

April 2022



# Master Thesis

## Chemical Modification of technical Lignins



University of Natural Resources  
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Department of Chemistry



Lignin is a highly abundant aromatic biopolymer with an estimated annual production of 70 million tons worldwide. Despite the large availability of lignin, it is still an underutilized side product of the pulp and paper industry, due to the loss of reactivity during the pulping process.

Through different chemical modifications the reactivity of technical lignins could be increased.

This master thesis aims to investigate the influence of different chemical treatments on the reactivity of technical lignins.

The practical work will include hands-on laboratory work, material characterization by state-of-the-art analytical methods, and material testing in the laboratory and larger scale.



**Intended start:** June / July 2021

**Timeframe:** 5-6 months

**Workplace:** UFT Tulln, Konrad-Lorenz-Straße 24

**If you are interested or have further questions, feel free to contact us! In case of application please include a short *Curriculum Vitae*.**



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