



For Immediate Release

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NUMERICA SUPPORTS NASA TO IMPROVE SPACE FLIGHT

LOVELAND, CO (July 25, 2011) – Numerica Corporation, a leading research and development company working in the area of information science, was awarded a 2-year, \$600,000 Small Business Innovation Research Phase II contract to help improve space mission design for the National Aeronautics and Space Administration (NASA).

Numerica program director Randy Paffenroth, Ph.D., will lead his company's efforts to compute and manage uncertainty in flight trajectories, which will ultimately offer NASA solutions to optimize its space mission design. Numerica research scientist Philip Du Toit, Ph.D., is a key contributor to the project.

The target for Numerica's advanced mathematical algorithms is the General Mission Analysis Tool (GMAT) – one of NASA's software suites for mission design. The company will collaborate with scientists at Goddard Space Flight Center in Greenbelt, Maryland, as well as the Jet Propulsion Laboratory in Pasadena, Calif., to deliver the solution for NASA.

Numerica's technology will help compute flight paths in complicated dynamical situations, lower fuel consumption and reduce uncertainty for NASA space missions. Numerica also predicts commercial potential for the technology beyond the NASA application. The firm *Forecast International* projects a large and ever-growing satellite market with worldwide deliveries of 262 geostationary or medium-Earth orbit commercial communications satellites by 2019. As space becomes more crowded with commercial and government spacecraft and orbiting debris, Numerica's robust calculations of trajectories, and the accurate tracking of "space junk," may help ensure the success of future commercial satellite launches.

"Our technical teams thrive on the challenging problems NASA-related missions present," said Numerica President Jeff Poore. "It's exciting and rewarding to help NASA realize program success in space, and to explore commercial applications for this technology."

NASA was established in 1958 by President Dwight D. Eisenhower to pioneer the future of space exploration, scientific discovery and aeronautics research. Throughout its history, NASA has conducted or funded research that has led to numerous improvements to life on Earth.

Since 1996, Northern Colorado-based Numerica Corporation has been a leading research and development company solving the world's most challenging information science problems. Numerica is a globally recognized information tracking expert, providing technology solutions that manage uncertainty, integrate systems and enhance our national security. Today, nearly 50 employees in Colorado and California provide state-of-the-art algorithm and software development in the areas of [integrated air and missile defense](#), [video tracking](#), [cyber security](#), [geospatial information systems](#), [chemical and biological detection](#), and [space situational awareness](#). Numerica's reputation, strong industry relationships, and commitment to providing solutions for seemingly unsolvable problems, continue to generate growing demand for its products and services. For more information, visit www.numerica.us.

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