASA</td>
<td>NASA LaSPACE Renewal Program</td>
<td>$600,000</td>
<td>$400,000 (NASA and BOR portions awarded directly to LSU)</td>
<td>A consortium of sixteen campuses; grant funds awarded on a competitive basis.</td>
</tr>
</tbody>
</table>

### Description/Purpose:
To continue the development of the infrastructure for aerospace research to competitive levels, while improving the quality of aerospace research and education.

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
<th>Participating Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 years</td>
<td>FY1996-97 – FY2000-01</td>
<td>ESR-9634088</td>
<td>NSF</td>
<td>Louisiana Systemic Initiatives Program (LaSIP) Renewal in Math and Science Education</td>
<td>$7,000,000</td>
<td>$10,000,000 ($5 million each from Regents and BESE)</td>
<td>A significant number statewide; grant funds awarded on a competitive basis.</td>
</tr>
</tbody>
</table>

### Description/Purpose:
To continue the education reform efforts begun under the original LaSIP program.

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Grant Numbers</th>
<th>Federal Agency</th>
<th>Title</th>
<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
<th>Participating Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 years</td>
<td>FY1996-97 – FY1998-99</td>
<td>vary</td>
<td>DOD</td>
<td>1995 DEPSCoR Implementation Program</td>
<td>$2,350,303</td>
<td>$1,500,000</td>
<td>LSU-BR, LSUHSC-NO, SLU, Tulane</td>
</tr>
</tbody>
</table>

### Description/Purpose:
To continue previous efforts to conduct research and educate scientists and engineers in Louisiana in areas important to national defense, thus improving the State’s research infrastructure.

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
<th>Participating Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 years</td>
<td>FY1997-98 – FY1998-99</td>
<td>NCC5-167</td>
<td>NASA</td>
<td>NASA EPSCoR Program Renewal</td>
<td>$1,000,000</td>
<td>$1,000,000</td>
<td>Dillard, LA Tech, LSU-BR, LSU Ag, LUMCON, McNeese, SUBR, Tulane, UNO, Xavier</td>
</tr>
</tbody>
</table>

### Description/Purpose:
A renewal program to 1) continue to improve the infrastructure for aerospace-related research and education in Louisiana, and increase the State’s capability to perform federally-funded aerospace research; and 2) to continue the support of three multi-institutional research cluster projects.
###FUNDED PROPOSALS: JOINT FEDERAL/STATE PROGRAMS WITH STATEWIDE IMPACT

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<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
<th>Title</th>
<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
<th>Participating Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 years</td>
<td>FY 1997-98 – FY2001-02</td>
<td>ESR-9700041</td>
<td>NSF</td>
<td>Delta Rural Systemic Initiative in Science, Mathematics, and Technology</td>
<td>$10,000,000 ($2.46 million is Louisiana’s share)</td>
<td>$2,000,000</td>
<td>A significant number; all campuses are eligible to compete.</td>
</tr>
</tbody>
</table>

**Description/Purpose:** To complement and supplement current statewide math and science education reform initiatives such as LaSIP and LaCEPT. A tri-state effort involving Louisiana, Mississippi, and Arkansas, it concentrates on professional development programs for teachers, pre-service enhancement programs for educators, leadership institutes for administrators, and acquisition of supportive hardware and software in an effort to impact 64 counties and/or parishes (22 school districts in 21 parishes within Louisiana) that are rural and have major economic problems.

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
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<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
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</thead>
<tbody>
<tr>
<td>3 years</td>
<td>FY 1998-99 – FY2000-01</td>
<td>DUE-9816194</td>
<td>NSF</td>
<td>Louisiana Collaborative for Excellence in the Preparation of Teachers (LaCEPT) Program Supplemental Award</td>
<td>$600,000</td>
<td>$300,000</td>
<td>Gambling, LSU-BR, LSU-S, LA Tech, Loyola, Nicholls, NSU, SLCC, SLU, SUBR, SUNO, ULL ULM, UNO, Xavier</td>
</tr>
</tbody>
</table>

**Description/Purpose:** To improve the quality of undergraduate teacher preparation programs in mathematics and science and to increase substantially the number of mathematics and science educators; to evaluate the effectiveness of the initial five-year award (FYs 1993-98).

