

# Postdoctoral Position Available in Yeast Metabolic Engineering



## **How are yeast metabolic functions genetically encoded? How can they be manipulated for sustainable human benefit?**

The Great Lakes Bioenergy Research Center (GLBRC, <https://www.glbrc.org/>) at the University of Wisconsin-Madison is seeking to train a postdoctoral researcher interested in applying metabolic engineering, multi-omic, and synthetic biology approaches to improving cellulosic biofuel production in yeast. The postdoc will be co-mentored by two GLBRC researchers, [Professor Chris Todd Hittinger](#) and [Dr. Trey K. Sato](#), to increase the conversion of glucose and xylose, the two most prevalent sugars in plant biomass, into isobutanol by *Saccharomyces cerevisiae*. Postdoctoral projects will include a mix of independent and collaborative research with a team of other GLBRC scientists. The postdoc will have access to the Center's vast knowledge, equipment, and resources for adaptive laboratory evolution, genome sequencing, CRISPR/Cas9 engineering, strain libraries, industrially-relevant lignocellulosic hydrolysates, and metabolomic tools to address a vital 21<sup>st</sup> century problem: meeting the World's need for economically viable and environmentally sustainable biofuels and bioproducts.

Postdoc candidates should have their PhD (by the start date) with a strong background in molecular genetics, microbiology, metabolic engineering, and/or synthetic biology. Experience in analyzing Illumina sequencing data, bioinformatics, machine learning, and CRISPR/Cas9 genome engineering are highly desirable. Please send a CV, any manuscript p/reprints, and contact information for 3 references to [cthittinger@wisc.edu](mailto:cthittinger@wisc.edu) and [tkrato@glbrc.wisc.edu](mailto:tkrato@glbrc.wisc.edu). Specifically mention why you are interested in this position in your email. Apply by 15 December 2023 for full consideration, but candidates will be considered on a rolling basis. Start date is negotiable, but sooner is better.