DISCOVER MATERIALS ENGINEERING AT NJIT

Materials Engineering is the study of the mechanical, physical and chemical properties of engineering materials, such as metals, ceramics, polymers and biomaterials. A materials engineer predicts and controls material properties through an understanding of atomic, molecular, crystalline and microscopic structures of engineering materials. As an essential member of an engineering team, the materials engineer is responsible for synthesis and processing of advanced materials.

A **TOP 100** NATIONAL UNIVERSITY

- QS World University Rankings[®] 2021 TOP 50 BEST VALUE COLLEGE

- The Princeton Review **#1** NATIONALLY IN STUDENT ECONOMIC UPWARD MOBILITY **TOP 2%** For return on investment

- PayScale.com

- Forbes

OTTO H. YORK DEPARTMENT OF CHEMICAL AND MATERIALS ENGINEERING NEWARK COLLEGE OF ENGINEERING

WHERE DO MATERIALS ENGINEERS WORK?

COMMON JOB TITLES

- Materials Design Engineer
- Materials Process Engineer
- Research Engineer
- Technical Sales

TOP COMPANIES

- **BASF**
- Boeing
- Corning Glass
- DowDupont
- ExxonMobil
- GE GE
- General Dynamics
- HP
- Pratt & Whitney
- Procter & Gamble
- Tesla
- **3**M

\$90,000 AVERAGE MID-CAREER SALARY

- Bureau of Labor Statistics, 2020

MATERIALS ENGINEERING B.S. DEGREE AT NJIT

BUILDING THE FUTURE

NJIT's B.S. in Materials Engineering curriculum, in the Otto H. York Department of Chemical and Materials Engineering, emphasizes hands-on learning combined with strong fundamentals to develop skills in problem-solving, engineering analysis and design.

CUTTING-EDGE RESEARCH AND STATE-OF-THE-ART FACILITIES

- Biomaterials
- Energy Conversion and Storage
- Electronic, Photonic and Semiconductors
- Polymeric and Soft Matter
- Materials Theory and Simulation
- Nanotechnology, Particle Technology and Composites

DEGREE OFFERINGS

- Five-Year Co-Op Program
- Faculty-mentored Undergraduate Research in biomaterials, catalytic materials, computational materials design, energetic materials, materials for energy storage and generation, nanomaterials, polymers, porous materials, 3D printing, soft materials
- Five-Year B.S./M.S. Program
- Interdisciplinery Programs offered: B.S., M.S. and Ph.D. degrees

TOTAL CREDIT HOURS - 120

- Science and Mathematics core credit hours: 39
- Materials Engineering core credit hours: (41 mechanical behavior, thermodynamics, transport phenomena, biomaterials, metallurgy, soft materials, materials processing, materials design)
- State-of-the-Art Materials Engineering Laboratories

Learn More:

David Venerus, Director, Materials Engineering Program, venerus@njit.edu Lisa Axe, Department Chair, axe@njit.edu

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