**Background Information**

At its meeting of February 28, 2012, the Board of Regents approved the attached format for the Campus STEM Research Priorities Report. Completion of this format is essential for Regents to implement the research component of the Board of Regents Master Plan ([http://www.regents.doa.louisiana.gov/assets/docs/Planning/MasterPlan-FINAL-2011_0901.pdf](http://www.regents.doa.louisiana.gov/assets/docs/Planning/MasterPlan-FINAL-2011_0901.pdf)). Accordingly, all public and independent campuses which house two or more STEM Ph.D. programs, or special purpose research institutions (see cover), must complete the Priorities Report to remain eligible for research and endowed chairs monies offered through the Board of Regents Support Fund. Campuses not included in these categories may voluntarily submit a Priorities Report for review.

The format for the Campus STEM Research Priorities Report reflects a consensus approach among research officers from affected campuses. Development of the format has been guided by the Foster Innovation through Research in Science and Technology in Louisiana (FIRST Louisiana) Plan ([http://web.laregents.org/program-evaluations/state-st-plan/](http://web.laregents.org/program-evaluations/state-st-plan/)), which the Regents adopted in January 2010. The FIRST Plan was developed concurrent to and in tandem with the Louisiana Economic Development’s Blue Ocean strategy, which aims to attract vital new markets not yet fully exploited by other states.

**Scope**

The campus-level reporting of research and economic development data will be aligned with metrics collected by the Association of University Technology Managers (AUTM), which provide insight into the economic development impacts of university-based research (See Attachment A, Reporting Elements). Further, Research Priorities reports will relate campus STEM goals, strategies, and investments to the FIRST Louisiana framework, particularly the Core Industry S&T Sectors and High Growth Target Industries. As outlined in the graphic below, these elements of FIRST Louisiana are closely aligned with LED’s Blue Ocean Sectors.
Goal

Campus Strategic Research Priorities Reports, to be submitted every three years with an opportunity for campuses to provide annual updates, will furnish focused research data in relation to the campuses’ identified STEM research priorities. The overall goal is to provide campus-based statewide context and data which will assist the to-be-formed Master Plan Research Advisory Committee, comprised of one campus research officer appointed by the chancellor/president of each affected campus, one system research officer appointed by the president of each affected system, and Board of Regents staff, to identify and make recommendations related to statewide STEM research priorities. These priorities, including multi-campus and multidisciplinary foci, will help inform recommendations for the Board of Regents Support Fund and other State investments.
APPENDIX A

STEM RESEARCH PRIORITIES
REPORT ELEMENTS
I. Identification and Definition of Priority Research Areas

A. Identify the campus’s top priority research areas aligned with Core Industry S&T Sector and High Growth Target Industry elements of FIRST Louisiana.

1. Campuses are not expected to provide a comprehensive list of all research areas, but to identify selected areas where preeminence has been achieved or is imminent based on national and international measures.

2. Priority research areas selected should manifest strengths across relevant stages of the FIRST Louisiana framework (see Appendix I).

3. A high priority S&T area which is not completely aligned with FIRST Louisiana may be identified and included for master planning purposes. This can be accomplished through campus submission of a revised framework which juxtaposes the components of each unaligned high priority research area with the organizational levels of FIRST Louisiana (i.e. Foundational Sciences, 21st Century Building Blocks, Core Enabling S&T Research, etc. [see Attachment I]).

B. Provide a brief narrative to justify each priority which could include:

1. A description of its particular research agenda and how the area reflects investment across all appropriate levels of the FIRST Louisiana framework (e.g., a biofuels project will align with the energy & environment sector, but may incorporate agricultural sciences at the foundational level, materials science in core enabling research, and energy among translational domains).

2. For identified priority areas not aligned with FIRST Louisiana, a description of how the area complements FIRST Louisiana or other State targets, or explains why it is an important alternative direction.

3. Data detailing research productivity. Presented data may include:
   
   i. The number of principal investigators and, if known, the number of co-principal investigators with active research projects

   ii. The number of active awards and amount of external funding by source (i.e. federal, State, & local, business, non-profit, etc.). Report total awards (including direct and indirect costs) by year.

   iii. Additional data as appropriate and available, such as publications and presentations, industrial partnerships, faculty awards, editorships, national officerships, and undergraduate and graduate student enrollments/completions.
C. Success Stories: Provide a minimum of two success stories (discoveries, inventions, industrial partnerships, spin-off companies, etc.) for each priority research area that significantly impacts or promises to impact the Louisiana economy. Success stories may be selected at the campus’ discretion and any relevant data/information used to illustrate success. Each success story narrative should be limited to one to two paragraphs.

D. Key Institutional Collaborations (Optional): Identify and briefly describe key multi-institutional partnerships and initiatives related to priority research areas.

II. Institutional and External Support for Priority Research Areas

A. How do identified priority areas reflect the mission and vision of the campus, as well as national focuses?

B. How do/will the institution’s internal funding structures (e.g., cluster hiring, strategic investments, infrastructure development, graduate fellowships/fellowship supplements, etc.) reflect and manifest these priorities?

C. How does existing and/or potential external funding relate to these priorities?

III. Research and Economic Development Data

Report campus-wide research and economic development data related to research productivity per year for the past five years\(^1\), including:

A. R&D expenditures as reported to NSF
   a. All R&D Expenditures
   b. Federal Government
   c. Industry

B. # of invention disclosures

C. # of patents filed and issued

D. # of licenses/options signed

E. Amount of licensing income generated

F. # of start-up companies formed

G. # of industry-sponsored research agreements

H. Other significant measures of economic development productivity (define)

\[^1\text{Five-year data reports should include FY 2007-08 through FY 2011-12 for June 30, 2013 report.}\]
**STEM Research Priorities Report Timetable**

<table>
<thead>
<tr>
<th>Event Description</th>
<th>Date</th>
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<tr>
<td>Board Approval of Format for Campus STEM Research Priorities Report</td>
<td>February 2012</td>
</tr>
<tr>
<td>Campus Preparation for Priorities Report</td>
<td>March 2012 - June 2013</td>
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<tr>
<td>Organizational Meeting of the Master Plan Research Advisory Committee*</td>
<td>Summer 2012</td>
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<tr>
<td>First Campus Stem Strategic Research Priorities Reports</td>
<td>June 30, 2013</td>
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<tr>
<td>Meetings of Master Plan Research Advisory Committee</td>
<td>September - December 2013</td>
</tr>
<tr>
<td>Recommendations to Board of Regents</td>
<td>January 2014</td>
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*This Committee will be comprised of one campus research officer appointed by the chancellor/president of each affected campus, one system research officer appointed by the president of each affected system, and Board of Regents staff.*