

MS or PhD Graduate Assistantship in Materials Science and Engineering

An MS or PhD Graduate Assistantship is available to study fundamental aspects of the structure of lignocellulosic surfaces in support of the long-term goal of efficient conversion of plant cell wall biomass into transportation fuels. Spectroscopic characterization experiments and molecular structural modeling are the main technical approaches to be used. The successful applicant would join the Intercollege Materials Science and Engineering graduate program of The Pennsylvania State University at its University Park campus in central Pennsylvania (see MATSC, bulletins.psu.edu/bulletins/whitebook). Additional opportunities for the student's academic and professional growth will stem from participation in the multi-institutional Center for Lignocellulose Structure and Formation, an Energy Frontiers Research Center funded by the US Department of Energy (lignocellulose.org), and through affiliation with the College of Agriculture. Given the multidisciplinary nature of the project and long-term goal, we encourage applications from interested students possessing undergraduate degrees in any relevant field of science: biological, chemical or physical. For more information, contact: Dr. Douglas Archibald, Department of Crop and Soil Sciences (dda10@psu.edu; cropsoil.psu.edu; 814-865-8449).



PENNSTATE CROP AND SOIL SCIENCES

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This Weeks Seminars:

Friday, October 30, 2009

Presenter: Joel Myers

Details: "The Life and Times of a Practicing Agronomist, Outstanding Alumni Award"

Location: 101 Ag. Sciences & Industries Building at 12:20 p.m.

Welcome to the Department of Crop and Soil Sciences at Penn State. The Department of Crop and Soil Sciences is located in the Agriculture Sciences and Industries Building at the University Park campus of The Pennsylvania State University. Our staff consists of 29 faculty members, and administrative and support personnel. We offer undergraduate majors (Environmental Soil Science and Turfgrass Science), two undergraduate minors (Agronomy and Environmental Soil Science), one Certificate program (Golf Course Turfgrass Management (Agronomy and Soil Science), and two Doctoral programs (Agronomy and Soil Science).

The department also participates in two College of Agriculture inter-departmental programs at the undergraduate level: Environmental Resource Management and Environmental Resource Management. The department participates in four, inter-college programs (Genetics, Materials, and Plant Biology).

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Center for Lignocellulose Structure & Formation

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Welcome to the **Center for Lignocellulose Structure & Formation**

Cell Wall Science for a Sustainable Future

Our Mission

CLSF (Center for Lignocellulose Structure and Formation) is a DOE Energy Frontiers Research Center focused on developing a detailed understanding of lignocellulose, the main structural material in plants, from cellulose synthesis and fibril formation to a mature plant cell wall, forming a foundation for significant advancement in sustainable energy and materials.

Latest News

Open Positions

The CLSF is accepting applications for a Center Manager, Administrative Staff, Laboratory Technicians, Post-Doctoral Students, and Graduate Students.

Help Wanted

Center aims at unraveling mysteries of plant cellulose

Jeffrey Catchmark sees the quest to unlock the mysteries of lignocellulose synthesis and assembly as one of the most important research pursuits of the next century.

[Read more >>](#)

Diffuse-reflectance infrared spectroscopy of cell-wall tissues held in small wells in a metal microplate in the Archibald Lab provides a rapid means of assessing molecular differences in collections of cell-wall-based materials.

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