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
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<th>Support Fund Match</th>
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</tr>
</thead>
<tbody>
<tr>
<td>3 years</td>
<td>FY 1997-98 – FY1999-00</td>
<td>Grant numbers vary</td>
<td>DOD</td>
<td>1997 DEPScOR Implementation Program</td>
<td>$1,770,504</td>
<td>$750,000</td>
<td>LSU-BR, Tulane, ULL</td>
</tr>
</tbody>
</table>

**Description/Purpose:** To continue previous efforts to conduct research and educate scientists and engineers in Louisiana in areas important to national defense, thus improving the State’s research infrastructure.

<table>
<thead>
<tr>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>3 years</td>
<td>FY 1998-99 – FY2000-01</td>
<td>EPS-9720652</td>
<td>NSF</td>
<td>NSF/EPScOR New Cooperative Agreement (NCA)</td>
<td>$3,000,000</td>
<td>$3,000,000</td>
<td>A significant number statewide: grant funds awarded on a competitive basis.</td>
</tr>
</tbody>
</table>

**Description/Purpose:** 1) To enhance the competitiveness of science and engineering (S&E) faculty of the State’s higher education institutions by making them more competitive in gaining national research and development support, engaging them in science and technology transfer activities with business and industry, and helping them educate effectively large numbers of S&E students at both graduate and undergraduate levels; 2) to create real and meaningful linkages between the State’s HBCUs and MWCUs through the Joint Faculty Appointments Program; and 3) to foster economic development in the state by facilitating, through various initiatives, interaction between business & industry, universities, and state government. This proposal continued the efforts begun under the EPScOR ADP and SI awards previously described.
<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
<th>Federal Agency</th>
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<th>Support Fund Match</th>
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</thead>
<tbody>
<tr>
<td>3 years</td>
<td>FY 1999-00 – FY 2001-02</td>
<td>Grant numbers vary</td>
<td>DOD</td>
<td>1999 DEPSCoR Implementation Program</td>
<td>$1,459,473</td>
<td>$189,798</td>
<td>LSU-BR, LA Tech, UNO</td>
</tr>
</tbody>
</table>

**Description/Purpose:** As in past DEPSCoR awards, the individual research projects funded through this award enhance the statewide research infrastructure improvement efforts.

| 2 years  | FY 1999-00 – FY 2000-01 | 60NANB9D0005 | Dept. of Commerce | Experimental Program to Stimulate Competitive Technology (EPScO) | $250,000 | $300,000 | A significant number statewide |

**Description/Purpose:** To develop and implement regional and statewide strategies to accelerate commercialization of university-based technologies, thus contributing to the economic development of the State.

| 1 year   | FY 1999-00 | NCC5-167 | NASA | NASA EPScOr Program Continuation Funding | $400,000 | $250,000 | Dillard, LA Tech, LSU- BR, LSU Ag, LUMCON, McNeese, SUBR, Tulane, UNO, Xavier |

**Description/Purpose:** A renewal program to 1) continue to improve the infrastructure for aerospace-related research and education in Louisiana, and increase the State's capability to perform federally-funded aerospace research; and 2) to continue the support of three multi-institutional research cluster projects. This award is the sixth-year continuation of the NASA EPScOr Program and NASA EPScOr Program Renewal previously described.

| 1 year   | FY 1999-00 | NCC5-393 | NASA | NASA EPScOr Preparation Grant Program | $225,000 | $100,000 | A significant number statewide. Funds are competitively awarded. |

**Description/Purpose:** To allow Louisiana researchers to initiate contacts and promote collaborative research programs with NASA Centers and Enterprises, and begin research activities in areas of strategic importance to NASA in preparation for submission of a statewide proposal to NASA EPScOr in 2001.

