



**Sensor Electronic
Technology, Inc.**

1195 Atlas Road
Columbia, SC 29209
Phone: +1 (803) 647-9757
Fax: +1 (803) 647-9770
<http://www.s-et.com>

For immediate release

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Sensor Electronic Technology, Inc. wins NSF SBIR Phase II award to develop innovative water disinfection units based on solid state deep ultraviolet (DUV) LEDs

Columbia, SC, USA – September 15, 2010 – Sensor Electronic Technology, Inc. (SETI), announced that it has been awarded a Small Business Innovation Research (SBIR) Phase II award from the National Science Foundation (NSF) for \$475,000 to develop point-of-use (POU) Deep Ultraviolet LED (DUV LED) based drinking water disinfection systems.

During this SBIR program, SETI will design, develop, fabricate and demonstrate advanced all-LED water treatment units with reduced power consumption and extended reliability. The main effort will focus on increasing the germicidal efficacy and reducing the cost of LED disinfection units through the advances in LED packaging and disinfection chamber design.

Through Phase I of this NSF SBIR program, SETI recently demonstrated 99.99% disinfection of *E-coli* in a POU drinking water system with water flowing at 1 liter per minute using its 275nm UVCLEAN® LED lamps emitting around 30mW of optical power. Following this success, SETI has begun to ship bespoke proof of concept units to companies for evaluation in consumer products.

Further development of UV disinfection technology using semiconductor UV lamps will utilize unique device characteristics, such as controlled UV spectral power distribution, fast switching time, lower power consumption, high reliability, small size and ruggedness. SETI believes that these advantages will enable new opportunities to incorporate UV disinfection into consumer water purification systems.

About SETI

SETI is the world's only commercial manufacturer of deep UV LEDs operating in the germicidal wavelength range and has standard UVCLEAN® lamps available with up



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to 50mW of optical output power at 275nm or can work with customers to provide bespoke OEM solutions.

LEDs and LED lamps are also commercially available from 240nm to 400nm for many other applications including air and surface disinfection, UV curing, scientific instrumentation medical diagnosis and therapy.

Certified to ISO9001:2008, SETI is committed to quality and exceeding customer expectations.

About NSF

The National Science Foundation (NSF) is an independent federal agency created by Congress in 1950 "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense..." With an annual budget of about \$6.06 billion, we are the funding source for approximately 20 percent of all federally supported basic research conducted by America's colleges and universities. In many fields such as mathematics, computer science and the social sciences, NSF is the major source of federal backing.

The U.S. Small Business Administration (SBA) Office of Technology administers the Small Business Innovation Research (SBIR) Program and the Small Business Technology Transfer (STTR) Program. Through these two competitive programs, SBA ensures that the nation's small, high-tech, innovative businesses are a significant part of the federal government's research and development efforts. Eleven federal departments participate in the SBIR program; five departments participate in the STTR program awarding \$2billion to small high-tech businesses. The U.S National Science Foundation administers the SBIR.GOV site on behalf of the federal government.

For more information, please visit www.s-et.com or contact us directly at info@s-et.com or on +1 (803) 647-9757.

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