

*Exceptional service in the national interest*

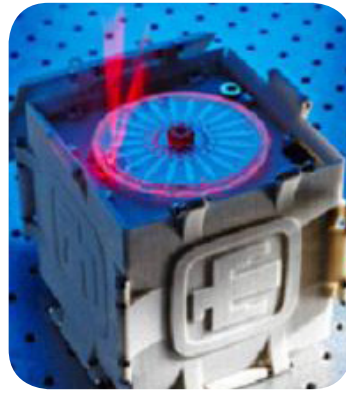
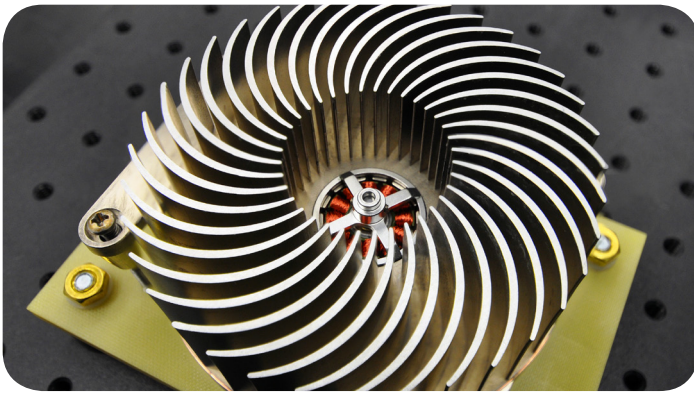


Sandia  
National  
Laboratories

# Partnerships

## POST

May 2013



## “Hot” Technologies Available Now!

### Welcome

The *Partnerships Post* e-Newsletter highlights the latest licensing opportunities at Sandia National Laboratories.

### “Hot” Technologies

Sandia’s objective is to get technology out to industry as broadly as possible. Three “Hot” Technologies are currently getting a lot of interest from industry and are available for licensing now.

The **Sandia Cooler** technology is a breakthrough that ensures that the electronics we depend on daily don’t overheat. **SpinDx™** is a technology that allows biological diagnostics to be done in 15 minutes and has applications in medicine, veterinary care, and law enforcement. And lastly, the **Sandia Hand** has applications in law enforcement and human prosthetics.

Combined, these technologies already have seven signed licenses and there are 21 licensing and partnering negotiations underway.

### Licensing Opportunities

Here are summaries of three “Hot” Technologies available for licensing:

#### Sandia Cooler

This technology represents a fundamental breakthrough in heat transfer technology. It is a small, quiet unit that provides dramatic increase in cooling performance, high thermal efficiency, and superior resistance to dust.

A vast area of potential applications includes notebook & desktop PCs, portable computing systems, servers, networking equipment, power electronics, high resolution displays & cameras, projection systems, gaming systems, medical imaging systems, telecommunications, avionics, radar systems, test equipment, energy storage systems, LED lighting, appliances, HVAC, and automotive applications including lighting, batteries, and infotainment systems.

For more information about the Sandia Cooler, click on the links below:

[DOE-Sandia Cooler Blows Traditional CPU Coolers Away](#)  
[YouTube Video](#)  
[2012 R&D 100 Award](#)

#### SpinDx™

This technology represents a revolutionary point-of-care diagnostic device. The apparatus is portable, cost-effective, and efficient. It is capable of testing up to 64 assays on a single disc in under 15 minutes from a single drop of fluid.

The technology is broadly applicable:

- Point-of-care diagnostic testing: cardiac markers, infectious diseases, neonatal and pediatric monitoring, and fertility testing
- Animal testing: veterinary testing and safety of feed lots during disease outbreaks
- Law enforcement: toxicology
- Food and water safety: food production plants and agriculture tools for the life science research market

For more information about SpinDx, click on the links below:

[YouTube Video](#)  
[Albuquerque Journal](#)  
[Fox News](#)

#### Sandia Hand

The Sandia Hand is a cost-effective robotic hand that can be used in disarming improvised explosive devices (IEDs). This technology addresses challenges that have prevented widespread adoption of other robotic hands, such as cost, durability, dexterity, and modularity.

This modular hand with interchangeable fingers can be tailored to suit a wide variety of applications requiring high dexterity at a low cost, including but not limited to IED disablement. Fingers and other tools such as flashlights, screwdrivers, and cameras can be quickly and easily attached into the hand frame allowing for fast recovery. The modular design also confers durability to the Sandia Hand. The fingers are designed to detach in the event of a collision with a wall or other object. This innovative configuration allows the Sandia Hand to position and resocket the detached finger independently without the need for operator engagement.

For more information about the Sandia Hand, click on the links below:

[YouTube Video](#)  
[New York Times](#)  
[Robotics Business Review](#)

For more information about these featured “Hot” Technologies, contact us at [ip@sandia.gov](mailto:ip@sandia.gov). To find out more about other exciting technologies available for licensing, visit <https://ip.sandia.gov>.

To learn more about partnership opportunities with Sandia National Laboratories, please contact us at [partnerships@sandia.gov](mailto:partnerships@sandia.gov), 505.284.2001, or visit <http://www.sandia.gov/partnerships>.



Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy’s National Nuclear Security Administration under contract DE-AC04-94AL85000.

SAND Numbers: 2013-XXXXP