| 5 years  | FY 2000-01 – FY 2004-05 | NGT5-40115 | NASA | NASA LaSPACE Continuation | $1,281,250 | $1,000,000 | A consortium composed of sixteen campuses; grant funds are awarded on a competitive basis. |

**Description/Purpose:** This award continues the efforts begun under the original LaSPACE program and the LaSPACE renewal described previously.
## FUNDED PROPOSALS: JOINT FEDERAL/STATE PROGRAMS WITH STATEWIDE IMPACT

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<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2 years</td>
<td>FY1999-00 – FY2000-01</td>
<td>R-82778501-0</td>
<td>EPA</td>
<td>EPA EPSCoR 2000 Program – Coastal Monitoring</td>
<td>$483,939</td>
<td>$500,000</td>
<td>LUMCON, Tulane (all data obtained will be made available to scientists and students throughout the state.)</td>
</tr>
<tr>
<td>5 years</td>
<td>FY2000-01 – FY2005-06</td>
<td>HRD-000272</td>
<td>NSF</td>
<td>Louis Stokes Louisiana Alliance for Minority Participation (LS-LAMP) Phase II</td>
<td>$5,000,000</td>
<td>$2,500,000</td>
<td>Dillard, Grambling, LUMCON, LSU-BR, McNeese, Nunez, SUBR, SUNO, SUSBO, Tulane, ULL, UNO</td>
</tr>
</tbody>
</table>

### Description/Purpose: To establish and maintain a series of instrument platforms by which university scientists can monitor environmental variables in coastal Louisiana for research and educational needs, thus increasing the State’s capability to compete for and perform federally-funded environmental research.

<table>
<thead>
<tr>
<th>Duration</th>
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<th>Federal Award Number</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1 year</td>
<td>FY2000-01</td>
<td>NCC5-393</td>
<td>NASA</td>
<td>NASA EPSCoR Preparation Grant Program Renewal</td>
<td>$225,000</td>
<td>$0</td>
<td>A significant number statewide. Funds are competitively awarded.</td>
</tr>
</tbody>
</table>

### Description/Purpose: To continue to increase the number of underrepresented minorities in Louisiana receiving B.S. degrees in science, engineering, and mathematics.

<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
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<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1 year</td>
<td>FY2000-01</td>
<td>NCC5-167</td>
<td>NASA</td>
<td>NASA EPSCoR Program Continuation Funding (year seven)</td>
<td>$400,000</td>
<td>$0</td>
<td>Dillard, LA Tech, LSU-BR, LSU Ag, LUMCON, McNeese, SUBR, Tulane, UNO, Xavier</td>
</tr>
</tbody>
</table>

### Description/Purpose: To continue the efforts described above for the NASA EPSCoR Preparation Grant.

<table>
<thead>
<tr>
<th>Duration</th>
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<th>Federal Award Number</th>
<th>Federal Agency</th>
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</thead>
<tbody>
<tr>
<td>2 years</td>
<td>FY2000-01 – FY2001-02</td>
<td>EPS-0083089</td>
<td>NSF</td>
<td>Video to the Desktop: A Louisiana Model</td>
<td>$494,450</td>
<td>$0</td>
<td>LA Tech, LSU-BR, LSU Ag, LSUHSC-NO, LSUHSC-S, NSU, SLU, SUBR, Tulane, ULL, ULM, UNO</td>
</tr>
</tbody>
</table>

### Description/Purpose: To promote research partnerships by establishing an inter-institutional H.323 research communications (videoconferencing) network, which will operate over existing Internet lines instead of over telephone lines, and allow desktop-to-desktop multimedia communications.
**Description/Purpose:** This award funds the “Micro/Nano Technologies for Advanced Physical, Chemical, and Biological Sensors” research consortium in addition to a variety of initiatives to enhance the competitiveness of science and engineering (S&E) faculty of the State’s higher education institutions. This proposal continues the efforts begun under the EPSCoR ADP, SI, and NCA awards previously described.

