

Northwestern

Nanotechnology at Northwestern University

Collaborating to pursue the next frontier of science and solve the world's most pressing problems

With a multi-disciplinary approach, Northwestern is on the forefront of nanoscience with notable discoveries. Researchers and professors from four Northwestern schools – Weinberg College of Arts & Sciences, Kellogg School of Management, Feinberg School of Medicine and McCormick School of Engineering & Applied Science – work together on this endeavor. Northwestern University's cutting-edge nanotechnology research impacts medicine, healthcare, environmental science and more, and includes:

200+ Faculty Members

32 Departments

19 Research Centers and affiliates within Northwestern dedicated to Nanoscience, including the IIN

4 Schools

1 Nobel Prize winner, Sir Frasier Stoddart

International Institute for Nanotechnology

Lead by Chad Mirkin, the [International Institute for Nanotechnology](#) (IIN) catalyzes and supports world-class interdisciplinary nanoscience research to address the world's most pressing problems in medicine, environmental science, information technology, energy, homeland security, food and water safety, and transportation. The IIN is made up of world-renowned researchers and their students, forward-thinking industry leaders and outstanding administrators. Under the leadership of Chad Mirkin, the IIN represents over 190 faculty from 32 departments and 4 schools at Northwestern University and collaborators from universities and companies around the world. Today, the IIN represents and unites more than \$1 billion in nanotechnology research, educational programs, and supporting infrastructure. Its economic impact includes launching more than 1,800 products and systems have been commercialized worldwide, launching 20 start-up companies and attracting more than \$700 million in venture capital funding.

Simpson Querrey Institute for Bionanotechnology

The [Simpson Querrey Institute for Bionanotechnology](#)'s (SQI) mission is to combine the expertise of faculty members from Northwestern's Feinberg School of Medicine, McCormick School of Engineering and Applied Sciences, and Weinberg College of Arts and Sciences in a collaborative environment and to foster cross-disciplinary research initiatives that cannot take place in isolation. Harnessing the vision of Director Sam Stupp, SQI promotes translational bionanotechnology research that has the potential to revolutionize regenerative medicine and produce targeted therapeutics. The SQU faculty members work on developing tools for detecting and treating cancer, reversing paralysis due to spinal cord injury, regenerating vital organs, repairing the vascular system, and developing targeted therapeutics for dreaded diseases such as Alzheimer's, atherosclerosis, diabetes, and Parkinson's.

For more information on nanotechnology at Northwestern University, see here <https://news.northwestern.edu/for-journalists/press-kits/nanotechnology/>.