



Graduate Assistantship (M.S./Ph.D.) Available in Biosystems Engineering, Spring/Fall 2023

POSITION

Michigan State University (<u>Top 100 Globally</u>, <u>Public Ivy</u>, the very first Land-grant University and <u>AAU</u> member in the U.S.) is inviting applications for M.S./Ph.D. level Graduate Research Assistantship (GRA) in the Department of Biosystems & Agricultural Engineering (BAE) (https://www.egr.msu.edu/bae/). The GRA covers tuition and insurance and provides stipends and will be renewed annually. The anticipated start date is Spring/Fall 2023. The student will work, under the supervision of <u>Dr. Yuzhen Lu</u>, on original research broadly within the multidisciplinary field of **non-destructive sensing**, **automation/robotics**, **and advanced data analytics for smart agriculture-food systems**. Potential research topics include but are not limited to imaging/machine vision for automated inspection and sorting of agricultural 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

- B.S./M.S. degree in *Agricultural or Biosystems Engineering, Electrical Engineering, Mechatronics, Automation, Computer Science/Engineering, Optics*, or other related fields, with a GPA of 3.3 or higher
- Proficiency in **computer programming** (e.g., Python, Matlab, C++/C, Qt)
- Experience in **image processing/analysis**, **computer vision**, **machine learning** (e.g., PyTorch, TensorFlow), or **robotics**
- Experience in engineering design (e.g., Solidworks), prototyping, software-hardware integration
- Demonstrated research abilities and scientific writing skills (e.g., peer-reviewed journal publications);
- 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

If interested in this position, please contact Dr. Yuzhen Lu with a description of how you meet the qualifications. 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 will begin immediately and continue until positions are filled. Video interviews will be requested for potential candidates. Successful applicants will need to apply to the Graduate School of Michigan State University. Please visit https://grad.msu.edu/apply and https://grad.msu.edu/apply and https://www.egr.msu.edu/bae/graduate/application-instructions for details.

CONTACT

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