

# ENGINEERING

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The Department of Engineering at Norfolk State University offers the following degree programs:

- B.S. Electrical and Electronics Engineering
- B.S. Optical Engineering
- M.S. Electronics Engineering

## The Engineering Advisory Board

The Department's Engineering Advisory Board is composed of national leaders from government, universities, and industry. The Advisory Board provides vision and insight for all departmental initiatives conducted by the faculty.

### The Mission Statement

The mission of the Department of Engineering is to empower students with the knowledge, skills, and abilities needed for successful professional careers in engineering; to encourage innovation, creativity and an entrepreneurial spirit; to instill a sense of community responsibility; and to develop leaders for a technology-driven global society.

<https://www.nsu.edu/cset/engineering/index> (<https://www.nsu.edu/cset/engineering/index/>)

## Accreditation

In order to provide the best possible undergraduate education, the Department embraces the standards established by ABET, the sole accrediting agency for engineering programs in the United States. The Bachelor of Science degree in Electrical and Electronics Engineering at Norfolk State University is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org> (<https://www.abet.org/>), under the General Criteria and the Electrical and Electronic Engineering Program Criteria. The Bachelor of Science degree in Optical Engineering at Norfolk State University is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org> (<https://www.abet.org/>), under the General Criteria and the Optical Engineering Program Criteria.

## Overview

The Department of Engineering offers its students curricula that focus on key concepts and latest developments in the Electronics and Optical engineering fields. In addition, the department offers interdisciplinary curricula for a minor in Bioengineering.

The Engineering degree programs offer challenging and rigorous curricula, excellent faculty, and a state-of-the-art infrastructure that provide students exciting opportunities to conduct research at NSU and major research institutions. The Department's areas of research include diamond electronics and photonics, nanoengineering, microelectronics, thin films, photovoltaic materials and technologies, photonics, quantum optics, bioengineering, cardiac modeling and simulation, and neural engineering.

### Research Facilities

The Department of Engineering offers its students curricula that focus on key concepts and latest developments in the Electronics and Optical engineering fields. In addition, the department offers interdisciplinary curricula for a minor in Bioengineering.

The Department's teaching and research facilities include two cleanrooms and several research laboratories that are equipped with state-of-the-art infrastructure for:

- Atomic layer Deposition
- Pulsed Laser Deposition
- Chemical Vapor Deposition
- RF/DC Magnetron Sputtering
- Photoluminescence
- Electron Beam Lithography
- Micro-Raman Spectroscopy
- FE/SEM/EDAX/STEM Microscopy
- Atomic Force Microscopy
- Electrical/Optical Characterization
- Neural Signal Recording
- Functional Neuroimaging

## Engineering Programs

- Electronics Engineering, M.S. (<https://catalog.nsu.edu/graduate/science-engineering-technology/engineering/electronics-ms/>)