Biological Systems Engineering
UNIVERSITY OF WISCONSIN–MADISON

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The Digital Agriculture Research lab (https://digitalag.bse.wisc.edu/) at the University of Wisconsin- Madison is recruiting a Postdoc Researcher. The Postdoc Researcher will be supervised by Dr. Zhou Zhang from UW-Madison and Dr. Zhengwei Yang from USDA NASS. The successful candidate will work on:

1. Develop crop process-based crop growth model (e.g., APSIM, APEX, DSSAT) to estimate crop growth stages, biomass, and crop yield under forecasted weather and projected climate conditions.

2. Develop machine learning models to predict crop yield by using historical yield data, phenology outputs from crop growth model.

3. Develop physical-guided machine learning models that integrate crop growth model with machine learning for decision making.

The candidate will also collaborate with researchers from NASA on this project. Ideal candidates would have background in remote sensing, crop growth models, data assimilation and machine learning. Demonstrated skills in scientific writing, publications, and communication. Salary is commensurate with candidate's experience and UW- Madison provides competitive fringe benefits.

Starting Date: The postdoc position is immediately available, and candidates will be reviewed on a rolling basis.

Application Process: If interested, please email your CV and a Cover Letter to Dr. Zhou Zhang (zzhang347@wisc.edu) and Dr. Zhengwei Yang (zhengwei.yang@usda.gov). Qualified candidates will receive email feedback immediately.