

NJIT

New Jersey's Science &
Technology University

THE EDGE IN KNOWLEDGE

Bachelor of Science in Industrial Design



New Jersey School of Architecture

New Jersey Institute of Technology

WHY STUDY INDUSTRIAL DESIGN?

Industrial designers blend the fields of art, business and engineering to design products used every day by businesses and consumers. These designers are responsible for the style, function, quality and safety of most manufactured goods. The enormous range of products that are mass-produced and the growing complexity of the support and information systems surrounding them create unlimited options for careers in industrial design. Time Magazine has identified industrial design as one of the 15 hottest professions of the decade based on the ever-increasing demands by consumers and businesses for new and upgraded products.

Experts say that design is the key to reinvigorating the manufacturing field in the United States. With the globalization of the market-place and outsourcing, design has become the chief characteristic that defines a breakthrough product. Industrial designers have a critical role to play in developing products that distinguish themselves through both technological innovation and superior design.

WHY STUDY INDUSTRIAL DESIGN AT NJIT?

New Jersey School of Architecture has been educating design professionals for more than three decades. The new program builds on the school's national preeminence in computer-aided design (CAD) and expands that expertise to include computer-aided manufacturing (CAM). In addition, the curriculum draws from the full resources of New Jersey's science and technology university for expertise in business, engineering, the humanities and social sciences, and computer science.

The school recently opened its new FABLAB in which students can translate their designs into precise 3-D prototypes, parts, or models. The FABLAB provides an array of hardware that is computer numerically controlled (CNC) laser cutters for acrylic and heavy paper, 3-D printers that build objects from layers of plaster, and a CNC router that can mill such materials as wood, foam and metals. Working in concert with special 3-D design software, the machines translate students' concepts into three-dimensional prototypes or models.

WHAT SKILLS DOES AN INDUSTRIAL DESIGNER NEED?

Industrial design firms list these as the top five skills they seek:

- Creative problem-solving skills
- Ability to convey concepts with quick sketches
- Good verbal and written communications skills
- Computer proficiency in vector based or 3-D programs
- Mechanical aptitude and a basic understanding of how things work

WHAT WILL I STUDY?

The BS in Industrial Design provides a broad background in design and aesthetics, computing, communications skills and the humanities, and manufacturing processes, materials and production methods. The program emphasizes studio design with individual as well as team projects/

WHAT KIND OF CAREER OPPORTUNITIES WILL I HAVE?

Industrial designers work in design firms, independent practices, manufacturing companies, and communications and entertainment businesses, in such positions as:

- Communication Designer
- Equipment Designer
- Electronics Designer
- Exhibit Designer
- Furniture Designer
- Interior Designer
- Product/Packaging Designer
- Toy Designer
- Vehicle Designer

PROGRAM SUMMARY

Degree Awarded: Bachelor of Science in Industrial Design

Program Length: Four years

Program Objective: Prepare students to track products from concept and design through manufacturing and every day use, and to develop innovative solutions to real-life technical and economic needs

IS FINANCIAL AID AVAILABLE?

The Office of Student Financial Aid Services helps to provide NJIT students with every opportunity to obtain funding to support their educational costs.

The university encourages all students to apply for financial aid. <http://www.njit.edu/admissions/financialaid/index.php>

NJIT AT A GLANCE

- New Jersey's Science and Technology University, founded in 1881.
- Enrollment of just over 8,000 undergraduate and graduate students in six schools small-college intimacy with big university resources.
- 45-acre campus with a recently-completed \$83-million construction program featuring a new Campus Center.
- A Princeton Review" Best Value College and "Top 25 Most Connected College."
- Ranks 8th in the nation in diversity with students from more than 100 countries
- 13:1 faculty-student ratio.

FOR FURTHER INFORMATION :

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TO APPLY:

Office of Undergraduate Admissions, 1-800-925-NJIT

Or apply on line:

http://www.njit.edu/admissions/undergrad/undergrad_apply.php