

**NANOSCIENCE &
NANOTECHNOLOGY
INSTITUTE @ UI**



Administrative support for the institute is located in the **Iowa Advanced Technology Laboratories (IATL)**. The IATL furthers the University of Iowa's tradition of encouraging interdisciplinary research.

The IATL also houses the Center for Global and Regional Environmental Research (CGRER) and the Optical Science and Technology Center (OSTC). There is great potential for synergistic activities with both CGRER and OSTC.



Subscribe to the **NANO@IOWA** biweekly newsletter by emailing us at nni@uiowa.edu

NNI is an interdisciplinary research center supported by the Department of Chemistry and the College of Liberal Arts and Sciences.



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The Nanoscience and Nanotechnology Institute (NNI) at the University of Iowa was established in 2006.

NNI focuses on issues related to applications and implications of nanoscience and nanotechnology in environmental processes and human health, as well as the fundamental properties of nanomaterials. The institute includes a core group of faculty and staff from the colleges of Liberal Arts and Sciences, Engineering, Pharmacy, Medicine and Public Health involved in nanoscience and nanotechnology. NNI provides a venue where researchers from all disciplines of science and engineering can gather to share ideas and discuss their views and prospects of nanoscience, nanoengineering, nanomedicine and nanotechnology. NNI has partnered with a number of institutes and centers on campus on cutting-edge research and societal issues, including those related to translational medicine and the societal implications of nanoscience and nanotechnology.

For more details about NNI, we invite you to visit our website at <http://www.uiowa.edu/~nanotech> or contact us at nni@uiowa.edu.

-Vicki Grassian, Co-Director
-Sarah Larsen, Co-Director

Our Mission:

To facilitate interdisciplinary research in nanoscience and nanotechnology at UI.

Our Goals:

To engage, coordinate and encourage collaborations among researchers on campus.

To pursue external funding opportunities for nanoscience and nanotechnology research.

To develop educational resources and encourage future scientists in the area of nanoscience and nanotechnology.

To support outreach efforts to local, regional and statewide communities.

The Nanoscience and Nanotechnology Institute at UI

CORE MEMBERS

Core members of NNI are from multiple academic departments and colleges, including those listed below.

COLLEGE OF ENGINEERING

Biomedical Engineering
Chemical and Biochemical Engineering
Civil and Environmental Engineering
Electrical and Computer Engineering
Mechanical and Industrial Engineering

COLLEGE OF LIBERAL ARTS & SCIENCES

Chemistry Physics & Astronomy
Biochemistry English

COLLEGE OF MEDICINE

Anatomy & Cell Biology
Radiology Microbiology
Internal Medicine
Positron Emission Tomography

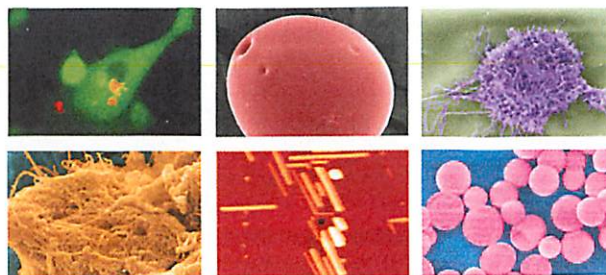
COLLEGE OF PHARMACY

Medicinal Natural Products
Pharmaceutics

COLLEGE OF PUBLIC HEALTH

Occupational & Environmental Health

COLLEGE OF DENTISTRY



FOCUS AREAS



Development and Applications of Nanoscience and Nanotechnology in Health and Environmental Sciences

- Drug Delivery
- Disease Detection
- Imaging
- Green Chemistry
- Energy
- Sensors
- Sustainability
- Fuel Cells
- Bioanalytical Assays
- Environmental Remediation
- Decontamination

Implications of Nanoscience and Nanotechnology in Health and Environmental Sciences

- Nanotoxicology
- Environmental Health
- Air Quality
- Workplace Environment

Development of Materials and Theory for Applications of Nanoscience and Nanotechnology

- Synthesis of Nanomaterials
- Characterization of Nanomaterials
- Defense Related Applications
- Condensed Phase Matter at the Nanoscale