



# Sustainable Biomaterials - Process and Product Design (SUBO)

*Major in The Department of Forestry and Natural Resources at Purdue University*

## Do you want to help others live sustainably? Do you:

- Like applied engineering and technology?
- Enjoy working with people?
- Have initiative and organizational ability?
- Love to create things?
- Look for variety and challenge?
- If you find yourself saying “Yes!”, consider majoring in **SUSTAINABLE BIOMATERIALS.**

## Career Opportunities:

- If you follow this path, by the time you graduate, you will understand material science and will have technical expertise in product development, production, and quality control—with an environmental perspective.
- You might work in industries that manufacture hardwood lumber and veneer, wood furniture and cabinets, or other wood based products.

## Your job title might be:

- Production Manager
- Product Designer or Developer
- Marketer
- Industrial Engineer or Technologist

## Career Preparation on Campus

Employers value a combination of experience and education.

So, your time with Purdue might include:

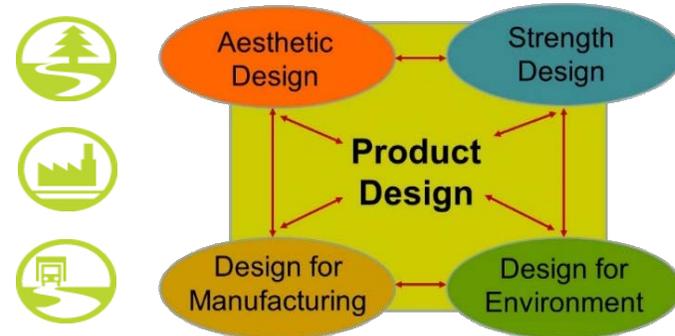
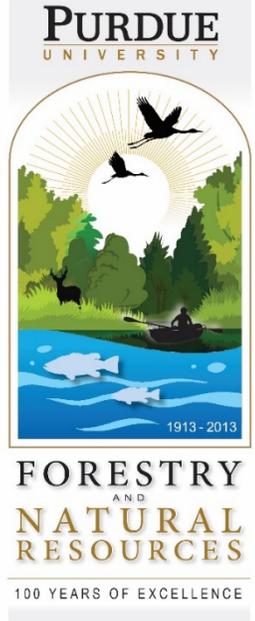
- Summer industrial experience
- Course-related laboratories
- Seasonal work in your discipline
- Study abroad programs

## What are sustainable biomaterials?

- Biological materials in a variety of scales and types.
- WOOD is the most important sustainable biomaterial - RENEWABLE, RECYCLABLE and BIODEGRADABLE.
- The promotion of appropriate utilization of sustainable biomaterials will contribute to sustainability.

## Why Should Student Pick this Major?

- Strong employment opportunities
- Competitive wages
- Growing sectors with global impact
- Involvement in research
- Connectivity with industry
- Variety of careers to match your talent



*The goal of Sustainable Product Design is to familiarize students with product development, rapid prototyping and basics of manufacturing.*





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## **Students working in the Wood Research Laboratory are involved in research to:**

- Study product and process engineering of sustainable biomaterials
- Research environmental applications
- Develop novel, cost-effective test methods for structural wood-based products
- Research the use, reuse, and care of wood based production
- Use small diameter logs and residue materials for school furniture and other innovative products
- Look inside the log and optimize yields

## **Additional extracurricular activities might include the following:**

- The Forest Products Society

At Purdue, join the student chapter of the industry's professional organization, the Forest Products Society. Benefits include professional experience and exposure, networking opportunities, access to job postings, travel, and receipt of the professional publication Forest Products Journal.

- The Wood Research Laboratory

This laboratory develops new knowledge about wood and wood-based materials. It emphasizes eastern hardwood tree species and applications to the lumber and veneer products industries manufacturing wood furniture, cabinets, and architectural applications. Undergraduate and graduate students learn from the laboratory through conventional academic programs and through outreach programs and activities that connect them with manufacturers and users of wood products in the region.

## **Faculty leading program:**

Dr. Eva Haviarova

Dr. Rado Gazo

[www.purdue.edu/woodresearch](http://www.purdue.edu/woodresearch)

## **For more information contact:**

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