



Autodesk Software Speeds Nanotech Research Development at Brookhaven National Laboratory

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National Synchrotron Light Source II to Provide New Setting for Scientists Exploring Clean Energy Solutions

SAN RAFAEL, Calif., Jul 29, 2010 (BUSINESS WIRE) --

[Autodesk, Inc.](#) (NASDAQ: ADSK) has named Brookhaven National Laboratory (Brookhaven Lab) -- a national research laboratory overseen by the Office of Science of the U.S. Department of Energy -- as the Autodesk [Inventor of the Month](#) for July in recognition of its innovative nanotechnology equipment.

Brookhaven Lab is the current home of the National Synchrotron Light Source (NSLS), one of the world's most widely used scientific user research facilities. Each year, thousands of researchers use the facility's bright beams of X-ray, ultraviolet and infrared light while conducting research in such diverse fields as biology, medicine, chemistry, environmental sciences, physics and materials science.

Brookhaven Lab is building NSLS-II, an electron storage ring designed to produce X-rays more than 10,000 times brighter than the current NSLS. Nearly 900 feet in diameter, the NSLS-II will enable scientists to focus on important scientific challenges at the nanoscale level, such as generating new types of materials to harvest solar energy or developing high-temperature superconductors to transmit electricity more efficiently.

Digital Prototyping Keeps Project Moving

Brookhaven Lab mechanical designers, engineers and scientists are relying on [Autodesk Inventor](#) software from authorized Autodesk system integrator Widom Associates to design and [digitally prototype](#) the complex NSLS-II equipment.

"There's so much information we can get from a digital prototype created in Inventor software," said Mike Loftus, supervisor of the mechanical design group for the NSLS-II project at Brookhaven Lab. "Inventor helps us select different materials, perform analysis and truly visualize our designs of the NSLS-II."

Brookhaven Lab keeps track of its designs using [Autodesk Vault Manufacturing](#) software and uses [Autodesk Navisworks](#) software to share project models with Torcon, the general contractor charged with building the facility that will house the various NSLS-II components. The enhanced communication helps Brookhaven Lab and Torcon collaborate effectively while ensuring that construction of the NSLS-II remains on schedule.

"On the largest and most complex mechanical engineering projects, Digital Prototyping keeps everyone on the same page," said [Robert "Buzz" Kross](#), senior vice president, Manufacturing Industry Group at Autodesk. "Brookhaven Lab's NSLS-II venture shows how digital prototypes enable efficient coordination across myriad internal and external teams, helping to avoid mistakes and reduce overall time and costs."

About the Autodesk Inventor of the Month Program

Each month, Autodesk selects an Inventor of the Month from the users of Autodesk Inventor software, which takes manufacturers beyond 3D to Digital Prototyping. Winners are chosen for engineering excellence and groundbreaking innovation. For more information about Autodesk Inventor of the Month, contact IOM@autodesk.com.

About Brookhaven National Laboratory

One of 10 national laboratories overseen and primarily funded by the Office of Science of the U.S. Department of Energy (DOE), Brookhaven National Laboratory conducts research in the physical, biomedical and environmental sciences, as well as in energy technologies and national security. For additional information, visit www.bnl.gov.

About Torcon, Inc.

Torcon is a leading U.S. construction manager that also offers general contracting, design/build, and project management services to leading corporations and private institutions. For more information, visit www.torcon.com.

About Widom Associates

As one of Autodesk's premier resellers, Widom Associates helps companies develop affordable, turnkey engineering solutions that increase profitability, improve productivity and reduce the time it takes to bring products to market. For more information, visit www.widom-assoc.com.

About Autodesk

Autodesk, Inc., is a world leader in 2D and [3D design](#), engineering and entertainment software for the manufacturing, building and construction, and media and entertainment markets. Since its introduction of AutoCAD software in 1982, Autodesk continues to develop the broadest portfolio of state-of-the-art software to help customers experience their ideas digitally before they are built. Fortune 100 companies -- as well as the last 15 Academy Award winners for Best Visual Effects -- use [Autodesk software](#) tools to design, visualize and simulate their ideas to save time and money, enhance quality and foster innovation for competitive advantage. For additional information about Autodesk, visit www.autodesk.com.

Editorial Note:

An interview with Brookhaven Lab is available on the Autodesk YouTube Channel at <http://www.youtube.com/watch?v=Mdh4yM04dEw>.

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