

## **Graduate Research Associate Positions: Remote Sensing and Data Analytics for Sustainable Agriculture**

**Position Summary:** The Department of Food, Agricultural and Biological Engineering (FABE) at The Ohio State University (OSU) is recruiting two M.S. and one Ph.D. level graduate students to investigate the use of drone and satellite based remote sensing technologies, and data analytics for assessing and monitoring the agricultural management practices. Specific focus of these positions will be on: 1) Assessment of agricultural practices using remote sensing technologies. (2) Implementation of data analytics methods for remote sensing applications for precision agriculture. (3) Integration of remote sensing technologies with ecosystem models to explore the role of agricultural practices under changing climate.

Selected graduate students will work in projects involving interdisciplinary team of researchers from various disciplines, such as agricultural engineering, computer science, translational data analytics, horticulture and crop science, geography, economics and landscape architecture. The students will also have the opportunity to work with farmers, crop consultants, and precision agriculture industries. Graduate students are expected to publish research findings in international peer-reviewed journals, present research findings in conferences/meetings, and generate regular project update reports.

*The ideal candidates should have the following qualifications and experiences:*

- BS or MS degree in agricultural, mechanical, computer, civil, or electrical engineering; environmental science; computer science; or other related disciplines.
- Demonstrated statistical and computer-programming (Python, R, OpenCV, MATLAB, Java, C++, etc.) skills
- Experience in remote sensing, GIS, ecosystem modeling, precision agriculture technologies.
- Ability to learn/adopt skills and knowledge in solving “real-world” problems.
- Creative and independent research abilities with teamwork spirit.
- Strong oral and written communications skills.

**Salary and Benefits:** Starting salary/stipend will be competitive. The position will include full benefits as per OSU guidelines, including tuition and health care benefits.

**Anticipated Starting Term:** Fall 2019 (Open until filled). Applications will be reviewed as received.

**No. of Positions:** 3

**How to Apply:** Please email the following materials to Dr. Sami Khanal ([khanal.3@osu.edu](mailto:khanal.3@osu.edu)):

- Cover letter outlining (a) how your experience prepares you to work on these projects, and (b) which aspects of these projects is of the most interest to you.
- Detailed CV
- Academic transcripts (Unofficial copy at this point)
- Unofficial GRE and TOEFL (only for international students) test scores
- List of three references (name, position, institution, email address, and phone number).