



**Oregon State**  
**University**

**Hermiston Agricultural Research and  
Extension Center**

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## **Postdoctoral Position in Soil Aggregate Stability**

### **Position Information**

Department: HAREC, Crop and Soil Science

Position Title: Postdoctoral Scholar

Job Title: Postdoctoral Scholar

Job Location: Hermiston, OR

Appointment Percent: 100

Appointment Basis: 12

Start Date: December 1, 2024 (or as negotiated)

End Date: November 30, 2025

Notes on the End Date: 12 months after the start date, may be extended for an additional year

Notes on Full Consideration Date: Open until filled

Faculty Status: Post Doctorate

Tenure Status: Fixed-Term

Pay Method: Salary

Salary: Based on years of postdoctoral experience. Stipends and benefits can be found [here](#).

### **Position Summary**

12-month, full-time (1.0 FTE) postdoctoral scholar position at the Hermiston Agricultural Research and Extension Center (HAREC). The incumbent will conduct and manage applied research projects to understand the effect of critical physical processes on soil aggregate stability. The research combines soil sampling, laboratory analysis, and the use of machine learning techniques.

### **Position Duties**

- Research (70%). Designing and implementing field trials and data collection, conducting laboratory analyses, and deriving machine learning models for predicting aggregate stability.
- Scholarship (20%). Collaborating with faculty and graduate students leading to scholarly results, data synthesis and reports preparation, and manuscript writing and publication.
- Supervision and professional development (10%). Mentoring and overseeing undergraduate and graduate students and technical staff, participating in training sessions to learn new skills, and attending group meetings, discussions, and staff events at the station.

### **Minimum Required Qualifications**

- PhD in soil science, agronomy, or a closely related discipline.
- Applied research experience in soil science, soil health, and/or agricultural practices.
- Strong scientific writing and technical presentation skills.
- Demonstrated excellence in field and laboratory skills.
- Demonstrated ability to collaborate, cooperate, and work within a team structure.
- Demonstrated ability to work independently.
- Must be able to obtain a valid Oregon driver's license.

**Preferred Qualifications**

- Experience using machine learning techniques.
- Proficient with programming/scripting languages in R or similar.
- Experience in data science and statistics analysis.
- Experience using GIS.
- Experience in securing extramural funding.

**Working Conditions / Work Schedule**

Full-time, on-site at HAREC in Hermiston, OR. Work is generally conducted in a laboratory, field, or office setting. Occasionally, research projects may require working at atypical times (e.g., evenings and weekends) or in extreme weather conditions (e.g., hot or cold temperatures, rain, wind, etc.). Travel for on-farm research, workshops, and professional meetings.

**Special Instructions to Applicants**

When applying, send one combined PDF containing the following materials to Dr. Carlos Bonilla ([carlos.bonilla@oregonstate.edu](mailto:carlos.bonilla@oregonstate.edu)):

1. A cover letter indicating how your qualifications and experience have prepared you for this position.
2. A resume/CV.
3. 2-page Research Interest Statement.
4. Copies of selected publications - including one first-author peer-reviewed paper - exemplify your writing, knowledge, and relevant skills.
5. Contact information for at least three professional references, including name, current position, email address, phone number, and relationship to you.

For additional information, please contact Dr. Carlos Bonilla at [carlos.bonilla@oregonstate.edu](mailto:carlos.bonilla@oregonstate.edu).