



Dartmouth College

Title: Research Associate B

Department: Thayer School of Engineering

Reports to: Professor Lee Lynd

Date: 4/20/2016

Position Purpose

To conduct research on bacterial enzymes and expression systems for conversion of renewable biomass resources to fuels. Research Associate is the title used for Postdoctoral Researchers at Dartmouth College. The position is for 1 year with potential extension beyond that, subject to funding available.

Key Accountabilities

Laboratory research

The candidate will mainly conduct laboratory work towards project objectives, including biochemistry, analytical chemistry, culturing of anaerobic bacteria, enzymology, cloning and recombinant protein expression in non-standard bacterial hosts.

Identification of target enzymes will be the first objective, followed by protein expression optimization and troubleshooting.

The candidate will bring expertise in laboratory techniques and scientific knowledge acquired during their PhD studies, but are expected to learn new techniques and subject matter as part of this project, and to establish themselves within the field.

The candidate will report to a PhD level scientist in the Lynd lab and will receive guidance and mentoring, but are expected to conduct day-to-day activities independently.

Results and objectives must be discussed as part of a larger project team.

They will keep careful records of their actions and results, and will report outcomes to their supervisor and other members of the team.

Performs other duties as assigned.

Position Requirements

Skills & Knowledge

Mastery of standard biological laboratory techniques, including sterile culturing methods, molecular biology and biochemistry is required. Good communication and interpersonal skills are critical. Strategic thinking will be developed, so the candidate's capacity for innovation and initiative will be considered. A sensible, adaptable, and innovative attitude is desirable.

Experience

Experience and knowledge of bacteria, carbohydrate-active enzymes and protein expression is especially desirable.

Education

PhD in microbiology, chemical or biological engineering, biotechnology, biochemistry or related field. A track record of productivity in graduate school and the quality of reference from the PhD advisor will be considered.

Enquiries about this position should be directed to Dr. Chris Herring at: chrisherringfish@gmail.com

Applications should be made through the Dartmouth Employment website at

<https://searchjobs.dartmouth.edu/postings/37012>