



M.S. in Product Design

The M.S. in Product Design equips engineers and scientists to create real-world products, from cosmetics to pharmaceuticals. Students gain technical mastery in formulation science and materials design while building business fluency in innovation management and entrepreneurship. Through coursework, industry-focused concentrations, and a capstone project, graduates learn to transform scientific ideas into market-ready products and launch their careers as product innovators.

WHAT TO EXPECT

- **Build** expertise in soft matter, colloids, biomaterials, and supramolecular chemistry. Learn the analytical methods needed to design, test, and optimize complex formulation-based products.
- **Develop** the business acumen to bring ideas to market. Courses in innovation management, entrepreneurship, and project leadership prepare you to translate technical discoveries into successful products.
- **Specialize** in a sector that matches your career goals by selecting targeted electives and applied coursework.
- **Complete** an industry-guided capstone that demonstrates a product concept ready for scale, bridging classroom learning with real-world application.

CONCENTRATIONS

- **Cosmetics and Consumer Goods:** Formulation design, product safety, performance testing, and materials selection for everyday products.
- **Pharmaceuticals and Biopharma:** Biomaterials, tissue/cellular engineering perspectives, and regulated product development.
- **Nanotechnology:** Functional materials, bionanotechnology, and instrumentation for nanoscale product innovation.

FAST FACTS



**Develop
Industry
Connections**



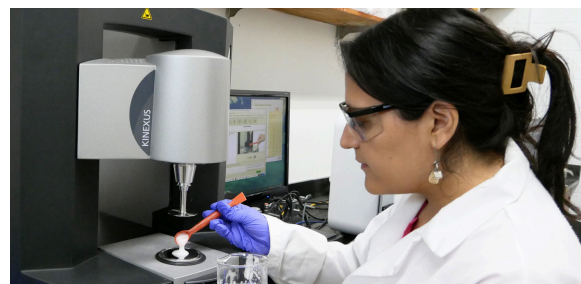
**\$10 Trillion
Chemical
Product Industry**



**1-year
Research
Based Program**

This program is a recipient of the **Procter & Gamble** Fund Higher Education Grant.

An engineering bachelor's degree is **not required**.





CURRICULUM SNAPSHOT

- **Technical Core:** 9 credits
- **Innovation and Entrepreneurship Core:** 9 credits
- **Sector Concentration:** 9 credits
- **Industry Capstone Project:** 3 credits

CAREER OUTCOMES



**Biomaterials
Engineer**



**Formulation
Chemist**



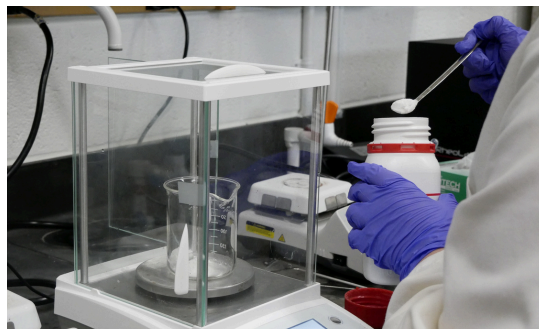
Process Engineer



**Advanced Materials
Scientist**



**Formulation
Scientist**



“I have been loving the product design program because I am learning information on the molecular level that I feel is extremely important to formulation, innovation, and overall understanding of the scientific process. It has made me think about science differently and has definitely strengthened my knowledge upon cosmetics and cosmetic formulation..”

- Allison Carter, Master's Student



For more
information



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