

Propulsion Research Center
University of Alabama in Huntsville
Strategic Plan 2015
Executive Summary

PRC Strategic Vision 2015

The PRC will be a major generator of talent and innovative solutions in propulsion and energy related technologies.

The PRC Mission

PRC connects the Academic Research community with Industry & Government to advance basic science and technology development related to propulsion and energy.

STRATEGIC ISSUES

w/ Immediate Impact

- NASA future direction/role(s)
- ? Private company role(s) in space
- State funding for Education
- + “Green” energy movement
- Faculty shortage
- Loss of faculty - retirements
- + Positive for PRC, - Negative for PRC,

w/ Long-term Implications

- + Military roles in space
- ? R&D investment/spending in U.S.
- Globalization vs. ITAR
- ? U.S. Energy Policy or lack thereof
- + Demand for aerospace engineers
- ? Foreign space programs
- ? Unknown Probable Effect

STRATEGIC GOALS 2011-2015

- Goal 1. Expand Partnerships - Strengthen relationships with key organizations and individuals with which PRC can collaborate and conduct research
- Goal 2. Focus Research Opportunities – Select a few broad areas of research on which PRC can concentrate its resources of time and money
- Goal 3. Promote the PRC – Increase awareness of the PRC’s successes and capabilities with key audiences
- Goal 4. Develop People - Keep the educational responsibility of a university in mind by investing to increase the knowledge and skills of faculty and students associated with the PRC
- Goal 5. Enhance the Facility – Maximize the utilization of the real assets to aid in the communication of the world-class research being conducted

STRATEGIC INITIATIVES

- Target Research Sponsors & Partners
- Engage Local Industry in the PRC
- Select Target Areas for Research
- Promote the Talent & Capabilities of the PRC
- Enhance Awareness of the PRC among Key Propulsions & Energy Sectors
- Attract new Faculty to Work in the PRC
- Support Student Achievement through the PRC
- Create a Research Lab that Reflects World-class Research Capabilities
- Engage and Inform State & National Leaders in the Success of the PRC

KEY RELATIONSHIPS

- NASA – MSFC, JPL
- DOD – Army, MDA, Air Force, Navy, Marines, Coast Guard
- PRC Advisors
- Pratt Whitney Rocketdyne
- Congressional Leaders & Staff
- Senators & Staff
- UA Systems Trustees
- Foreign Space Agencies??
- Auburn University
- Purdue University
- Penn State University

FINANCIAL RESOURCES & TARGETS

	<u>2010</u>	<u>2011</u>	<u>2013</u>	<u>2015</u>
Announced Research Awards	<u>\$1,684,420</u>	<u>\$1,500,000</u>	<u>\$2,500,000</u>	<u>\$3,000,000</u>
Research Conducted	\$1,231,322	\$1,500,000	\$2,500,000	\$3,000,000
State Funding	\$199,034	\$190,000	\$190,000	\$190,000
Other Funding	<u>\$120,000</u>	<u>\$25,000</u>	<u>\$31,000</u>	<u>\$39,000</u>
Total	<u>\$1,550,356</u>	<u>\$1,715,000</u>	<u>\$2,721,000</u>	<u>\$3,229,000</u>