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Area of Expertise:

- Emergency poultry disease response including depopulation, carcass disposal, and disinfection
- Alternative lighting technologies
- Instrumentation, sensing, and machine vision
- Agricultural air quality

Focus of Research:

- Local, national, and international outreach on emergency poultry disease response coupled with development, evaluation, and process improvement and mass emergency depopulation procedures for emergency poultry disease response, carcass composting, and alternative disinfection strategies, equipment, and treatments
- Alternative lighting technologies for the poultry industry and the interaction between lamp technologies, specific lamps, dimmers, and dimming settings

Current Funded Projects (Source):

- Open-source mobile low cost vehicle undercarriage wash system (USDA APHIS)
- Evaluation of Poultry House Heat Treatment as an Alternative to Post Outbreak Wet Cleaning and Disinfection (US Poultry and Egg Association)
- Scope of Work for the University of Delaware to provide training for the 2017 Emergency Poultry Disease Response (EPDR) Certificate Training Program (USDA ITRCB)
- Scope of Work for the University of Delaware to provide Emergency Response and Foam Depopulation Training and Testing for 3-D contractors (USDA NVS)