Northwestern University
McCormick by Design
Robert R. McCormick School of Engineering and Applied Science
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Northwestern embraces nanotechnology

Nanotechnology appears to be sprouting up everywhere at Northwestern, cutting across department and school lines and bringing together researchers from different disciplines. One factor that makes Northwestern a magnet for nanotechnology is the University's longtime support of interdisciplinary efforts.

Jay Walsh

That commitment extends even to campus planning, says Jay Walsh, professor of biomedical engineering and associate dean for graduate studies and research. "Northwestern made a strategic decision to place its science and engineering facilities within a small footprint at the north end of the Evanston campus," he says. "This allows faculty and students to readily interact and fosters exciting collaborations in an ever more interdisciplinary world."

Walsh provided *By Design* with a list of nanotechnology awards at Northwestern — more than 100 since January 2001. He points out that Northwestern is tied for second among universities for most National Science Foundation nanotechnology grants in that time period.

Nanotechnology awards

Sponsoring organizations

Air Force Office of Scientific Research, American Chemical Society Petroleum Research Fund, Defense Advance Research Projects Agency, Department of Energy, Federal Aviation Administration, IBM Corporation, Illinois Department of Commerce and Community Affairs, Industrial Technology Research Institute, Korea Research Foundation, Mitsui Chemical, National Aeronautics and Space Administration, National Institute of Standards and Technology, National Reconnaissance Office, National Science Foundation, Office of Naval Research, Rockefeller Brothers Fund, Inc., Unilever, Universal Technology Corporation, US Display Consortium

Biomedical engineering

Phillip Messersmith

Chemical engineering

Linda Broadbelt, Ilya Koltover, Harold Kung, Julio Ottino, Randall Snurr

Civil and environmental engineering

Jan Achenbach, Zdeněk Bažant, Isaac Daniel, Jean-Francois Gaillard, Leon Keer

Engineering sciences and applied mathematics

Stephen H. Davis, Alexander Golovin, Michael Miksis

Electrical and computer engineering

Manijeh Razeghi

Materials science and engineering

Mark Asta, Michael Bedzyk, Robert Chang, Yip-Wah Chung, Vinayak Dravid, David Durand, Morris Fine, Michael Graham, Mark Hersam, D. Lynn Johnson, Laurence Marks, Gregory Olson, Monica Olvera, David Seidman, Samuel Stupp, Peter Voorhees, Hans Weertman, Julia Weertman, Bruce Wessels

Mechanical engineering

Ted Belytschko, L. Catherine Brinson, Kornel Ehmann, Horacio Espinosa, Jung-Hoon Lee, Seth Lichter, Wing Liu, Neelesh Patankar, Rodney Ruoff, Qian Wang