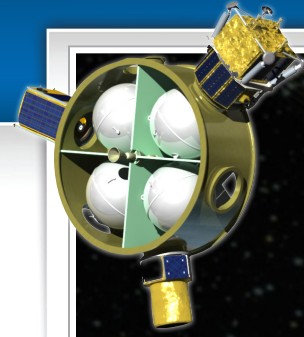


Rocket City Space Pioneers Enter Race to the Moon...



Space Pioneers, made up of Huntsville partners Dynetics (team leader), Teledyne Brown Engineering,

Andrews Space, Spaceflight Services, Draper Laboratory, the University of Alabama Huntsville, and the Von Braun Center for Science & Innovation will compete for the Google Lunar X PRIZE. This is a \$30 million international competition to safely land a robot on the surface of the Moon, travel 500 meters over the lunar surface, and send images and data back to the Earth.

Dynetics has brought together a well-seasoned team of partners who have worked together on multiple innovative spacecraft and propulsion programs performed on tight budgets with short delivery schedules. The team exemplifies the type of lean, innovative working relationship that is critical to the success of a program such as the Google Lunar X PRIZE.

The Google Lunar X PRIZE is an unprecedented competition that will challenge and inspire engineers and entrepreneurs from around the world to develop low-cost methods of robotic space exploration. The X

PRIZE Foundation, best known for the \$10 million Ansari X PRIZE for private suborbital spaceflight, is an educational nonprofit prize organization whose goal is to bring about radical breakthroughs to solve some of the greatest challenges facing the world today.

The team leader for the Rocket City Space Pioneers, Tim Pickens, was the lead propulsion engineer for the Ansari X PRIZE-winning SpaceShipOne team. Having participated on a winning X PRIZE team, Tim appreciates the gravity and benefits of such a technically challenging endeavor. The Ansari X PRIZE jump-started commercial space and an entrepreneurial spirit throughout the country and created opportunities for further innovation and commercialization.

The Rocket City Space Pioneers are developing a low-cost lunar lander/rover system for conducting commercial and scientific missions on the Moon and potentially other planetary bodies. The lander/rover system is capable of a soft landing on a planetary body, and deploying a rover measuring approximately 30x30x15 cm and weighing less than 10 kg.

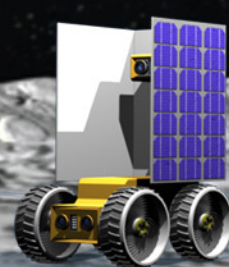
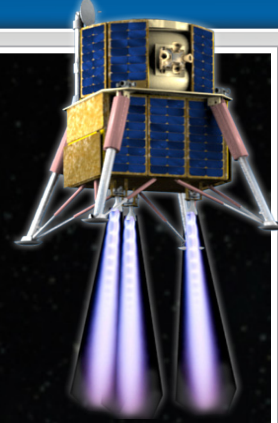
To compete for the Google prize, a team must be at least 90 percent privately funded and must be registered to compete by December 31, 2010. The first team to land on the Moon and complete the

mission objectives will be awarded \$20 million; the full first prize is available until December 31, 2012.

Huntsville is known as "The Rocket City" for its impact on space exploration, so it is only fitting that a Huntsville team should go after this prize. Huntsville has been developing important space technologies since the 1950s when the German scientists headed by Dr. Wernher von Braun, brought to the United States at the end of World War II, arrived to develop rocketry for the U.S. Army. Huntsville lofted the first US satellite into orbit—Explorer I—in 1958.

Huntsville is home to Redstone Arsenal and NASA's Marshall Space Flight Center, where the Saturn V, used by the Apollo program manned Moon missions was developed. Huntsville continues to play a vital role in space exploration.

Dynetics' hand-selected team has the excitement, experience, and capabilities to produce a successful technical solution and, more importantly, a business case to make this endeavor a viable solution.



Huntsville Team Competes for Google Lunar X PRIZE

Dynetics

Dynetics is an employee-owned company that has operated in Huntsville – the Rocket City – for more than 35 years. Dynetics has managed government and commercial programs involving multiple partners including industry and academia. Success stories include our recent FASTSAT program – we delivered a commercial microsatellite in less than 15 months – and the development of the forward propulsion system for the Bigelow Sundancer space station. Currently, Dynetics is working with the Von Braun Center for Science & Innovation (VCSI) and Teledyne Brown Engineering to provide NASA with a hot gas lunar lander testbed.



Teledyne Brown Engineering has a long heritage of space systems expertise dating back to the Saturn V and most recently in developing payload systems for the International Space Station. Recently, Teledyne designed, built, and flew the Ares I-X Roll Control System and also delivered NASA's cold gas lunar lander testbed.



