We are a leading research organisation in the area wood and wood-related renewable resources in Europe. Our core competences are materials research and process technology along the complete value chain – from raw material to finished products. More than 120 highly qualified researchers are developing methods and basics and perform applied research on the economy-science interface, in order to enable resource-efficient management in the circular bioeconomy.

For support in the numerous research projects we are looking for a:

Master thesis (f/m/d)

Starting date: As soon as possible (fixed-term contract: 6 months)

Topic: Biomass fractionation of agricultural residues for biorefinery valorization using green chemistry

Your responsibility:

You will develop sustainable fractionation strategies for agricultural residues such as corn stover. By combining mild pretreatment technologies with green, bio-based solvents, you will investigate the separation of valuable biomass components while minimising unwanted degradation products. You will optimise the process using Design of Experiments and characterise the obtained fractions, including their enzymatic conversion into fermentable sugars.

Your qualifications:

- Ongoing master's degree in biotechnology, chemistry, or process engineering
- Theoretical and practical knowledge in biomass and biomass conversion technologies is an advantage
- Strong interest in sustainable processes and applied research
- Structured, reliable, and independent working style

Your benefits:

- Flexible and family friendly working hours (flexitime, time off) with possibility for home office
- An international, motivated team and a highly active scientific environment
- Work in basic and industry-related projects
- Modern laboratories and pilot plants
- Attractive working environment and modern offices
- Public transport connection and parking spaces
- Gross monthly salary based on 20h/week from EUR 700,00 (14 x per year)

Place of employment:

Linz

Contact:

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Please send your application via e-mail to: E-Mail: s.espana-orozco@wood-kplus.at