Postdoctoral Researcher Position in the Department of Chemical & Biological Engineering at Montana State University

We are currently seeking applicants for a postdoctoral researcher to work on a 3-year project on biomass physical fractionation, conversion, characterization, and modeling in the Department of Chemical & Biological Engineering at Montana State University. The anticipated start date is 1 January, 2020 and applications will be accepted until the position is filled.

The overall scope of this project is to identify conditions for optimal corn stover fractionation using a two-stage physical fractionations, assess how physical fractionation impacts properties, partitioning of biomass, and response to processing, further adapt, develop, and validate several advanced characterization tools for assessing biomass properties that can be linked to processing behavior, and develop and validate predictive models based on measurements that can be performed “in the field” or “at the biorefinery gate” to predict feedstock processing behavior (preprocessing and deconstruction). A key impact of this project will be to develop the capability to tailor feedstock properties to the conversion process, allowing for more streamlined processing. Another important impact will be the ability to generate lignocellulose fractions enriched or depleted in select properties that could be used in other applications as co-products, which is an important component of enabling the economics of cellulosic biofuels processes.

Applicants must have:

(1) a PhD in Chemical Engineering, Chemistry, or related field
(2) a strong background in biomass processing and characterization tools
(3) a demonstrated publication record in the field

Interested applicants can send their CV and Cover Letter by email to:

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