

RAIL TRANSPORTATION ENGINEERING, B.S.

Begin Campus: Any Penn State Campus

End Campus: Altoona

Program Description

The Bachelor of Science in Rail Transportation Engineering (RTEAL) will provide students with the necessary skills for careers in the rail freight and passenger transportation industries. The RTEAL degree provides a solid background in engineering design, but also focuses on the maintenance and management skills required by the rail industry. The program provides a breadth of knowledge in the major areas associated with the design, operation, and maintenance of rail systems, including the engineering of rail and track structures, basic rail operating practices and safety, wheel/track dynamics, construction and maintenance of railroad infrastructure, and basic railroad communications and signals. Laboratories are used throughout the RTEAL curriculum to provide students with experiences in the field with actual rail equipment, and extensive team-based laboratory activities are used to develop the leadership qualities that are essential of rail professionals. In order to prepare students for the occupational challenges associated with careers in the rail industry, careful and candid discussions of career possibilities and working environments typical of railway professionals are provided throughout the RTEAL program.

What is Rail Transportation Engineering?

Rail Transportation Engineering (RTE) prepares students for careers in freight and transit rail. The curriculum is based on civil engineering with emphasis on rail transportation.

MORE INFORMATION ABOUT RAIL TRANSPORTATION ENGINEERING (<https://altoona.psu.edu/academics/bachelors-degrees/rail-transportation-engineering/program-overview/>)

You Might Like This Program If...

You are seeking a technological career in a robust industry.

MORE INFORMATION ABOUT WHY STUDENTS CHOOSE TO STUDY RAIL TRANSPORTATION ENGINEERING (<https://altoona.psu.edu/academics/bachelors-degrees/rail-transportation-engineering/>)