

Guided Tour | Information

Tour IV „Refined“

Get to know the DBFZ even better and take part in our visitor tours as part of the 5th Doctoral Colloquium BIOENERGY.

The tour "Refined" includes the following stops/focal points::

- **Hydrothermal processes**

We explore biomass decomposition and conversion under pressure (up to 200 bar) and temperature (up to 350°C). You will see:

- A scaling cascade of batch reactors (0.5L, 10L, 100L)
- Continuous tubular reactor with 0.6-8L/h throughput

- **Separation processes**

The separation and purification of biobased products from aqueous solutions and suspensions is an essential part of biorefineries. We give you an insight into our equipment:

- Decanter centrifuge, screw separator
- Membrane filtration (UF, MF, NF and UO)
- Adsorption columns
- Liquid-liquid extraction
- Thin film evaporator

- **Gasification & Synthesis**

High-quality fuels and chemicals can be synthesised from bio-based synthesis gas (CO + H₂). Our pilot plants for biomass gasification and subsequent synthesis are also part of this tour:

- Fixed-bed and entrained-flow gasifiers
- Synthesis reactors

We are looking forward to seeing you!

Your DBFZ Team