**Description/Purpose:** 1) To develop and strengthen long-term academic research enterprises that will make significant contributions to the strategic research and technology priorities of NASA and, in turn, to contribute to the overall research infrastructure, science and technology capabilities, higher education, and economic development of the State; and 2) to support three multi-institutional research projects.

**Description/Purpose:** To enhance Louisiana’s capability for understanding and predicting the effects of climate change on the state’s coastal ecosystems, thus increasing the State’s capability to compete for and perform federally-funded environmental research.
### FUNDED PROPOSALS: JOINT FEDERAL/STATE PROGRAMS WITH STATEWIDE IMPACT

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<table>
<thead>
<tr>
<th>Duration</th>
<th>Fiscal Years</th>
<th>Federal Award Number</th>
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<th>Federal Award Amt.</th>
<th>Support Fund Match</th>
<th>Participating Institution(s)</th>
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<tbody>
<tr>
<td>3 years</td>
<td>FY2003-04 -</td>
<td>EPS-0346411</td>
<td>NSF</td>
<td>Louisiana's Strategic Infrastructure Improvement (LSII)</td>
<td>$9,000,000</td>
<td>$3,000,000</td>
<td>A significant number statewide, including LSU-BR, LSUHSC-NO, SUBR, Tulane, ULL, ULM, UNO, Xavier. A portion of the grant funds will be awarded on a continuing, competitive basis.</td>
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<tr>
<td></td>
<td>FY2005-06</td>
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<tr>
<td>3 years</td>
<td>FY2004-05 -</td>
<td>DE-FG02-04ER46136</td>
<td>DOE</td>
<td>DOE EPSCoR Implementation 2004</td>
<td>$1,200,000</td>
<td>$1,200,000</td>
<td>ULL, LSU-BR, SUBR.</td>
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<tr>
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<td>FY2006-07</td>
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</table>

**Description/Purpose:** This award funds the "Center for Bio-Modular Multi-Scale Systems" in addition to a variety of initiatives to enhance the competitiveness of science and engineering (S&E) faculty of the State's higher education institutions. This proposal continues the efforts begun under the EPSCoR ADP, SI, NCA, and RII awards previously described.

**Description/Purpose:** A two-year renewal of the NASA EPSCoR 2000 Program to 1) To develop and strengthen long-term academic research enterprises that will make significant contributions to the strategic research and technology priorities of NASA and, in turn, to contribute to the overall research infrastructure, science and technology capabilities, higher education, and economic development of the State; and 2) to support multi-institutional research projects.

**Description/Purpose:** To develop the infrastructure for energy and energy-related research in Louisiana, while improving the quality of energy research and education in the State and encouraging human resource development in this area. This award funds the multi-institutional, multidisciplinary research project entitled "Ubiquitous Computing and Monitoring System (UCoMS) for Discovery and Management of Energy Resources."
ATTACHMENT II

RESULTS FROM SELECTED PROJECTS
RESULTS FROM SELECTED PROJECTS

As a result of scientific data generated by LSU Agricultural Center researchers, a new, quality herbal dietary supplement – Eucommia bark extract - is forthcoming that will allow people with high blood pressure to maintain a healthy blood pressure range. Ancient herbs, despite a long history of use, are not assured to be preventative or therapeutic agents until their chemical compositions are characterized. This project, funded by a BoRSF Research and Development grant and one of the few of its kind in the country, corrected the quality flaws often seen in herbal dietary supplements by developing a standardization protocol that uses an effective chemical marker and fingerprint as a future manufacturing template. This protocol guarantees a reliable quality extract and, in turn, a repeatable biomedical effect that brings ancient herbs a step closer to entry into the mainstream healthcare system. When the project researchers administered the standardized Eucommia bark to hypertensive rats, it caused their blood pressure to drop significantly without any side effects. This hypertensive effect was confirmed in a human clinical trial in which no adverse effect has been observed. {LEQSF(2000-02)-RD-B-01; PI, Zhijun Liu}