Andrews Aerospace was founded in 1999 to be a catalyst in the commercialization and development of space. The company is an affordable integrator of aerospace systems and a developer of advanced space technologies. As a result of a lean philosophy and understanding of launch services, Andrews Space created Spaceflight Services, focused on providing routine low-cost space access for small payloads through the use of standard flight interfaces and a streamlined integration process. Spaceflight Services recently signed an agreement with SpaceX to provide payload and integration services on the Falcon 9.



Draper Laboratory has 50 years of experience in developing Guidance, Navigation, and Control (GNC) solutions for space and missile systems, including the Apollo lunar lander system. Continuing to build on its heritage of lunar landing success, Draper is a member of NASA's Autonomous Landing and Hazard Avoidance Technology (ALHAT) team and has developed Guidance Embedded Navigator Integration Environment (GENIE) to demonstrate a fully functional, real-time GNC code on a terrestrial lander testbed, which completed a test flight in June 2010.



The University of Alabama in Huntsville has a long history of developing spaceflight hardware projects. The University has flown more than 18 space shuttle flight payloads and three International Space Station payloads.



The non-profit Von Braun Center for Science & Innovation (VCSI) provides innovative engineering solutions and science applications. VCSI will support the team in developing unique partnering opportunities with other industrial partners, academia, and government laboratories on a reimbursable basis.

Meet the Rocket City Space Pioneers



Tim Pickens, Team Lead

Tim Pickens, Team Lead, is chief propulsion engineer and commercial space advisor at Dynetics. He was president and CEO of Orion Propulsion, an engineer at Plasma Processes, Inc., and the lead propulsion engineer at Scaled Composites for SpaceShipOne, the Ansari X PRIZE winner. Pickens has more than 15 years of experience in the aerospace industry, specializing in the design, fabrication and testing of propulsion hardware systems.

Mike Graves, Spacecraft Integration, is the department manager of Space Vehicles at Dynetics with more than 18 years of experience in space vehicle mechanical design, software development and testing, fabrication, ground operations and all ground support equipment. He is the lead project manager for the Fast Affordable Science & Technology Satellite Huntsville (FASTSAT-HSV01) for the Department of Defense (DoD) Space Test Program (STP).

Jason Andrews, Mission Design/Avionics/Launch Integration, is president and CEO of Andrews Space/Spaceflight. He has more than 15 years of experience in the integration of aerospace systems, developing advanced space products and technologies and providing innovative solutions and technical services.

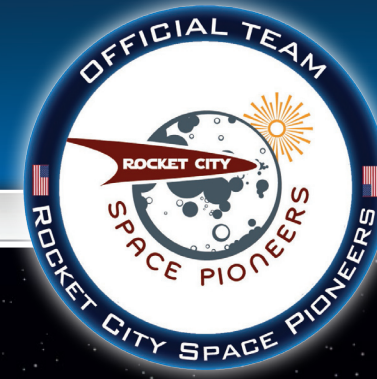
Pete Pacey, Guidance, Navigation and Control (GN&C), is general manager of Draper Laboratory in Huntsville. He has more than 28 years of experience in the design, development and certification of commercial and government space systems, including launch vehicle and spacecraft GNC and avionics systems, pressurized science and cargo modules for Shuttle, unpressurized cargo pallets for shuttle and ISS, flight support equipment, and ground support equipment.

Mike Soutullo, Structures, is aerospace chief engineer at Teledyne Brown Engineering. He has more than 30 years of experience in space systems development, including Ares I-X Roll control chief engineer, director of the Cargo mission, project manager PM – ISS Payload Integration; Deputy PM – Payload Mission Integration; Shuttle-Mir Payload Mission and Spacelab ATLAS 1 and 2, ASTRO-1, USMP; Solid Rocket Parachute Reinforcement.

Mark Fisher, Propulsion, is Dynetics Propulsion Department manager. He has more than 20 years of space system experience. He served as vice president of Orion Propulsion, Inc., program director at Miltec Corporation, OSP Prog Integration Office, SLI Main Engine Projects Manager, RS-83 Main Engine Project, X-34 Manager and Fastrac Engine Systems lead.

Barry King, Missions Operations, is director for Space Test and Operations at Dynetics. He has 28 years of launch operations experience, particularly in the areas of integration, test and mission operations. His experience includes missile test and range operations, at Reagan Test Site, Cape Canaveral AFS, Vandenberg AFB and Kodiak Launch Complex. He has been involved in more than 200 launches for NASA, DoD and commercial missions. He is a former range operations supervisor on DoD Shuttle and Boeing launch director for the Ground-Based Interceptor.

John Gregory, Student Research, is director of the Alabama Space Grant Consortium and Alabama NASA EPSCoR Programs at the University of Alabama Huntsville. He has experience managing 14 programs with “Students Building Spaceflight Hardware” in which students assume responsibility for execution of the entire project, with mentoring from expert professionals.



Racing Back to the Moon . . .



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