



Three PhD – positions

Department of Chemistry

Chemistry of Renewable Resources



1. Odor reduction in biorefinery products

The PhD project will focus on reduction of immanent odors of lignocellulosic products, such as lignin itself or lignin-based materials. Besides the development of appropriate analytical tools and identification of malodorous compounds, also novel concepts of odor reduction will be explored and tested in cooperation with industry partners.

2. Lignin: Analysis - structure - properties

Lignin is the focus of this PhD thesis. Development of speed methods for lignin characterization and chemical modification and thus establishing structure property relationships for possible applications are central parts. The thesis is placed at the border of organic, analytical and lignin chemistry.

3. Modification of cellulose

The PhD project will focus on equipping cellulosic matrices with metal-complexing properties. This includes synthesis of novel, biodegradable complexing agents, cellulose modification and testing of the cellulosic products, also in cooperation with industrial partners.

Contact: Univ.Prof. Dr. Th. Rosenau, Ao.Univ.Prof. Dr. Antje Potthast

thomas.rosenau@boku.ac.at, antje.potthast@boku.ac.at

Phone: +43-1-47654-77411 or 77471 or 77412

We offer:

Interdisciplinary work, international research environment, state-of-the-art equipment, payment according to BOKU contract B1 30h/week, 2.048 € guaranteed for three years, option for 3.5 years, interaction with industrial partners (FLIPPR² project). <http://www.chemie.boku.ac.at/wpf>

We are looking for:

Postgraduate students (DI, MSc.) in the field of organic or analytical chemistry, pulp and paper science, biotechnology, or related subjects.

Start: April 2017