A team of Northwestern State University researchers funded by a BoRSF Research and Development grant are working to improve the productivity of a start-up plant in Natchitoches. As would be expected, the start-up plant is experiencing growing pains, in this case scrap rates higher and productivity rates lower than desired. Researchers have developed a computerized control program using visual entry system software that addresses these issues. The projected gain of manufacturing employees if the plant reaches full employment will positively impact both Natchitoches Parish and the State. The program may also be used as a model for other plants in the company and worldwide. {LEQSF (2002-05)-RD-B-08; PI, Pamela Miller}

LSU Health Sciences Center researchers in New Orleans are developing new therapies for AIDS and other infectious diseases by targeting host processes hijacked by the virus rather than attacking the virus directly. Using a synthetic peptide drug developed by one of the researchers, they have demonstrated that its use is highly active against the AIDS virus in laboratory experiments. Funded by a BoRSF Research and Development grant, these studies are being performed in collaboration with the University of New Orleans, New Orleans Children's Hospital and a small biotechnology company. This project promotes the development of a biotechnology industry based in New Orleans, using its strong university and medical communities as a basis for development. {LEQSF (2002-05)-RD-B-06; PI, Seth Pincus}

Thanks to a BoRSF Enhancement grant, Xavier University chemistry students now have access to the advanced techniques of Nuclear Magnetic Resonance (NMR) spectroscopy and Chromatography/Mass Spectrometry (GC/MS). Both have been integrated into the undergraduate experience, including advanced lab classes, undergraduate research projects and lower-division lab courses. Exposure to the techniques used on these two major state-of-the-art instruments is required for Xavier students to receive a nationally accredited degree. The training also enables the students to be professionally competitive with students from other schools and enables Xavier to provide in-house, high quality training and educational experiences. {LEQSF (2002-03)-ENH-TR-96; PI, R. Bryan Klassen}
While e-business continues to explode for firms with real operational presence, current e-solutions are too expensive and complex for many of Louisiana’s small-to-medium sized businesses to implement. Based on the results of a survey that they conducted to measure the current capabilities of Louisiana businesses, researchers at the University of Louisiana at Lafayette’s Center for Business and Information Technologies designed the Extended Enterprise/Supply Chain Management Framework and a suite of Collaborative E-Business Management (CEM) software. The technologies have applicability to all Louisiana businesses, both large and small, that engage in transactions for products and services. The investigators have held seminars and workshops to acquaint Louisiana businesses with low-cost, Internet-based supply chain management technologies and solutions that will help them expand their global visibility. Additionally, the results of a feasibility study for the Defense Logistics Agency of the Department of Defense, which awarded the researchers two grants totaling $345,000, indicated an anticipated net benefit of over $17.3 million dollars, a return on investment of over 8%, and a 53% reduction in stock-outs. The Center’s Industrial Advisory Board includes representatives from the following out-of-state companies: Sara Lee, Daimler Chrysler, Johnson & Johnson Co., Proctor and Gamble, Software Consultants and The Boeing Company. Within two years of the $100,000 BoRSF Research and Development grant, the return was already a healthy $935,640 in federal/external funds. (LEQSF(2002-04)-RD-B-12; PI, Ramesh Kolluru)

A BoRSF Research and Development grant was awarded to Nicholls State University researchers investigating a deadly parasite that is the primary cause of mass mortalities in the eastern oyster Crassostrea virginica along the Gulf of Mexico and Atlantic coasts. The investigators have developed a fluorescent microplate assay that will greatly facilitate the determination of the nature and specificity of host-parasite recognition. The fluorescent plate reader assay will also be used to study parasite infectivity for other host tissues. The work was presented at an international conference and a manuscript accepted for publication by the Journal of Parasitology. (LEQSF (2001-04)-RD-A-24; PI, Julie Gauthier)

In May 2004, the National Science Foundation awarded the Louisiana Experimental Program to Stimulate Competitive Research (EPSCoR) its second $9 million grant within three years. BoRSF matched the award with $3 million. The first award went to a consortium of nine Louisiana universities collaborating on micro- and nano-scale science and technology research. The centerpiece of the second grant is the establishment of a nationally prominent Center for Biological Modular Microsystems, involving an interdisciplinary, multi-institutional research team with expertise in microsystems engineering, materials, chemistry and biological systems. This team is focusing on scientific challenges in the design and development of BioMicroElectroMechanical Systems (BIOMEMS).

