

# Besichtigung des Central Lab

## »Biobased Products«

### Produktion der Zukunft – Stakeholderdialog Biobased Industry

Montag, 22. September 2014, 14:00 – 15:30 Uhr

Inffeldgasse 25/C, 8010 Graz

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The Central Lab »**Biobased Products**« was initiated by NAWI Graz, a strategic partnership between Graz University of Technology and University of Graz. Today partners are the Institute of Chemical Engineering and Environmental Technology from Graz University of Technology, the Institute of Chemistry of the University of Graz and the Institute Resources from JOANNEUM RESEARCH Graz.

The main goal of the Central Lab is the intensification of research activities in the field of renewable resources and bio-based products in Graz in order to establish an interdisciplinary research platform which represents a potential partner for national and international cooperations.

The Central Lab has access to research equipment in pilot plant size, a specially adapted safety lab and instrumental analytics.

The expertise of the involved research groups covers a wide range of R&D know-how and lab to pilot-plant size equipment for:

- Process development for Biofuels like Biodiesel, Fischer-Tropsch Fuels and liquefaction, (BtL) of biomass (e.g. BiomassPyrolysisRefinery),
- Chemical and electrochemical modification of natural products,
- Reactive and physical separations (e.g. distillation, I,I-extraction...),
- Development of new biorefinery processes (e.g. Green Biorefinery),
- Extraction (Sc-CO<sub>2</sub> and solvent) and isolation of high value plant ingredients.

A wide range of biobased feed such as algae, medical plants, herbs, residues from food and beverage industries, agricultural by-products and lignocellulosic feed can be processed.

The team furthermore runs highly sophisticated chromatographic and spectroscopic equipment and develops new applied analytical methods in order to identify and characterize biobased material.