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Niowave wins two more Department of Energy contracts Company brings \$1.5 million from outside Michigan into local economy

LANSING, Mich—Niowave, Inc. of Lansing announced today that it has received two new contracts with the Department of Energy for a combined total of \$1,500,000. The two contracts are part of the Department of Energy's Small Business Innovation Research (SBIR) program. Each contract was awarded for \$750,000 in support of the second phase of the projects, and each will be completed in July 2011.

The first contract will research and develop a 1500 MHz superconducting radio frequency (SRF) "Landau" cavity. These third harmonic cavities will be used passively to lengthen electron bunches within the accelerator, which will extend the electron beam life. The Landau cavities are being developed in collaboration with Brookhaven National Laboratory on Long Island, New York. The cavities will be used in the National Synchrotron Light Source-II (NSLS-II) project, a \$1 Billion project that broke ground at Brookhaven earlier this year, and will be operational by 2016. In addition to the Department of Energy funding, Niowave received an additional \$250,000 in outside funding for commercialization. The outside funding consists of \$125,000 in private investment, and \$125,000 matching funds from the Michigan Emerging Technology Fund.

The second contract will research and develop a 500 MHz SRF spoke cavity. This project involves collaboration with the Thomas Jefferson National Accelerator Facility (JLAB) in Newport News, Virginia. This continuing development of spoke cavities for future SRF electron accelerators will allow a further reduction in the accelerator's overall size without compromising its performance. Compact accelerators utilizing SRF cavities can be successfully used in a broad range of applications from x-rays machines for cancer therapy and sterilization, to tunable x-ray and gamma sources, to high energy electron accelerators.

President and founder Dr. Terry Grimm stated: "Niowave is delighted to continue the second phase of both of these projects. Both projects are developing technologies that will open up whole new markets for Niowave in the future. With two other spoke projects awarded earlier this year, Niowave is now becoming known as a world-wide expert in spoke technology." Jerry Hollister, Niowave's Chief Operating Officer went on to state: "Landing these two projects gives us solid research for our new staff, and will allow us to expand our staff in the months to come. Receiving the matching funds from the Emerging Technology Fund and our private investors will allow us to effectively commercialize these new technologies."

Niowave is a high-tech research, development and manufacturing firm specializing in superconducting particle accelerators. Founded in 2005, Niowave's state of the art facilities produce accelerators for domestic and overseas customers. These customers include research labs, universities, medical fields, and defense. Niowave has more than doubled its staff since the middle of 2008, and was named among the "Michigan 50 Companies to Watch" for 2009.

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