



For immediate release

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Aculight Corporation Awarded NASA Contract to Develop Rugged, Efficient, UV Fiber Laser

Bothell, Wash., March 7, 2005 – Aculight Corporation, a leading developer of innovative laser technologies, has won a new contract under the Small Business Innovation Research (SBIR) program. The award is a Phase I contract from NASA for \$70,000 to develop a compact, efficient and robust ultraviolet (UV) fiber laser system for space-based UV-Raman spectrometers.

Based on Aculight's novel pulsed fiber laser technology, the system will produce frequency-quadrupled UV light at 245 nm. The combination of a compact, efficient, pulsed fiber system with harmonic generation technology will enable a more compact, efficient and reliable UV-Raman spectrometer than is currently available.

Raman spectroscopy is a powerful technique for detecting and identifying chemical and biological species ranging from carcinogens to biological warfare agents. NASA will use the new Raman spectrometer for space-based applications such as detecting potential signs of life elsewhere in the solar system. Ultimately however, the UV source could be integrated into spectrometers with applications ranging from medical imaging and homeland security to industrial sensing.

“This new contract continues to strengthen Aculight's position as a leading developer and supplier of high-peak-power fiber lasers for government and commercial applications and the conversion of these lasers to wavelengths of interest to our customers,” said Dr. Andrew Brown, Aculight's director of business development.

The new SBIR contract to generate UV light from fiber lasers closely follows Aculight's announcement of a novel laser system that produces 60 watts of green output using fiber laser technology. Aculight's frequency-converted fiber laser systems could enable the use



of fiber technology in applications that demand high-power green and UV output. These include materials processing, medicine and defense, among others. Fiber lasers are especially desirable for these applications because their all-fiber designs are more reliable, efficient, compact and rugged than other laser technologies.

Founded in 1993, Aculight Corporation develops and manufactures innovative laser technologies for the industrial, research, government and medical markets. Aculight's technology portfolio includes fiber lasers, diode-pumped solid-state lasers, nonlinear optics, and external cavity diode lasers. For more information about Aculight, please contact Andrew Brown, director of business development, at (425) 482-1100, or visit www.aculight.com.

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