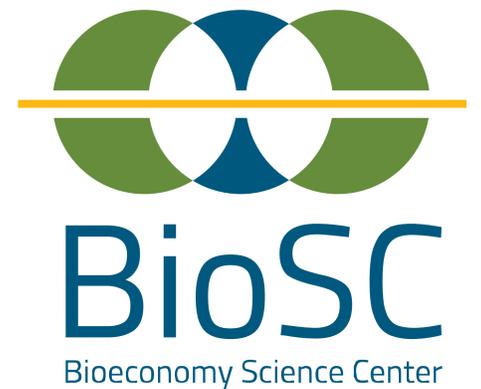


# International Summer School 2023

## Bioeconomy Science Center

[www.biosc.de/summerschool\\_2023](http://www.biosc.de/summerschool_2023)



## Plastic and sustainable bioeconomy. How does that fit?

**May 08<sup>th</sup> – 12<sup>th</sup>, 2023**

**RWTH Aachen | Forschungszentrum Jülich**

**Apply now!**

Plastic is a material with many special properties such as waterproofness, high stability and durability. However, these properties are also the reason why there is a plastic waste problem. Large quantities of plastic are made for single use and are rarely and often inefficiently recycled. Instead, plastic waste is mostly buried in large landfills or incinerated. Biodegradable plastic is still rather an exception - mostly due to the function of the material to be fulfilled - and often requires specific conditions for complete degradation. And additionally, the production of plastic, which is still largely based on fossil sources, is linked to climate-change processes.

How can plastic nevertheless become an important part of a sustainable, bio-based circular economy? This requires a multidisciplinary approach that takes all processes into account: The biobased production of known and new plastics, the development of clean and efficient chemical and biobased processes to degrade plastics, and the return of all components of plastic to the circular economy.

In the international BioSC Summer School "Plastic and sustainable Bioeconomy. How does that fit?" you will learn about approaches to produce new plastics (e.g. Polylactide) from bio-based feedstocks. You will learn what chemical and bio-based approaches exist to degrade fossil-based plastics (such as PET) and make them available again for new manufacturing processes and where the limits and challenges lie. You will learn what it takes to do a Life Cycle Assessment, taking into account logistics, supply chain management and resource management. And you will have the opportunity to work on case studies in small groups.

### Who can participate?

The Summer School addresses mainly PhD-students and advanced Master students and is limited to **20 participants**. The approval is done on the basis of the motivation letter and the background of the applicants.

### How to apply?

Please use the online application at [www.biosc.de/application\\_summerschool\\_2023](http://www.biosc.de/application_summerschool_2023). Participation is free of charge and includes accommodation and breakfast/lunch/dinner. The accommodation is centrally organized by the BioSC office. In individual cases support for travel expenses may be granted; please contact the BioSC office.

**Application Deadline: 16.03.2023**

### Scientific organizers:

Prof. Dr. Lars Blank (RWTH); Prof. Dr. Sonja Herres-Pawlis (RWTH); Dr. Stephan Noack (FZJ); Prof. Dr. Ulrich Schwaneberg (RWTH); Prof. Dr. Grit Walther (RWTH); Prof. Dr. Nick Wierckx (FZJ) and others

### Contact for further questions:

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The Bioeconomy Science Center (BioSC, [www.biosc.de](http://www.biosc.de)) is a competence center for bioeconomy research of RWTH Aachen University, University of Bonn, Heinrich-Heine-University of Düsseldorf and Forschungszentrum Jülich, founded in 2010.

