

ChemCatBio Webinar Series

“CatCost: An Estimation Tool to Aid Commercialization and R&D Decisions for Catalytic Materials”



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12:00–12:45pm MDT

Registration: <https://register.gotowebinar.com/register/7239259716445476867>

Catalyst cost is frequently a major contributor to the cost of biomass conversion processes and to the associated risk in commercializing new pathways. Reducing uncertainty in catalyst cost is therefore an opportunity to inform research and development (R&D) decisions and benefit the bioeconomy. CatCost, a catalyst cost estimation tool, has been developed to aid accurate estimation of catalyst costs early in catalyst development. CatCost incorporates industry standard estimation methods into a user-friendly spreadsheet and web tool to be distributed online free-of-charge. CatCost is designed especially for advanced synthetic techniques, for which there may not yet be comparable industrial processes. The tool includes process templates that translate lab-scale synthesis steps into the materials and energy balances, unit operations, and resulting capital and operating cost components of a commercial-scale production plant. This webinar presentation will detail the methods used by CatCost, validation using commercially available materials (e.g., FCC and hydrotreating catalysts), and pre-commercial estimate examples (e.g., colloiddally synthesized nanoparticles). A tutorial walkthrough of CatCost will present decision-making use cases in catalyst R&D and commercialization.

For more information, please visit our website at www.ChemCatBio.org or email us directly at Contact@ChemCatBio.org. ChemCatBio is funded by the U.S. Department of Energy (DOE) Office of Energy Efficiency and Renewable Energy (EERE) Bioenergy Technologies Office.