A Tulane University Health Sciences Center research team has identified factors that may prove helpful in designing better therapies for individuals suffering from cryptococcal meningitis. The investigators, recipients of a BoRSF Research and Development grant, have also demonstrated that protective immune responses can be induced in a mouse model that extend the survival of mice with cryptococcal meningitis. Researchers anticipate that their work may lead to the development of immunotherapeutic therapies to more effectively treat cryptococcosis patients, especially those with AIDS, such that expensive antymycotic treatments will no longer be required for the lifetime of afflicted individuals. Data obtained from this study is being presented at national and international conferences as well as published in relevant scientific journals. It has also has opened additional avenues of research on other fungal pathogens, generated potential collaborations with scientists in Louisiana and other states and increased federal funding possibilities. (LEQSF (2000-03)-RD-A-37; PI, Kent Buchanan)
Thanks to a BoRSF Enhancement grant Louisiana Tech University has a new computer-enhanced English classroom and tutoring lab. It is providing students with access to word processing systems for composing, revising and editing in-class writing assignments, and facilitating learning through the use of multiple modes of visual and audio instruction and the development of technological skills. It has also improved the instructional capabilities for faculty. While research and writing are the primary skills developed in the lab, it also assists students in understanding research procedures, developing critical thinking skills, and organizing those thoughts into high quality written essays. In the first quarter in which it was open, 573 students—almost five percent of the university’s total enrollment—had already improved their technological skills in the areas of research, writing and communications.

{LEQSF (2003-04)-ENH-TR-46}

A BoRSF Enhancement grant for Tulane University’s A.B. Freeman School of Business to (1) design, install and test a trading room and train faculty and staff in its use; (2) use the trading room to enhance the energy finance curriculum and courses; and (3) develop and implement a new energy management courses also contributed to the establishment of the Entergy-Tulane Energy Institute. Entergy has committed $2.5 million to the institute over five years and an anonymous donor gave $167,957 for the project. The enhancements made possible by the trading room and revised curriculum will build the school’s strengths in an established area and provide a teaching and research laboratory comparable to those at other top business schools.

{LEQSF (2002-04)-ENH-TR-70}
ATTACHMENT III

TAXONOMY OF DISCIPLINES
TAXONOMY OF DISCIPLINES
USED IN THE
BOARD OF REGENTS SUPPORT FUND PROGRAMS

NATURAL SCIENCES - BIOLOGICAL

Agriculture
0101 Agricultural Economics
0102 Agricultural Production
0103 Agricultural Sciences
0104 Agronomy
0105 Animal Sciences
0106 Fishery Sciences
0107 Food Sciences
0108 Forestry and Related Sciences
0109 Horticulture
0110 Resource Management
0111 Parks and Recreation Management
0112 Plant Sciences
(Except Agronomy, see 0104)
0113 Renewable Natural Resources
0114 Soil Sciences
0115 Wildlife Management
0119 Agriculture - Other

Biological Sciences
0201 Anatomy
0202 Biochemistry/Biophysics
0203 Biology
0204 Biometry
0205 Botany
0206 Cell and Molecular Biology
0207 Ecology
0208 Embryology
0209 Entomology and Parasitology
0210 Genetics
0211 Marine Biology
0212 Microbiology
0213 Neurosciences
0214 Nutrition
0215 Pathology
0216 Pharmacology
0217 Physiology
0218 Radiobiology
0219 Toxicology
0220 Zoology
0299 Biological Sciences - Other

