

Position: Post-Doctoral Research Assistant/Associate (100% Fiscal year Appointment for 1 year, and up to 2)

Available: June 1, 2018

Location: Controlled Environment Phenotyping Facility, Agriculture Administration, West Lafayette, IN

Responsibilities: The PostDoc will develop a suite of advanced machine vision algorithms for plant phenotypical trait extraction and quantification using RGB and/or hyperspectral imageries. The candidate is also expected to leverage artificial intelligence and deep-learning in image analysis and data mining for plant phenotyping, using data from the RGB and/or hyperspectral imaging systems, and potentially other imaging systems in Purdue University's phenomics facilities.

Required qualifications: Ph.D. degree in Agricultural and Biosystems Engineering, Computer Science, Plant Physiology, or related disciplines. Expertise in image analysis and machine vision. Strong skills in a higher programming language (e.g. Python, C++, etc). Familiarity in instrumentation and/or imaging system calibration. Good experience in experimental design (statistically), data analysis and result interpretation documented by publication records. Excellent communication and teamwork skills.

Preferred qualifications: Experience in deep learning or other machine learning. Good experience in data analytics, visualization, and good record of publications and presentations. Familiar with manipulating georeferenced imagery and/or remote sensing image processing.

Salary and Benefits: Salary commensurate with experience. Fringe benefits also provided.

Application Procedure: Qualified persons are requested to send a letter of application including a 1-page (maximum) statement of research goals, and a curriculum vitae as electronic PDFs along with email addresses for three references, and 1 representative example of their scholarly work to:

Dr. Yang Yang, Director Digital Phenomics
615 West State Street
Controlled Environment Phenotyping Facility
Purdue University
West Lafayette, IN 47907
Yang1527@purdue.edu

CEPF information is available at:

<https://ag.purdue.edu/cepf/>

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.