

## Postdoctoral Research Associate

### North Carolina State University

The Department of Horticultural Sciences is searching for a postdoctoral research associate to conduct research on horticultural plant responses to light (quality and quantity) and the interaction of light with other environmental parameters. Light emitting diodes have the unique opportunity to have a customized spectral output that can improve plant production, desirable plant morphology, and growing energy efficiencies. The successful candidate will design a problem-solving research program focused on the manipulation of light and the interaction of light and other environmental parameters to improve horticultural systems sustainability.

The objective of the research is to develop optimal light recipes for the production of horticultural crops under controlled environments including greenhouses (supplemental lighting) and vertical farms (sole-source lighting). Among the enhanced plant responses include increase in growth rate, desirable morphology, enhancement of phytochemicals concentration, and increase of nutritional content. The successful candidate will conduct experiments in growth chambers and greenhouse environments using important horticultural crops such as vegetable transplants, leafy greens, small fruiting crops, medicinal plants, and plant-based pharmaceuticals, among others. Also, as senior scientist, the candidate is expected to advise graduate students.

### Qualifications

- PhD in plant sciences, horticulture, agriculture/biosystems engineering, or a related topic.
- Strong background in plant physiology.
- Excellent written communication skills and the ability to work well in a fast-paced collaborative environment.
- Experience in the use of controlled-environment research technology is a plus (sensors and controllers, data-acquisition systems, gas exchange systems).

How to apply: Applicants should provide a letter of interest, a complete CV, recent publications, and the names and contact information for three references as a single pdf file to Dr. Ricardo Hernández ([rhernan4@ncsu.edu](mailto:rhernan4@ncsu.edu)).

This is a regular full-time position for 1.5 years, extended appointment will depend on future available funds and candidate performance. Starting date is expected by January 2016 (open to discussion).

Salary commensurate with experience, successful manuscript publication, and grantsmanship.