

Working With Industry Technology Transfer

User Facilities at Brookhaven

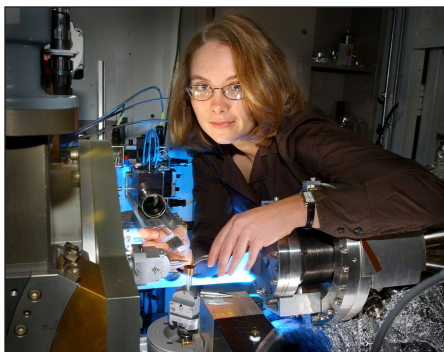
One of Brookhaven's primary missions is to design, construct and operate state-of-the-art research facilities for use by the worldwide scientific community. Institutions, such as universities and industry, send researchers to Brookhaven to conduct work at these facilities:

- National Synchrotron Light Source
- Relativistic Heavy Ion Collider
- Center for Functional Nanomaterials
- Alternating Gradient Synchrotron
- Scanning Transmission Electron Microscopy
- Double MP-type Tandem Accelerator

For more information about technology-transfer programs, contact the Office of Intellectual Property and Sponsored Research:

- phone: (631) 344-2634
- e-mail: ott@bnl.gov
- <http://www.bnl.gov/techxfer/>

Brookhaven National Laboratory's quest for basic knowledge can lead to practical applications. Brookhaven invites industry to develop and market the Laboratory's patented inventions, as well as participate in its research. Such partnerships with industry benefit the U.S. economy and the national well-being.



National Synchrotron Light Source user

and vectors useful for the manufacture of recombinant proteins.

Sponsored Research

Brookhaven has an active program in pursuing and conducting research with other federal

agencies outside of DOE, as well as, maintaining a work-for-non-federal partners program under which it enters into agreements with private industry, universities, state and local governments, and nonprofit foundations to conduct research on behalf of the sponsor in fields in which the Laboratory has unique capabilities.

Three options are available for sponsored research agreements:

Grants

A sponsor can make a grant to Brookhaven indicating that the funds be used to support basic research in a general area of Laboratory expertise. In this type of agreement, the sponsor plays no part in the direction of the research and is not entitled to rights to the research results. Nevertheless, the sponsor has access to information generated during the conduct of the research, through discussions with Laboratory researchers, and through the Laboratory's publication of scientific papers.

Non-proprietary Research

In a non-proprietary research agreement, the sponsor and Brookhaven define a research project to be conducted by Brookhaven and funded by the sponsor. Under such an agreement, Brookhaven

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Intellectual Property Licensing

Brookhaven actively seeks licensees for Laboratory inventions that demonstrate commercial potential. Brookhaven Science Associates (BSA), the contractor that manages the Laboratory for the U.S. Department of Energy, patents these inventions. Licenses on these patented technologies can be exclusive, for a specific field of use, or for a specific geographical area. The potential licensee must present plans for commercialization of the inventions.

There are more than 100 technologies in BSA's licensing portfolio. These inventions are in diverse areas, including molecular biology, medical devices, pharmaceuticals, optics, instrumentation, novel materials, environmental remediation, and energy production.

A number of products have been commercialized under licenses from BSA, including a red-blood-cell labeling kit, which is used worldwide in over two million medical procedures each year; a hazardous-waste treatment technology that significantly reduces the potential for releasing stored waste into the environment; and a system of host cells



Red-blood-cell labeling kit

Working With Industry (continued)



Center for Functional Nanomaterials

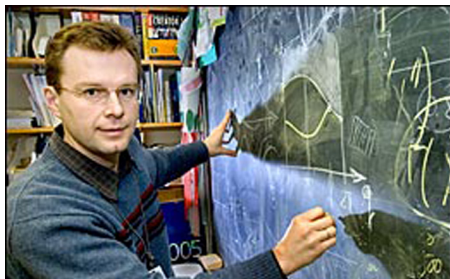
retains the right to publish research results. Such projects require prior approval from the U.S. Department of Energy.

Proprietary Research

In a proprietary research agreement, the sponsor and Brookhaven define a research project to be conducted by Brookhaven and funded by the sponsor. Under such an agreement, the sponsor has the option to take title to any inventions made by Brookhaven during the sponsored research program and to control the research data generated under the program. Such projects require prior approval from the U.S. Department of Energy.

Collaborative Research: CRADAs

Established by federal legislation, Cooperative Research and Development



Brookhaven-designed graphene-magnet multilayers can be used to create a full spectrum of spintronic devices -- the next generation of electronics.

Agreements (CRADAs) promote the transfer of scientific expertise and technology from federal laboratories to industry. CRADAs provide a mechanism under which Brookhaven conducts collaborative research with industry.

Both Brookhaven and the CRADA partner can provide personnel, services, facilities, or equipment for the specified research. Brookhaven's work under a CRADA can be supported with funding from the U.S. Department of Energy, the industry-participant, Brookhaven Science Associates' licensing income, or any combination of these. Rights to inventions and other intellectual property developed under a CRADA are negotiated as part of the CRADA.

Brookhaven's CRADA projects are in diverse fields, including nuclear medicine, electronics, new materials, and environmental remediation, thus reflecting the breadth of research at the Laboratory.

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