



# Dartmouth College

**Title:** Research Assistant I

**Date:** 5/2/2016

**Department:** Thayer School of Engineering

**Reports to:** Professor Lee Lynd

**Purpose:** To assist in biotechnology and fermentation research for production of renewable chemicals and especially fuel-grade ethanol by applying established methods, procedures, and techniques. The position is for 1 year with potential extension beyond that, subject to funding available.

## Accountabilities

- Sets up and assists with research protocols and experiments under the general guidance of the principal investigators and other senior investigators in the laboratory; may have primary responsibility for independently setting up, performing and troubleshooting less complex experiments.
- Handles, grows, and maintains non-pathogenic microorganisms in an aseptic manner for research and storage. Prepares research solutions and media for on-going research in the fermentation laboratory in a careful, quantitative manner.
- Prepares, sets up, sterilizes and operates fermentation flasks and small scale fermentors for research followed by deactivation of fermentations with associated clean-up of vessels and equipment.
- Reports experimental results to the principal investigator and other senior laboratory personnel and assists in their analysis
- Adheres to laboratory safety requirements including general and chemical/hazardous waste safety disposal methods
- Accomplishes day-to-day care and housekeeping of laboratory.
- Assess the need for and orders all supplies and reagents needed for experiments.
- Assists in the maintenance of laboratory equipment and safety records, and in the preparation of routine reagents.
- Maintains computerized records associated with laboratory activities.

## Requirements

- Competence in several laboratory methods, procedures and techniques as well as the equipment and instruments.
- Knowledge of computers and software applications for data analysis and presentation, and ability to learn a computer based fermentation control system.
- Laboratory/ research experience in a professional or academic setting.
- Bachelor's degree with a major in Biological Sciences, Chemistry, or other relevant discipline or the equivalent.

Enquiries about this position may be directed to Dr. Chris Herring at: [chrisherringfish@gmail.com](mailto:chrisherringfish@gmail.com)  
Applications should be made through the Dartmouth Employment website at

<https://searchjobs.dartmouth.edu/postings/37020>