Open subjects for BSc and MSc theses

In general, any application with a thesis proposal dealing with our research lines (see below) will be considered for support, upon an evaluation of its technical and strategic soundness, and taking into consideration the resources availability (tutors time and infrastructure) within our Department. Applications can be sent directly to the contact person of the working groups for consideration.

Moreover, the following subjects are currently open within the research projects of our Department:

"WG Renewable Energy System (RES)"

Contact: Dr. Marcus Eichhorn (marcus.eichhorn@ufz.de)

- MSc. Topic I: "Research and analysis of data of the current energy supply for a selected study area"
- MSc. Topic II: "Estimation of district heating potential from biogas at a national scale"
- BSc. Topic III: "Exploring spatial dimensions of renewable energy resources in Germany"

"WG Bioeconomy and Biomass Resources (BBR)"

Contact: Dr. Alberto Bezama (alberto.bezama@ufz.de)

- M.Sc. Topic I: Development of socio-economic end-point indicators for the bioeconomy in Germany.
    - Defining social issues in German waste management of biobased materials / wood
    - Applying the (modified) UNEP/SETAC guidelines to assess social impacts of recycling
    - Application in a case study: recycling of bio-based materials in Germany
    - Identifying possible aggregation options for the socio-economic indicators to develop end-point indicators
- M.Sc. Topic II: Evaluation of selected decision alternatives for internalization or outsourcing of heat utility services in the context of eco-industrial cooperations in bio-based-industries
    - Efficiency analysis for selected wood and fiber drying processes
    - Technical-economic pre-feasibility studies of efficiency enhancement alternatives for wood and fiber drying processes
    - Analysis of innovative financing schemes for efficiency enhancement alternatives in complex industrial networks
- MSc. /BSc. Topic V: Assessment of woody biomass flows in a regional context – Life cycle inventory and scoping LCA