Enhancement of mechanical properties of molded pulp

Background: Join our cutting-edge research team in collaboration with HP's 3D printing unit in Sant Cugat del Vallès. We are seeking an innovative and dedicated intern to contribute to a groundbreaking project focused on enhancing the mechanical properties of molded pulp for packaging applications.

Project description: This internship involves developing novel pulp formulations and integrating enzyme-assisted technologies to create superior molded pulp products. The selected intern will be involved in:

- Implementing enzyme-assisted processes for pulp modification (pilot scale).
- Designing and producing molds for pulp casting (advanced HP's own technology).
- Optimizing dewatering and drying of molded pulp products through pulp modification and mold adjustments.
- Producing and testing the final molded pulp products.

Required skills and/or qualifications:

- Bachelor's students in Chemical Engineering, Mechanical Engineering or Industrial Engineering.
- Master students in Industrial Engineering.
- Interest in sustainable materials, green technologies, and computational fluid dynamics.
- Willingness to perform hands-on experiments in laboratories and pilot plants.

Remuneration: 8 €/h

Dedication: 350 h

Positions: 1