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The availability of career opportunities is outstanding in this department. Because of our connection with Washington Pulp and Paper Foundation, students graduate with a summer internship and a post-graduation career. In addition, the student chapter of the Technical Association of the Pulp and Paper Industry holds workshops for networking skills, resume help, and other career advancement related opportunities so that students feel more secure and confident when thinking about next steps after graduation.

-Jaja Reduque, Class of 2024

### ACTION STEPS

Learn more at:  
[sefs.uw.edu/students/undergraduate/sbse-major](https://sefs.uw.edu/students/undergraduate/sbse-major)

We'd love to hear from you! Contact us with questions or to set up an appointment with one of our academic advisers:  
[sefs.uw.edu/students/undergraduate/undergraduate-advising](https://sefs.uw.edu/students/undergraduate/undergraduate-advising)

We acknowledge that we are on the land of the Coast Salish peoples, land which touches the shared waters of all tribes and bands within the Suquamish, Tulalip and Muckleshoot nations.

**W** SCHOOL OF ENVIRONMENTAL & FOREST SCIENCES  
UNIVERSITY of WASHINGTON  
College of the Environment

COLLEGE OF THE ENVIRONMENT  
UNIVERSITY of WASHINGTON

**W**

BACHELOR OF SCIENCE

# SUSTAINABLE BIORESOURCE SYSTEMS ENGINEERING

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The SBSE program gave me a chance to learn and grow through projects and internships. I was well equipped to succeed after graduation and entered the workforce with a strong network of supporters.

**Marshelle Slayton**, Class of 2012

As a Sustainable Bioresource Systems Engineering (SBSE) student, you'll gain the tools to engineer a more sustainable future. You'll apply science fundamentals, creative problem-solving, and expertise in bio-based processes to tackle global challenges like climate change and plastic pollution in the oceans. Through coursework in process engineering, materials science, and sustainability, you'll build a versatile foundation for designing innovative, low-impact systems. You'll also learn to create economically viable solutions that consider the social and cultural impacts of engineering in the real world.

**DEGREE: BS**

## COOL COURSES

### **SBSE 406: Natural Products Chemistry**

Learn how to produce fuels and chemicals using materials like wheat straw or trees instead of oil. Explore the chemistry of natural resources and discover methods for making sustainable fuels, chemicals, and biodegradable plastics.

### **SBSE 480/481: SBSE Capstone**

Tackle a real-world engineering challenge where you'll balance the technical details with economic and social considerations to create smart, sustainable solutions. Then, present your work to both UW experts and industry professionals!



SBSE students won first place in the 2024 Alaska Airline Environmental Innovation Challenge with the bio-based products they developed in their senior capstone course.

## IMMERSIVE RESEARCH OPPORTUNITIES

Produce fuels and chemicals from multiple biomass resources, including agriculture residuals and invasive plant species, in the Biofuels and Bioproducts Laboratory.

Produce and analyze unique biobased products, including nanocellulose based packaging materials, using pilot scale equipment in the Fiber and Bioresource Science Laboratory.



## GRADUATES' NEXT STEPS

After graduation, many of our students go directly into highly competitive graduate and professional schools. Graduates also go into careers with primary manufacturers, engineering firms, and equipment and process providers. Early career positions include:

- Susana Muller, Class of 2023  
Technical and Quality Assurance Engineer, Nippon Dynawave Packaging Company
- Ryan Setara, Class of 2023  
Account Representative, Buckman Chemicals
- Rachael Johnson, Class of 2022  
Process Engineer, Irving Tissue
- Jackie Kobal, Class of 2021  
District Sales Representative, Nalco Water
- Taylor Buell, Class of 2021  
Associate Scientist, SoRSE Technology
- Amy Clingman, Class of 2020  
Application Engineer, Kubota Membrane U.S.A

## SCHOLARSHIPS AND FUNDING

In addition to University and College scholarships, the School of Environmental and Forest Sciences offers a broad spectrum of scholarship support including tuition, field experiences and travel to conferences.

