

PhD Position in Optical Imaging/Machine Vision for Food Quality Detection Michigan State University

Direct Link: https://www.AcademicKeys.com/r?job=249910

Downloaded On: Apr. 2, 2025 7:41am Posted Dec. 4, 2024, set to expire Apr. 5, 2025

Job Title PhD Position in Optical Imaging/Machine Vision for

Food Quality Detection

Department Department of Biosystems & Agricultural Engineering

https://www.canr.msu.edu/bae/

Institution Michigan State University

East Lansing, Michigan

Date Posted Dec. 4, 2024

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Graduate Student

Academic Field(s) Biosystems Engineering

Job Website https://www.canr.msu.edu/bae/graduate/

Apply By Email luyuzhen@msu.edu

Job Description

Graduate Assistantships in Biosystems Engineering at Michigan State University 2025 Spring/Summer/Fall

Michigan State University (Top 100 Globally, Public Ivy, the first Land-Grant University and AAU member in the U.S., Top 15 in Agriculture & Forestry worldwide) is inviting applications for M.S./Ph.D. research assistantships in Biosystems Engineering (https://www.egr.msu.edu/bae/). The assistantship covers tuition and insurance and provides competitive stipends (~\$38 K annual stipends) and will be renewed annually. The students will work with Dr. Yuzhen Lu(https://www.yuzhenlu.com/), on original research and development at the intersection of optical sensing (quantitative imaing/machine vision), signal processing, artificial intelligence (AI) (e.g., generative AI, supervised/semi-supervised learning), and automation for quality assessment and online inspection of foods



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(poultry, catfish, and horticultural produce). Successful candidates need to be *creative*, *self-motivated*, *adaptive*, *focused*, *and collaborate in multidisciplinary environments*. The students will be expected to *communicate research outcomes actively and in time through high-quality*, *peer-reviewed publications and deliver presentations at conferences* (e..g, two national/international conferences per year).

REQUIRED

- B.S./M.S. degree in Ag/Biosystems/Food Engineering, Optical Science/Engineering, Electrical Engineering, Automation, Computer Science/Engineering, or other related fields, with a GPA of 3.3 or higher.
- Proficiency in computer programming (e.g., Python, C++/C, Qt, Matlab).
- Experience in optical imaging, instrumentation, machine learning, or automation.
- Experience in engineering design and prototyping, and software-hardware integration.
- Demonstrated research abilities and scientific writing skills through 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) as well as a GRE score (highly recommended to provide).

PREFERED

- Refereed journal publications in quantative optical imaging (e.g., structured light, light scattering) or machine vision of biological materials/tissues
- Experience in hands-on optical instrumentation and automation

APPLICATION

If interested in this position, please contact Dr. Yuzhen Lu [luyuzhen@msu.edu (unserious emails without addressing qualifications will not get replies)] 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, 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 MSU Graduate School. Please visit https://grad.msu.edu/apply



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

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Yuzhen Lu

Department of Biosystems & Agricultural Engineering

Michigan State University

524 S. Shaw Ln, 211 Farrall Hall

East Lansing, MI 48824

Contact E-mail luyuzhen@msu.edu