



FOR IMMEDIATE RELEASE

**Enertechnix Selected for Award by the NIH National Heart, Lung, and Blood Institute's Small Business Innovation Research Program**

*Enertechnix's advanced technology for personal exposure monitoring will enable aerosol sampling within the entire range of respirable particle sizes.*

**SEATTLE – April 28, 2009** – Enertechnix, a leader in airborne sampling, collection and classification technologies, has been selected by the National Institutes of Health National Heart, Lung, and Blood Institute to receive a Small Business Innovation Research award. Enertechnix is negotiating the contract to develop a personal exposure monitor that will provide measurements in the entire range of respirable particle sizes.

The award will be used by Enertechnix to develop a personal exposure monitor for aerosol particles in the ultrafine to 10-micron size range. The exposure monitor will combine a novel high-performance aerosol concentrator with a built-in particle collector and electrostatic precipitator. Coupled with automated data recording and/or transmitting equipment and a GPS or other position-monitoring device, this monitor will be able to provide time- and space-resolved measurements.

"Working with the National Heart, Lung, and Blood Institute will enable us to expand our technology's use in environmental and medical sciences to monitor the health impact of aerosol particles on the population," said George Kychakoff, president of Enertechnix. "The effects of inhaled nanoparticles on humans are not yet fully understood, and by enabling measurement down to the nanoparticle size, our technology can support new areas of important medical research."

Enertechnix has substantial expertise in this area, and has developed a  $\mu$ ADL (micro-aerodynamic lens) aerosol concentrator with support from the Department of Homeland Security and the Defense Threat Reduction Agency. This concentrator is a key part of a personal exposure endotoxin monitoring system that Enertechnix is currently developing under a grant from the National Institute of Environmental Health Sciences. The performance of Enertechnix's aerosol concentrator will be augmented by integrating it with an electrostatic precipitator, which will extend the range of the current system to include particulate matter (PM) smaller than 1 micron. The aerodynamic concentrator will target larger particles (PM 2.5 and PM 10), while the electrostatic method will capture and size smaller particulate matter, typically associated with diesel exhaust.

"The National Institutes of Health plays an important role in improving the health of our nation," said Peter Ariessohn, Enertechnix vice president of research and development and principal investigator. "We are excited about this opportunity to extend our technology from concentrating particles to separating them by size, as well as extending the size range that can be sampled. We have developed a suite of basic aerosol manipulation technologies with exceptional performance and are continuing to develop new capabilities to address important problems in security, environmental monitoring, biomedical, and other application areas."

**About the NIH and National Heart, Lung, and Blood Institute**

The National Institutes of Health ([www.nih.gov](http://www.nih.gov)) is composed of 27 institutes and centers and provides leadership and financial support to researchers in every state and throughout the world. The National Heart, Lung, and Blood Institute ([www.nhlbi.nih.gov](http://www.nhlbi.nih.gov)) provides leadership for a national program in diseases of the heart, blood vessels, lung, and blood; blood resources; and sleep disorders. The Institute plans, conducts, fosters, and supports an integrated and coordinated program of basic research, clinical investigations and trials, observational studies, and demonstration and education projects.

**About Enertechnix**

Enertechnix develops and commercializes innovative technologies for environmental monitoring and improving the efficiency, cleanliness, and safety of large-scale energy conversion processes. Enertechnix is also active in a broad program of research and development, aimed at airborne aerosol capture and classification, measuring temperatures in gasifiers, detection of IEDs, and monitoring of personal exposure to toxins and allergens. Since its inception in 1995, Enertechnix has also developed and commercialized acoustic systems for measuring gas temperatures in large-scale boilers, and mid-IR imaging systems for visual monitoring of conditions within high-temperature, particle-laden environments. More information is available at [www.enertechnix.com](http://www.enertechnix.com).

###

Media Contact: George Kychakoff, President  
(425) 432-1589 | [george.k@enertechnix.com](mailto:george.k@enertechnix.com)