

Packaging Engineering at Rutgers

Packaging Engineering Degrees Offered and Curricular Options

BS Applied Sciences in Engineering

Packaging Engineering major

Option:

Packaging Engineering certificate is available in all engineering disciplines.

Packaging Engineering Highlights

- » Only US packaging program housed within an engineering school.
- » Faculty members include senior executives from major beauty, consumer product, pharmaceutical, and food manufacturing corporations.
- » State-of-the-art laboratory facilities for 3-D design, modeling, and tool cutting software to create original product packaging.
- » 100% graduate employment over the past 10 years.

Packaging engineers formulate and construct innovative packing materials that increase the functionality of a package and its ability to contain its product and withstand certain temperatures and the distribution process. They also address factors related to shelf life, tamper resistance, and quality. Packaging engineers typically collaborate with colleagues in research and development, manufacturing, marketing, graphic design, and regulatory departments to address technical and marketing challenges.

The Rutgers Packaging Engineering program is the second oldest in the nation and has the distinction of being the only packaging program housed within an engineering school. Student learning includes a multi-disciplinary curriculum drawing from the fields of chemical, industrial, materials, and mechanical engineering, as well as hands-on research, control testing, and product design with actual industry materials, products, and lab equipment.



WHAT CAN YOU DO WITH A PACKAGING ENGINEERING DEGREE?

Development engineer
Manufacturing engineer
Process engineer
Project engineer
Packaging engineer
Design analyst
Product consultant
Sustainability engineer



100%
EMPLOYMENT
PAST
10 YEARS

"I am learning how to design products in ways that reduce waste, streamline manufacturing costs, and minimize the impact on the environment."

Michael Lee

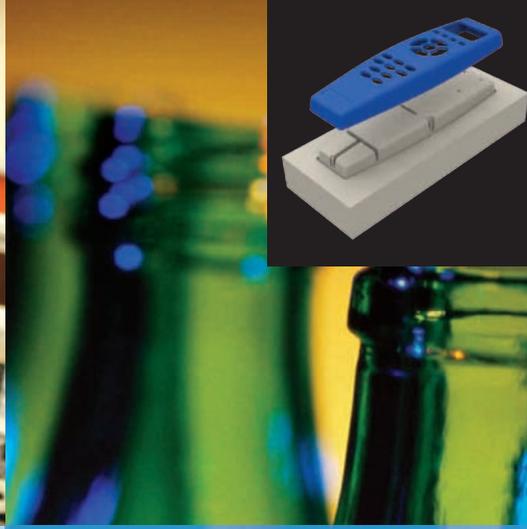
"The Packaging Engineering program has ample opportunities for students to get out of the classroom and experience the field and land a job."

Miles Borgeson



RUTGERS
School of Engineering

For more information, visit
packaging.rutgers.edu



Packaging Engineering at Rutgers



Hands-On Experience

Students gain hands-on business and engineering experience through courses including innovative packaging design and packaging testing and evaluation, along with internships and co-op programs, where they can earn up to six degree credits for work experience in an industrial environment and make valuable networking connections—often offered full-time positions after graduation.



Packaging Out Front

The program is regularly retained by corporations to conduct durability and reliability testing on commercial product packaging, giving students hands-on professional experience.

Research Opportunities

- Material identification, characterization, and comparison
- Shelf life evaluation
- Environmental sustainability
- Analytics
- Marketing
- Product design
- Mathematical modeling
- Distribution testing
- Material testing

Program Highlights

The packaging engineering curriculum is distinctive in that student learning includes engineering fundamentals and hands-on discovery using actual products, equipment, and real world situations. The program has established partnerships with leading packaged goods companies who supply Rutgers with products for testing and evaluation.

Packaging Labs

Actual products are used in examining the functionality of a package's properties and its ability to hold up during distribution. Using state-of-the-art equipment and tools, students gain valuable experience testing product viability and preparing analysis reports for corporate clients.

Innovation and Design

Using reverse engineering techniques, this course challenges students to use all their knowledge related to manufacturing, materials, and marketing to analyze actual products and understand how and why they were successful.

Senior Design Projects

Students work with corporate partners to develop a packaging product that is functional, transportable, unique, and meets consumer standards. This final project is the culmination of a student's learning and experience with a focus on design, innovation, collaboration, and presentation.



Established in 1864, the School of Engineering at Rutgers, The State University of New Jersey, is home to educational opportunity and innovation, pursuing work of enormous relevance to society and the economy. With seven academic departments and world-renowned research centers, the School of Engineering currently enrolls more than 3,300 undergraduate and 700 graduate students, and generates more than \$60 million in research funding annually.

For more information, visit packaging.rutgers.edu

