Postdoc- Modeling plant growth responses to drought and heat stress

The [Bartlett Lab] in the Department of Viticulture & Enology at the University of California, Davis is recruiting a postdoc to develop modeling and experimental approaches to investigate the physiological traits and processes that determine plant responses to drought and heat stress. The successful candidate will build mechanistic models scaling plant growth from physiology to understand how plasticity in structure and function (e.g., allometry and stomatal behavior) mitigates these stresses, and how optimal strategies for plasticity vary across plants with diverse physiology traits. The candidate will also use grapevines as a model system in experiments to address fundamental questions about the mechanisms, costs and constraints underlying plasticity. Qualified candidates will have completed a PhD by the start date, have a strong record of quantitative and writing skills in plant physiology, ecohydrology, crop modeling, or a related research area, and experience measuring plant gas exchange or hydraulic traits. The preferred start date is June 2019, with some flexibility around this date. The appointment will initially be for 1 year, with the possibility of extending the position up to 3 years. To apply, please submit a statement of research accomplishments and future research plans (max. 2 pgs), CV, and contact information for 3 references as a single PDF to [mkbartlett@ucdavis.edu]. Review of applications will begin on March 1st, 2019.

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