

**DRAFT MATRIX II: Campus STEM Research Priorities Report**  
**Categories Aligned with FIRST Louisiana High Growth Target Industries**

	Materials & Chemicals	Energy Production	Coastal Resilience	Digital Media	Cyber Security	Biomedical	Bioengineered Solutions	Other (Non-FIRST LA)
<b>LSU AG</b>	<ul style="list-style-type: none"> <li>Materials &amp; Chemicals – from biobased materials</li> </ul>	<ul style="list-style-type: none"> <li>Biobased production of liquid fuels</li> <li>Continuous flow pyrolysis of biomass, using microwave technology, to produce biodiesel liquid fuel</li> </ul>	<ul style="list-style-type: none"> <li>Recent release and licensing of improved lives of three coastal plant species</li> </ul>			<ul style="list-style-type: none"> <li>Commercially available biomedical products</li> </ul>	<ul style="list-style-type: none"> <li>Nanoparticle delivery and encapsulation systems</li> </ul>	<ul style="list-style-type: none"> <li>Food Crop Technology</li> </ul>
<b>LSUBR</b>	<ul style="list-style-type: none"> <li>Conventional &amp; Renewable Energy</li> <li>Materials Science &amp; Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Conventional &amp; Renewable Energy</li> <li>Materials Science &amp; Engineering</li> <li>Individual Behavior &amp; Community Context</li> <li>Communication &amp; Expression</li> </ul>	<ul style="list-style-type: none"> <li>Coastal Sustainability &amp; Environment</li> <li>Materials Science &amp; Engineering</li> <li>Core Computing/ High Performance Computing</li> <li>Individual Behavior &amp; Community Context</li> <li>Communication &amp; Expression</li> </ul>	<ul style="list-style-type: none"> <li>Core Computing/ High Performance Computing</li> <li>Individual Behavior &amp; Community Context</li> <li>Communication &amp; Expression</li> </ul>	<ul style="list-style-type: none"> <li>Core Computing/ High Performance Computing</li> </ul>	<ul style="list-style-type: none"> <li>Biological, Biotechnology &amp; Biomedical Research</li> <li>Core Computing/ High Performance Computing</li> <li>Individual Behavior &amp; Community Context</li> </ul>	<ul style="list-style-type: none"> <li>Biological, Biotechnology &amp; Biomedical Research</li> <li>Materials Science &amp; Engineering</li> <li>Core Computing/ High Performance Computing</li> </ul>	<ul style="list-style-type: none"> <li>Individual Behavior &amp; Community Context</li> <li>Communication &amp; Expression</li> </ul>
<b>LSUHSCNO</b>						<ul style="list-style-type: none"> <li>Alcohol &amp; Drug Abuse</li> <li>Neuroscience</li> <li>Cancer</li> <li>Infectious Diseases</li> </ul>		
<b>LSUHSCS</b>						<ul style="list-style-type: none"> <li>Cardiovascular Diseases</li> <li>Neuroscience</li> <li>Cancer/Virology</li> </ul>		

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<b>LA Tech</b>	<ul style="list-style-type: none"> <li>Science &amp; Engineering for Health &amp; Quality of Life</li> <li>Infrastructure, Energy &amp; Environmental Systems</li> <li>Matter, Materials &amp; Multiscale Systems</li> <li>STEM Education, Entrepreneurship &amp; Innovation</li> </ul>	<ul style="list-style-type: none"> <li>Infrastructure, Energy &amp; Environmental Systems</li> <li>Matter, Materials &amp; Multiscale Systems</li> <li>STEM Education, Entrepreneurship &amp; Innovation</li> </ul>	<ul style="list-style-type: none"> <li>Matter, Materials &amp; Multiscale Systems</li> <li>Infrastructure, Energy &amp; Environmental Systems</li> <li>STEM Education, Entrepreneurship &amp; Innovation</li> </ul>	<ul style="list-style-type: none"> <li>Cyber &amp; Information Systems</li> <li>Matter, Materials &amp; Multiscale Systems</li> <li>STEM Education, Entrepreneurship &amp; Innovation</li> </ul>	<ul style="list-style-type: none"> <li>Cyber &amp; Information Systems</li> <li>Matter, Materials &amp; Multiscale Systems</li> <li>STEM Education, Entrepreneurship &amp; Innovation</li> </ul>	<ul style="list-style-type: none"> <li>Science &amp; Engineering for Health &amp; Quality of Life</li> <li>Matter, Materials &amp; Multiscale Systems</li> <li>STEM Education, Entrepreneurship &amp; Innovation</li> </ul>	<ul style="list-style-type: none"> <li>Science &amp; Engineering for Health &amp; Quality of Life</li> <li>Matter, Materials &amp; Multiscale Systems</li> <li>STEM Education, Entrepreneurship &amp; Innovation</li> </ul>	
<b>LUMCON</b>			<ul style="list-style-type: none"> <li>Sustainability of Clean and Adequate Water Supplies for Multiple Uses</li> <li>Opportunities for Collaboration</li> <li>Promote Statewide Commercialization Mechanisms and Advance Enabling Technology</li> </ul>					
<b>Loyola</b>	<ul style="list-style-type: none"> <li>Environmental Biology &amp; Chemistry</li> <li>Materials Science and Spectroscopic Analysis</li> </ul>		<ul style="list-style-type: none"> <li>Environmental Biology &amp; Chemistry</li> <li>Materials Science and Spectroscopic Analysis</li> </ul>			<ul style="list-style-type: none"> <li>Molecular Genetics &amp; Disease</li> <li>Cellular Biophysics</li> <li>Advanced Nursing Education</li> </ul>		
<b>PBRC</b>								