Health and Medical Sciences
0601 Allied Health
0602 Audiology and Speech Pathology
0603 Chiropractic
0604 Dental Sciences
0605 Environmental Health
0606 Epidemiology
0607 Health Science Administration
0608 Immunology
0609 Medical Sciences
0610 Nursing
0611 Optometry
0612 Osteopathic Medicine
0613 Pharmaceutical Sciences
0614 Podiatry
0615 Pre-Medicine
0616 Public Health
0617 Veterinary Science
0699 Health and Medical Sciences - Other

NATURAL SCIENCES - PHYSICAL

Chemistry
0301 Chemistry, General
0302 Analytical Chemistry
0303 Inorganic Chemistry
0304 Organic Chemistry
0305 Pharmaceutical Chemistry
0306 Physical Chemistry
0399 Chemistry - Other

Physics and Astronomy
0801 Astronomy
0802 Astrophysics
0803 Atomic/Molecular Physics
0804 Nuclear Physics
0805 Optics
0806 Planetary Science
0807 Solid State Physics
0899 Physics and Astronomy - Other
ATURAL SCIENCES - COMPUTATIONAL

Computer and Information Sciences
0401 Computer Programming
0402 Computer Sciences
0403 Data Processing
0404 Information Sciences
0405 Microcomputer Applications
0406 Systems Analysis
0499 Computer Sciences - Other

Mathematical Sciences
0701 Actuarial Sciences
0702 Applied Mathematics
0703 Mathematics
0704 Probability and Statistics
0799 Mathematical Sciences - Other

NATURAL SCIENCES - EARTH/ENVIRONMENTAL

Earth, Atmospheric, and Marine Sciences
0501 Atmospheric Sciences
0502 Environmental Sciences
0503 Geochmistry
0504 Geology
0505 Geophysics and Seismology
0506 Palentology
0507 Meteorology
0508 Oceanography
0599 Earth, Atmospheric, and Marine Sciences - Other
4401 Environmental Design
4405 Landscape Architecture

ENGINEERING - A (CONTINUED)

Engineering - Electrical and Electronics
1201 Computer Engineering
1202 Communications Engineering
1203 Electrical Engineering
1204 Electronics Engineering
1299 Electrical and Electronics Engineering - Other

ENGINEERING - B

Engineering - Industrial
1301 Industrial Engineering
1302 Operations Research
1399 Industrial Engineering - Other

Engineering - Materials
1401 Ceramic Engineering
1402 Materials Engineering
1403 Materials Science
1404 Metallurgical Engineering
1499 Materials Engineering - Other

Engineering - Mechanical
1501 Engineering Mechanics
1502 Mechanical Engineering
1599 Mechanical Engineering - Other

Engineering - Other
1601 Aerospace Engineering
1602 Agricultural Engineering
1603 Biomedical Engineering
1604 Engineering Physics
1605 Engineering Science
1606 Geological Engineering
1607 Mining Engineering
1608 Naval Architecture and Marine Engineering
1609 Nuclear Engineering
1610 Ocean Engineering
1611 Petroleum Engineering
1612 Systems Engineering
1613 Textile Engineering
1699 Engineering - Other
SOCIAL SCIENCES

Anthropology and Archaeology
1701 Anthropology
1702 Archaeology

Economics
1801 Economics
1802 Econometrics

Law (5102)

Political Science
1901 International Relations
1902 Political Science and Government
1903 Public Policy Studies
1999 Political Science - Other

Psychology
2001 Clinical Psychology
2002 Cognitive Psychology
2003 Community Psychology
2004 Comparative Psychology
2005 Counseling Psychology
2006 Developmental Psychology
2007 Experimental Psychology
2008 Industrial and Organizational Psychology
2009 Personality Psychology
2010 Physiological Psychology
2011 Psycholinguistics
2012 Psychometrics
2013 Psychopharmacology
2014 Quantitative Psychology
2015 Social Psychology
2009 Psychology - Other

