

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

POSITION

Michigan State University ([Top 100 Globally](#), [Public Ivy](#), the first Land-Grant University and [AAU](#) member in the U.S.) is inviting applications for M.S./Ph.D. research assistantship in **Biosystems Engineering** (<https://www.egr.msu.edu/bae/>). The assistantship covers tuition and insurance and provides competitive stipends and will be renewed annually. The student will work with [Dr. Yuzhen Lu](#), on original research broadly within the multidisciplinary field of **non-destructive sensing, instrumentation, automation/robotics, and advanced data analytics for smart agriculture-food systems**. Potential research topics include but are not limited to imaging and spectroscopy for quality detection and sorting of agricultural products, machine vision and robotics for specialty crop management, phenotyping, and harvesting, and artificial intelligence and internet of things in confined plant/animal production systems. The successful candidates need to be creative, self-motivated, and adaptive, and can collaborate in a multidisciplinary environment. The students will be expected to communicate research results actively through peer-reviewed publications and deliver presentations at conferences.

QUALIFICATIONS

- B.S./M.S. in Ag/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 or robotics
- Experience in engineering design, prototyping, software-hardware integration
- Demonstrated research abilities and scientific writing skills (e.g., peer-reviewed publications)
- Students with non-English credentials must obtain a valid TOEFL score of iBT 80+ or IELTS score of 6.5 or higher (see <https://grad.msu.edu/english-language-competency>) and have a GRE score as well.

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://www.egr.msu.edu/bae/graduate/application-instructions> for details.

CONTACT

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