

Graduate Assistantship (M.S./Ph.D.) Available in Biosystems Engineering

POSITION

Michigan State University ([Top 100 Globally](https://www.msu.edu/)) is inviting applications for M.S./Ph.D. level Graduate Research Assistantship (GRA) in the Department of Biosystems & Agricultural Engineering (<https://www.egr.msu.edu/bae/>). The GRA will cover tuition and insurance and living stipends and is renewed annually. The anticipated start date is Spring 2023 or Fall 2022. The successful candidate will work with [Dr. Yuzhen Lu](#), on original research broadly within the field of **non-destructive sensing, automation/robotics, and advanced data analytics for agriculture-food systems**. Potential research topics include but are not limited to spectroscopy and imaging, inspection and sorting of agricultural and food products, machine learning and robotics for specialty crop production, and artificial intelligence and internet of things in plant/animal production. The successful candidate needs to be creative, self-motivated and has a strong desire to learn new skills and collaborate in a multidisciplinary environment and will be expected to communicate research results through peer-reviewed publications and give presentations at conferences.

QUALIFICATIONS

- Students must earn a B.S. or M.S. degree in *Agricultural or Biosystems Engineering, Electrical Engineering, Mechatronics, Automation, Computer Science/Engineering, Optics, Applied Mathematics*, or other related fields, with a 3.3 or higher GPA;
- Students proficient in **computer programming** (e.g., Python, Matlab, C++/C, Qt), **computer vision or image analysis, machine learning** (e.g., PyTorch, TensorFlow), or **robotics**, with demonstrated research abilities (e.g., peer-reviewed journal publications);
- Students should have demonstrated excellence in scientific writing and communication skills;
- Students with non-English credentials must obtain a TOEFL score of iBT 80+ or IELTS score of 6.5 or higher (<https://grad.msu.edu/english-language-competency>) and have a GRG score.

APPLICATION

Please contact Dr. Yuzhen Lu if you are interested in this position. A full application for an official offer to be made should include **a cover letter describing the applicant's research interest, a CV, transcripts, test score(s), journal publications (if any), and a list of three references including names, email, address, and telephone number**. Review of applications will begin immediately and continue until the position is filled. Video conference interviews will be requested for potential candidates. Successful applicants will need to apply to the Graduate School of Mississippi State University. Please visit <https://grad.msu.edu/apply> and <https://www.egr.msu.edu/bae/graduate/application-instructions> for application details.

CONTACT

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