Sociology and Social Work
2101 Demography
2102 Sociology
5001 Social Work

Social Sciences - Other
2201 Area Studies
2202 Criminal Justice/Criminology
2203 Geography
2204 Public Affairs and 4801 Public Administration
2205 Urban Studies and 4406 Urban Design
2209 Social Sciences - Other
4401 Architecture
4402 City and Regional Planning
4404 Interior Design
5101 Interdisciplinary Programs

SOCIAL SCIENCES (CONTINUED)

Communications
4501 Advertising
4502 Communications Research
4503 Journalism and Mass Communication
4504 Public Relations
4505 Radio, TV and Film
4506 Speech Communication
4599 Communications - Other

Home Economics
4601 Consumer Economics
4602 Family Relations
4699 Home Economics - Other

Library and Archival Sciences
4701 Library Science
4702 Archival Science

ARTS

Arts - History, Theory, and Criticism
2301 Art History and Criticism
2302 Music History, Musicology, and Theory
2399 Arts - History, Theory, and Criticism - Other

Arts - Performance and Studio
2401 Art
2402 Dance
2403 Drama/Theatre Arts
2404 Music
2405 Design
2406 Fine Arts
2499 Arts - Performance and Studio - Other

Arts - Other
2999A Arts - Other
5101A Interdisciplinary Programs

HUMANITIES

English Language and Literature
2501 English Language and Literature
2502 American Language and Literature
2503 Creative Writing
2599 English Language and Literature - Other
UMANITIES (CONTINUED)

Foreign Language and Literature
2601 Asiatic Languages
2602 Foreign Literature
2603 French
2604 Germanic Languages
2605 Italian
2606 Russian
2607 Semitic Languages
2608 Spanish
2699 Foreign Languages - Other

History
2701 American History
2702 European History
2703 History of Science
2799 History - Other

Philosophy
2801 All Philosophy Fields

Humanities - Other
2901 Classics
2902 Comparative Language and Literature
2903 Linguistics
2904 Religious Studies; 4901 Religion;
and 4902 Theology
2999H Humanities - Other
5101H Interdisciplinary Programs

EDUCATION

Education - Administration
3001 Educational Administration
3002 Educational Supervision

Education - Curriculum and Instruction
3101 Curriculum and Instruction

Education - Early Childhood
3201 Early Childhood Education

Education - Elementary
3301 Elementary Education
3302 Elementary-level Teaching Fields

EDUCATION (CONTINUED)

Education - Evaluation and Research
3401 Educational Statistics and Research
3402 Educational Testing Evaluation and Measurement
3403 Educational Psychology
3404 Elementary and Secondary Research
3405 Higher Education Research

Education - Higher
3501 Educational Policy
3502 Higher Education

Education - Secondary
3601 Secondary Education
3602 Secondary Level Teaching Fields

Education - Special
3701 Education of the Gifted
3702 Education of the Handicapped
3703 Education of Special Learning Disabilities
3704 Remedial Education
3799 Other Special Education Fields

Education - Student Counseling and Personnel Services
3801 Personnel Services
3802 Student Counseling

Education - Other
3901 Adult and Continuing Education
3902 Bilingual/Transcultural Education
3903 Educational Media
3904 Junior High/Middle School Education
3905 Pre-Elementary Education
3906 Social Foundations
3907 Teaching English as a Second Language/Foreign Language
3999 Other Education Fields
Accounting
4001 Accounting
4002 Taxation

Banking and Finance
4101 Commercial Banking
4102 Finance
4103 Investments and Securities

Business, Administration and Management
4201 Business Administration and Management
4202 Human Resource Development
4203 Institutional Management
4204 Labor/Industrial Relations
4205 Management Science
4206 Organizational Behavior
4207 Personnel Management
4299 Business Management - Other

Business - Other
4301 Business Economics
4302 International Business Management
4303 Management Information Systems
4304 Marketing and Distribution
4305 Marketing Management and Research
4399 Business Fields - Other