# Master Thesis

## Technical Lignins in Polyurethane Foams

**Scientific background of the study**

The goal of this study is to develop polyurethane-based foams reinforced with technical lignins.

This research is a part of **FLIPPR²** project that specializes on the development of innovative, knowledge based utilization ways for technical lignins, a major co-products from chemical pulping. Utilization of lignin in value-added products not only provides economical benefits, but also assures a higher resource efficiency of the biorefinery processes making them more attractive compared to conventional petroleum-based refinery industry.

**Main Tasks**

- Lab work on foaming reactions and material characterization using common analytical techniques
- Analysis and interpretation of the results obtained
- Presentation of the results at project meetings

**We offer**

- Minor employment (geringfügig) 440 € for 6 months
- New facilities, international team (https://boku.ac.at/en/chemie/wpf/forschung/ausstattung-und-infrastruktur)
- Different topics in the field of bio-resources (www.boku.ac.at/en/chemie/wpf)
- Communication with the industrial partners, members of the **FLIPPR²** project (http://www.flippr.at/jart/prj3/flippr/main.jart?rel=de&content-id=1349816440350)
- Work place: UFT Tulln

**For more information please contact:**

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https://boku.ac.at/en/chemie/wpf

More on **Flippr²** Project:
http://www.flippr.at/jart/prj3/flippr/main.jart?rel=en&reserve-mode=active