



The Bioeconomy Science Center (BioSC) is an innovative competence center where the scientific expertise in bioeconomy research and modern infrastructure of the universities Bonn, Düsseldorf and RWTH Aachen as well as the Forschungszentrum Jülich are clustered.

The BioSC offers an integrated concept based on fundamental research linked to applied and industrial research in a range of fields related to the sustainable bioeconomy.

## Research

BioSC clusters all relevant scientific disciplines for the production of biomass and bio-based products and processes in the added-value network bioeconomy. Key topics are the sustainable production of plants as food/feed and biomass, new bio-/chemocatalytical and biotechnological methods and processes for the conversion of renewable raw materials in bio-based products, e.g. fine chemicals, proteins, enzymes, biopolymers, and biofuels.

## Key research areas are:

1. Sustainable Plant Production and Resource Stewardship
2. Microbial and Molecular Transformation
3. Chemical Engineering and Processing of Renewable Resources
4. Economy and Social Implications of the Bioeconomy

The transfer of research results into economic implementation is guaranteed by a close cooperation with industry partners.

## Education

The development and implementation of a sustainable and bio-based economy begins with the qualification of young people. Specialists are already required in all sectors of the knowledge-based bioeconomy. To implement the bioeconomy, a transdisciplinary future work force is of key importance. Therefore, the transfer of excellent basic knowledge and an holistic understanding of the challenges in bioeconomy are core features of the BioSC graduate education program.



## BIOECONOMY SCIENCE CENTER (BIOSC)

### Foundation

- 2010
- 56 Core groups

### Legal status

- Scientific cooperation alliance

### Technology

- Plant phenotyping, bioanalytics, bioinformatics, high-throughput screening/cultivation, iorefineries, omics technologies

### Products

- Food/feed, biobased chemicals, biobased materials, bioenergy

### Funding

- The BioSC is supported on a long-term basis by the state of North-Rhine Westphalia within the framework of the NRW-Strategieprojekt BioSC.

### Contact

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BioSC partners