

# Assistant Professor

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## Position Details

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### Position Information

**Department** Biol & Ecol Engineering (ABE)

**Position Title** Assistant Professor

**Job Title** Assistant Professor

**Appointment Type** Academic Faculty

**Job Location** Corvallis

**Benefits Eligible** Full-Time, benefits eligible

**Remote or Hybrid option?**

### Job Summary

**The Department of Biological & Ecological Engineering invites applications for a 1.00 FTE, 9-month tenure-track Assistant Professor with expertise in biosystems modeling and/or coupled human-natural system modeling.**

Biosystems modeling is at the heart of understanding current landscapes and managing them for resilient and sustainable outcomes in the future. This position will integrate and advance techniques for modern data analysis and modeling to understand biosystem feedbacks and interactions, as well as forecast societally-relevant outcomes. Expertise in the integration of mechanistic (process-based) modeling and data science approaches is of particular interest in order to leverage the strengths of both approaches. Position research focus might include agricultural systems or crop modeling, agrivoltaics or integrated agricultural and energy systems, management or optimization of agro-ecosystems, scenario planning and forecasting, climate adaptation and evaluation of natural infrastructure, or analysis of complex systems and their dynamics. Research in participatory modeling, community-engaged research, interdisciplinary synthesis, and/or environmental justice is of particular interest.

This position is encouraged to utilize the many collaborative research centers and facilities at Oregon State University which include strong programs in engineering; agricultural sciences; Earth, ocean, and atmospheric sciences; and social, political, and economic sciences. Other resources leveraged could include the Jen-Hsun and Lori Huang Collaborative Innovation Complex and new Earth-2 supercomputer, which will come online in 2025; the Gaulke Center for Marine Innovation and Technology; the Center for Transformative Environmental Monitoring; the Hatfield Marine Science Center and affiliates. Oregon State University is a land, sea, air, space, and sun grant institution with agricultural extension and experiment stations located throughout the state.

Oregon State University, College of Agricultural Sciences and the Department of Biological & Ecological Engineering are committed to maintaining and enhancing a collaborative and inclusive community that strives for equity and equal opportunity. All employees of the department are responsible for helping to ensure that these goals are achieved. In addition, all faculty members will design, develop, maintain, and/or carry out department programs to ensure that all people have equal program participation opportunities. There is an expectation that, as part of your role in the college, you embody and advance the principles and practices conveyed in the [CAS](#)

**CARE Commitment** document. Outputs and impacts of efforts to promote equity, inclusion, and diversity are expected to be included in promotion and tenure dossiers.

This position carries the general and specific responsibilities of a faculty member described in the Faculty Handbook and the promotion and tenure guidelines of Oregon State University. These include effective research, teaching, and/or extension programs, demonstrable scholarship, and active professional development.

## Why OSU?

### **Working for Oregon State University is so much more than a job!**

Oregon State University is a dynamic community of dreamers, doers, problem-solvers and change-makers. We don't wait for challenges to present themselves — we seek them out and take them on. We welcome students, faculty and staff from every background and perspective into a community where everyone feels seen and heard. We have deep-rooted mindfulness for the natural world and all who depend on it, and together, we apply knowledge, tools and skills to build a better future for all.

### **FACTS:**

- Top 1.4% university in the world
- More research funding than all public universities in Oregon combined
- 1 of 3 land, sea, space and sun grant universities in the U.S.
- 2 campuses, 11 colleges, 12 experiment stations, and Extension programs in all 36 counties
- 7 cultural resource centers that offer education, celebration and belonging for everyone
- 100+ undergraduate degree programs, 80+ graduate degrees plus hundreds of minor options and certificates
- 35k+ students including more than 2.3k international students and 10k students of color
- 217k+ alumni worldwide
- For more interesting facts about OSU visit: <https://oregonstate.edu/about>

### **Locations:**

Oregon State has a statewide presence with campuses in Corvallis and Bend, the OSU Portland Center and the Hatfield Marine Science Center on the Pacific Coast in Newport.

Oregon State's beautiful, historic and state-of-the-art main campus is located in one of America's best college towns. Corvallis is located close to the Pacific Ocean, the Cascade mountains and Oregon wine country. Nestled in the heart of the Willamette Valley, this beautiful city offers miles of mountain biking and hiking trails, a river perfect for boating or kayaking and an eclectic downtown featuring local cuisine, popular events and performances.

### **Total Rewards Package:**

Oregon State University offers a [comprehensive benefits package](#) with benefits eligible positions that is designed to meet the needs of employees and their families including:

- Medical, Dental, Vision and Basic Life. OSU pays 95% of premiums for you and your eligible dependents.
- Free confidential mental health and emotional support services, and counseling resources.
- Retirement savings paid by the university.
- A generous paid leave package, including holidays, vacation and sick leave.
- Tuition reduction benefits for you or your qualifying dependents at OSU or the additional six Oregon Public Universities.
- Robust Work Life programs including Dual Career assistance resources, flexible work arrangements, a Family Resource Center, Affinity Groups and an Employee

Assistance Program.

Future and current OSU employees can use the [Benefits Calculator](#) to learn more about the full value of the benefits provided at OSU.

