Open Postdoctoral Scholar Position
Precision Irrigation & Water Requirements for Hemp

Position Summary
Applications are invited for a 12-month, full-time (1.0 FTE) postdoctoral scholar position at the Hermiston Agricultural Research and Extension Center (HAREC) at Oregon State University (OSU). The candidate will be responsible for the management of the hemp research program at OSU HAREC, with a specific focus on developing a water requirement framework for drip-irrigated hemp crops. The incumbent will independently conduct and manage a field-based research project that works to quantify water use requirements in hemp cropping systems. The position will be in charge of completing hemp field trials at OSU HAREC and will collaborate with four other sites that are replicating the research throughout Oregon and California. One year of field experimentation was completed in 2020 and the candidate will replicate the trial in Summer 2021, with expectations to publish the results from both years. The candidate will also work with cooperators from the Global Hemp Innovation Center. Knowledge of drip irrigation, calculating water flow rates, and soil moisture monitoring are essential to the objectives of this project.

Applications are being accepted until April 1st, 2021 with an anticipated start date as soon as May 15th, 2021. The position is funded for a 1-year period. Stipend and benefits conform with postdoctoral scholar standards at OSU. More information about postdoctoral scholar appointments at OSU can be found at http://gradschool.oregonstate.edu/postdocs.

Position Duties
Duties will include, but not limited to:

65% Research
- Designing, implementing, and managing hemp irrigation research field trials.
- Calculating and delivering treatment specific water rates and fertilization inputs through the drip irrigation system.
- Manage and coordinate soil moisture readings on a weekly basis.
- Processing, analyzing, and reporting on findings.

10% Extension
- Dissemination of findings regionally and nationally through oral presentations.
- Producing extension publications on irrigation for hemp.
20% Scholarship
- Publish research results as lead or co-author in peer-reviewed journals and other publications as appropriate. Present results to peers and/or industry at local, national, and international meetings.

5% Supervision
- Plan, assign, and approve daily duties for student workers and temporary laborer’s

Minimum Required Qualifications
- Ph.D. in horticulture, agronomy, soil science, water resources, hydrology or a closely related field of study.
- Demonstrated ability to contribute to scholarly activity through refereed journals and presentations at scientific meetings.
- Demonstrated experience in field research skills.
- Proficiency with fundamental laboratory techniques.
- Demonstrated ability to collaborate and work within a team structure.
- Ability to work independently in diverse environmental conditions.

Preferred Qualifications
- Experience in conducting applied research.
- Experience with statistical methods.
- Experience with drip irrigation management and irrigation research.
- Familiarity with sensing and monitoring instrumentation to track soil/water parameters.
- Experience modeling water flow in the soil profile.
- Experience working at an off-campus research station.
- Ability to work with diverse faculty, students, industry clientele, and stakeholders.
- A demonstrable commitment to diversity and inclusiveness.

Working Conditions/Work Schedule
- Research will be conducted at HAREC.
- Work may require lifting, pushing, or pulling up to 50 lbs.
- Tasks may require work outdoors in all weather conditions for extended periods.
- Must be able to work on uneven terrain.
- Non-standard hours may be required during peak times of the field season.

How to Apply
Email application containing PDF documents of the following materials to:
Dr. Scott Lukas at scott.lukas@oregonstate.edu
1) Cover Letter
2) CV/Resume
3) Unofficial graduate transcripts
4) Names and contact information for at least three professional references
5) Brief writing sample

For full consideration, apply before April 1st, 2021. Applications will be reviewed as they are received.

Please direct questions about this position to scott.lukas@oregonstate.edu

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