



AUTHOR BIO

Dr. Maciej Olszewski



Dr. M. Olszewski is a leading engineer in the Biorefinery Research Group at the University of Hohenheim, working within the Conversion Technologies of Biobased Resources department. In this role, he supports the group's applied research and the implementation of pilot-scale projects within its biorefinery pilot plant environment, bridging the gap between laboratory concepts and operational reality.

His work includes scaling up processes and reducing risk during transfer, as well as producing representative product samples for downstream testing, characterization and partner validation. He has experience in converting biomass into functional carbon materials, including the development and evaluation of thermochemical and hydrothermal processing routes. Beyond carbon materials, his broader biorefinery work spans platform-chemical value chains and integrated, resource-efficient processing concepts. This includes green biorefinery approaches that combine fractionation and selective recovery. For example, this involves extracting proteins from grassland/green biomass and converting the remaining streams into platform chemicals, fibers, or additional biobased intermediates.

He works at the intersection of process development, unit-operation integration, and pilot-scale execution across these topics, focusing on practical implementation and scalable biobased value creation.