

Research Centers and Labs

Research is an integral part of a strong academic experience and a critical priority in NJIT's 2025 Strategic Plan. The university aims for national and international prominence in research through new discoveries in areas ranging from medical sensors and devices to robotics, to nanotechnology, to cybersecurity, to next-generation materials, among other topics of vital importance in basic, applied and translational research.

The 150 new faculty members we have hired over the past five years strengthen our efforts considerably. They include experts on topics such as biomedical sciences and engineering, sensors, energy, novel materials, machine learning, data analytics, and virtual reality. They arrive with impressive track records in securing grants from key funding agencies such as the National Science Foundation, the National Institutes of Health, the Department of Energy, and the U.S. Department of Defense. We are confident that their participation in our multidisciplinary centers will help NJIT reach its ambitious external funding benchmarks that has already more than doubled over the last five years.

To achieve our research and educational goals, the university's strategic plan calls for seamless multidisciplinary and transdisciplinary research collaborations and technology innovation-based entrepreneurship among faculty, staff and students, who all have a central part to play in advancing science, engineering and technology to fuel societal progress. NJIT's nexus of core research facilities involving York Center, Life Sciences and Engineering Center and Microfabrication Innovation Center is designed to accelerate game-changing collaborations with new teaching and research labs, rooms to conduct projects and common areas where faculty and students can socialize and share ideas.

The NJIT's 2025 Research Strategic Plan organizes five research clusters of high significance and societal impact aligned with the global trends in science and technology research and development. Comprised of core and transdisciplinary basic, applied and translational research interests, the five clusters in NJIT research enterprise include:

- Bioscience and Bioengineering (<https://centers.njit.edu/research-areas/bioscience-and-bioengineering/>)
- Data Science and Management (<https://centers.njit.edu/research-areas/data-science-and-management/>)
- Environment and Sustainability (<https://centers.njit.edu/research-areas/environment-and-sustainability/>)
- Material Science and Engineering (<https://centers.njit.edu/research-areas/material-science-and-engineering/>)
- Robotics and Machine Intelligence (<https://centers.njit.edu/research-areas/robotics-and-machine-intelligence/>)