## Key Responsibilities

### 65% Research & Scholarship

Establish a nationally and internationally recognized, externally funded research program in biosystems modeling and closely related fields. Expectations include:

- Advising and mentoring graduate students, post-doctoral scholars, research technicians, undergraduate students, and others involved in the research program;
- Generate scholarly outputs in the form of peer-review journal articles and other accepted forms of scholarship reflecting your research activities;
- Secure competitive external funding to support the research program.
- Serve as an investigator on a USDA-NIFA Hatch collaborative or Hatch multistate project.

### 25% Teaching & Advising

- Develop and deliver 2-3 courses per year at the undergraduate and/or graduate level related to biosystems modeling, sustainable energy systems, analysis of coupled human-natural systems, or similar topics. Specific assignments will be developed in collaboration with the Dept. Head based on unit needs and expertise of the incumbent. Modality may include a combination of in-person, hybrid, or ECampus delivery of instruction.

### 10% Service

The incumbent is expected to:

- Advance their professional discipline through service to professional organizations.
- Serve the University and general public by providing timely science-based information to the public including through engagement with extension, outreach activities, trade organizations, popular media, and/or community-engaged or stakeholder-driven research.
- Assume departmental duties and participate in university and college service in consultation with the Dept. Head.

## What You Will Need

Ph.D. in Agricultural Engineering, Environmental Engineering, Environmental Science, Geoscience, Civil Engineering, or in a closely related field with expertise in modeling and advanced data analysis of biological, ecological, and/or socioecological systems.

Demonstrated ability work independently and cooperatively within a multi-disciplinary team.

Record of scholarly achievement as evidenced by publications in peer-reviewed journals and presentation of scientific findings.

Demonstrated ability to communicate effectively with diverse audiences.

Demonstrated commitment to promoting and enhancing diversity, equity, and inclusion.

This position is designated as a critical or security-sensitive position; therefore, the incumbent must successfully complete a criminal history check and be determined to be position qualified as per University Standard: 05-010 et seq. Incumbents are required to self-report convictions and those in youth programs may have additional criminal history checks every 24 months.

**What We Would Like You to Have**

- Demonstrated engagement with, and leadership in, the scholarly community.
- Demonstrated experience in formal or informal education, including classroom instruction, extension teaching, or other education delivery methods.
- Demonstrated ability to secure federal, state, and/or industry competitive funding to support a research program.
- Licensed Professional Engineer or potential to obtain licensure
- Record of/Commitment to work with underrepresented/underserved students or other audiences.
- Life experience, education, activities and/or training that broaden capacity to equalize learner success or impact underserved audiences.

**Working Conditions / Work Schedule** Travel for field research and presentations. Work may take place in varying field conditions and environments. Evening and/or weekend work may be required for conference travel and research work in the field and laboratory.

**Pay Method** Salary

**Pay Period** 1st through the last day of the month

**Pay Date** Last working day of the month

**Recommended Full-Time Salary Range** Salary is commensurate with skills, education and experience

**Link to Position Description** [https://jobs.oregonstate.edu/position\\_descriptions/147141](https://jobs.oregonstate.edu/position_descriptions/147141)

#### Posting Detail Information

**Posting Number** P07588UF

**Number of Vacancies** 1

**Anticipated Appointment Begin Date** 09/01/2024

**Anticipated Appointment End Date**

**Posting Date** 12/06/2023

**Full Consideration Date** 01/14/2024

**Closing Date** 02/11/2024

**Indicate how you intend to recruit for this search** Competitive / External - open to ALL qualified applicants

**Special Instructions to Applicants** **To ensure full consideration, applications must be received by January 14, 2024.** Applications will continue to be accepted after the full consideration date, until a sufficient applicant pool has been achieved or the position is filled. The closing date is subject to change without notice to applicants.

When applying you will be required to attach the following electronic documents:

- 1) A copy of your current Curriculum Vitae;
- 2) A Cover Letter addressing each of the required qualifications and the preferred qualifications listed in this announcement;
- 3) A 1-Page statement of research interest;

4) A 1-Page statement on your teaching philosophy;

5) A 1-page diversity statement on your commitment to fostering diversity. After reviewing the OSU mission statement at <http://leadership.oregonstate.edu/trustees/oregon-state-university-mission-statement> and the emphasis on diversity, please state how your background and experience has prepared you to be effective in an environment that values diversity.

You will also be required to submit the names of at least three professional references, their e-mail addresses and telephone numbers as part of the application process.

For additional information please contact:

Jennifer Cohen  
Jennifer.cohen@oregonstate.edu

OSU commits to inclusive excellence by advancing equity and diversity in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community.

OSU will conduct a review of the National Sex Offender Public website prior to hire.

This position is designated as a critical or security-sensitive position; therefore, the incumbent must successfully complete a criminal history check and be determined to be position qualified as per University Standard 05-010 et seq. Incumbents are required to self-report convictions and those in youth programs may have additional criminal history checks every 24 months. Offers of employment are contingent upon meeting all minimum qualifications including the criminal history check requirement.

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## Supplemental Questions

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Required fields are indicated with an asterisk (\*).

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## Documents Needed to Apply

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### Required Documents

1. Cover Letter
2. Curriculum Vitae
3. Statement of Research
4. Statement of Teaching
5. Diversity Statement

### Optional Documents

1. REQUIRED for Verification of Veteran Status (DO NOT upload any unrelated documentation - information uploaded to this field will be removed once reviewed)