

Dr. Lingying Zhao, a professor in the Department of Food, Agricultural and Biological Engineering, is looking to hire one or two undergraduate students in FABE to help her Air Quality & Bioenvironmental Engineering Group with two research projects.

The first project is related to the development and testing of electrostatic precipitators and other electrostatic control methods to collect airborne dust particles in animal production facilities. As part of their work on this project, students are expected to help with high voltage equipment and insulation setup, data acquisition, and equipment maintenance/cleaning as needed. Students must always follow the high voltage laboratory safety procedures (training on safety procedures will be provided). Students who have a background or experience working with high voltage or have taken the course ECE 5047 are preferred.

The second project is related to the creation of a mechanistic model to predict ammonia generation from animal manure, which is done by conducting wind tunnel experiments. As part of their work on this project, students are expected to help with manure sampling and performing wind tunnel experiments. Students with a background or experience in data acquisition are preferred.

An average of 10-15 hours of work per week is expected for the remainder of the spring semester, although the exact number of hours per week can be flexible. The position(s) may continue during the summer semester with an increased number of working hours per week depending on research needs.

Interested students should send an email to [knight.376@osu.edu](mailto:knight.376@osu.edu) discussing their interest in one or both projects. The email should include year/ranking, FABE specialization, a short description of potentially relevant prior experience/coursework, and the reason(s) they are interested in assisting with the research project(s).