Position: Post-doctoral Research Associate
Location: University of Minnesota, Department of Agronomy and Plant Genetics
Research Area: Plant Physiology

Qualifications: Ph.D. in Crop/Plant Eco-physiology, Plant Physiological Ecology, Plant Functional Ecology or related field. Candidates with a Ph.D. in Applied Quantitative Genetics and Crop Breeding will be considered if they document a solid experience in Plant Physiology that is relevant to the below description.

A post-doctoral position is available in the field of Plant Physiology/ Plant Phenomics. The overarching aim of this position is to contribute to developing a phenotyping platform that will enable the screening of abiotic stress tolerance traits within large plant populations. The post-doctoral research associate will i) lead the development of new phenotyping approaches that will take advantage of key plant eco-physiological processes and ii) generate high quality, high throughput phenotypic data from populations which will be used to perform genetic analyses. The post-doctoral research associate is also expected to lead the preparation and publication of peer-reviewed manuscripts and present research findings to target audiences.

Required skills

- Solid basic knowledge is required in one (or more) of these areas: plant water relations/ hydraulics, photosynthesis, nitrogen fixation, photobiology or electrophysiology.
- Documented experience with developing custom-made phenotyping equipment or setups to examine plant physiological processes responses to the environment.
- Solid experience with statistical analysis of large datasets and programming in R.
- Excellent communication skills (written and oral).
- Excellent interpersonal skills.

Desirable skills

- Experience in sensor multiplexing and connectivity.
- Experience in high-throughput image analysis.

The ideal candidate will have demonstrated high motivation, potential for creativity and a strong drive to publish in a timely manner. The postdoctoral associate will also have the opportunity to develop mentoring/supervising skills.

Ideally, the position will begin July 1st or August 1st. Applications will be reviewed until the position is filled. The applicants are encouraged to clearly describe the skills that they bring to the project as described above and outline areas that they wish to develop in the present phase of their careers. Salary will be commensurate with experience.

For inquiries about the position, please contact Dr. Walid Sadok (msadok@umn.edu, Phone: 612-625-8291). To apply, send a letter of application, a full curriculum vita, and contact information for three references to Walid Sadok (msadok@umn.edu).