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<b>SUBR</b>	<ul style="list-style-type: none"> <li>Advanced Materials &amp; Nanotechnology</li> <li>Energy, Ecosystems &amp; the Environment</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Materials &amp; Nanotechnology</li> <li>Energy, Ecosystems &amp; the Environment</li> </ul>	<ul style="list-style-type: none"> <li>Energy, Ecology &amp; the Environment</li> <li>Health &amp; Biological Sciences</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Materials &amp; Nanotechnology</li> <li>Health &amp; Biological Sciences</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Materials &amp; Nanotechnology</li> <li>Health &amp; Biological Sciences</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li>Energy, Ecosystems &amp; the Environment</li> <li>Health &amp; Biological Sciences</li> </ul>	<ul style="list-style-type: none"> <li>Business, Commerce &amp; Workforce Development</li> <li>Understanding Human Behavior, Institutions &amp; Cultures</li> </ul>
<b>Tulane</b>	<ul style="list-style-type: none"> <li>Materials Science</li> <li>Health-Related Research</li> <li>Energy &amp; Environmental Science</li> </ul>	<ul style="list-style-type: none"> <li>Energy &amp; Environmental Science</li> <li>Materials Science</li> </ul>	<ul style="list-style-type: none"> <li>Water Remediation, Management &amp; Coastal Studies</li> <li>Energy &amp; Environmental Science</li> </ul>		<ul style="list-style-type: none"> <li>Materials Science</li> </ul>	<ul style="list-style-type: none"> <li>Health-Related Research</li> <li>Materials Science</li> </ul>	<ul style="list-style-type: none"> <li>Health-Related Research</li> <li>Water Remediation, Management &amp; Coastal Studies</li> <li>Energy &amp; Environmental Science</li> <li>Materials Science</li> </ul>	<ul style="list-style-type: none"> <li>Water Remediation, Management &amp; Coastal Studies (Policy)</li> </ul>
<b>TUHSC</b>			<ul style="list-style-type: none"> <li>Environmental Health</li> </ul>			<ul style="list-style-type: none"> <li>Cancer Biology &amp; Treatment Innovation</li> <li>Environmental Health</li> <li>Sustaining Health &amp; Wellness</li> <li>Infectious Disease Prevention &amp; Treatment</li> <li>Chronic Disease &amp; Novel Therapeutic Approaches</li> </ul>	<ul style="list-style-type: none"> <li>Cancer Biology &amp; Treatment Innovation</li> <li>Environmental Health</li> <li>Infectious Disease Prevention &amp; Treatment</li> <li>Chronic Disease &amp; Novel Therapeutic Approaches</li> </ul>	
<b>ULL</b>	<ul style="list-style-type: none"> <li>Energy &amp; Sustainability</li> <li>Advanced Materials &amp; Manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>Energy &amp; Sustainability</li> </ul>	<ul style="list-style-type: none"> <li>Coastal Ecology &amp; Water Management</li> </ul>	<ul style="list-style-type: none"> <li>Life Science, Healthcare &amp; Wellness</li> <li>Computing, Digital Media &amp; Software</li> </ul>	<ul style="list-style-type: none"> <li>Computing, Digital Media &amp; Software</li> </ul>	<ul style="list-style-type: none"> <li>Life Science, Healthcare &amp; Wellness</li> </ul>	<ul style="list-style-type: none"> <li>Energy &amp; Sustainability</li> <li>Life Science, Healthcare &amp; Wellness</li> <li>Advanced Materials &amp; Manufacturing</li> </ul>	

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ULM	<ul style="list-style-type: none"> <li>• Agricultural, Biological &amp; Environmental Advancements</li> </ul>		<ul style="list-style-type: none"> <li>• Agricultural, Biological &amp; Environmental Advancements</li> </ul>			<ul style="list-style-type: none"> <li>• Biomedical &amp; Healthcare Advancements</li> </ul>		
UNO	<ul style="list-style-type: none"> <li>• Advanced Materials</li> <li>• Naval Architecture &amp; Marine Engineering</li> </ul>		<ul style="list-style-type: none"> <li>• Coastal Resilience</li> </ul>		<ul style="list-style-type: none"> <li>• Information Assurance &amp; Cybersecurity</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced Materials</li> </ul>		
Xavier	<ul style="list-style-type: none"> <li>• Materials Science</li> </ul>	<ul style="list-style-type: none"> <li>• Materials Science</li> </ul>				<ul style="list-style-type: none"> <li>• Cancer Research</li> <li>• Nanomedicine &amp; Drug Delivery</li> <li>• Health Disparities</li> </ul>	<ul style="list-style-type: none"> <li>• Nanomedicine &amp; Drug Delivery</li> </ul>	