World-class catalysis R&D for **biomass conversion**

ChemCatBio wants to work with you to accelerate the catalyst development cycle and rapidly transition early-stage R&D discoveries to industry.

We are an R&D consortium of U.S. Department of Energy national laboratories dedicated to identifying and **overcoming catalysis challenges** for conversion of biomass and waste feedstocks. Our **collaborative approach** integrates catalysis and process R&D from **foundational science to pilot-scale technology** evaluation.

**Unique Capabilities**

From the laboratory to the pilot plant and the theory in between, ChemCatBio has the experts and technology to tackle catalysis challenges in biomass conversion at any scale.
Nanoscale metal carbides, prepared via a new synthetic method developed by ChemCatBio researchers, improve the yield and quality of the resulting biofuel.¹

ChemCatBio researchers have achieved a 50% increase in fuel yield from biomass and a corresponding $0.44/gasoline gallon equivalent reduction in production costs by converting a low-value byproduct into high-octane gasoline.²

Find out more about our unique capabilities and the impact that ChemCatBio’s 100+ researchers have had through the 100+ peer-reviewed publications since 2016. Visit us at ChemCatBio.org to explore collaborative opportunities.

¹ F. G. Baddour et al., Angew. Chem. Int. Ed. 2016, 55, 9026

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