

HUMBOLDT STATE UNIVERSITY



Vacancy Announcement Faculty Tenure-Track Positions Starting August 2022 Cluster Hire for New Engineering Programs, Polytechnic Planning Process JOB # 2223-13

Humboldt State University is a Hispanic-Serving Institution (HSI) that strives to foster an equitable and inclusive community that supports our students of diverse backgrounds. HSU is committed to achieving the goals of equal opportunity and endeavors to employ faculty and staff of the highest quality committed to working in a multicultural and multiracial community that reflects the diversity of the state.

DESCRIPTION: Humboldt State University (HSU) invites applicants for a cluster hire to support development of several new Engineering programs as part of our polytechnic planning process. We are targeting the hiring of three (3) faculty members in this cluster. These new faculty members will join the existing faculty to develop three (3) new engineering programs that are expected to launch Fall 2023: **Energy Systems Engineering (B.S.)**, **Mechanical Engineering (B.S.)**, and **Engineering and Community Practice (M.Eng)**. New faculty may contribute to existing engineering programs as well, including Environmental Resources Engineering (B.S.) and two options in the Environmental Systems masters program (M.S.): Environmental Resources Engineering and Energy, Technology, and Policy.

The development of new Engineering programs is part of the polytechnic planning process that is ongoing at HSU. At the behest of the California State University, HSU is in the process of [conducting a self-study](#) to become designated as the state's third polytechnic university (along with Cal Poly San Luis Obispo and Cal Poly Pomona). This momentous opportunity reflects on HSU's excellence. As a polytechnic, HSU would be able to leverage its strengths and help meet important needs for the North Coast and California.

The focus of this cluster hire is to bring in expertise that will broaden and strengthen the Engineering offerings at HSU in response to this opportunity. We anticipate that the new faculty members who join us on campus in Fall 2022 will be able to collaborate in designing, developing, and launching new programs that will shape the future of engineering education and research at HSU. Based on the emerging vision for new programs in Mechanical Engineering, Energy Systems Engineering, and the Masters of Engineering and Community Practice, we have identified a range of needs described below. We expect applicants will be prepared to contribute in one or more of these areas (but not all of them!).

We are interested in applicants whose background prepares them to teach in one or more of the following **methodological and educational priority areas**:

- Community-based Engineering Practice and Research
- Data Analysis and Computational Methods
- Energy Systems Engineering
- Environmental Engineering
- First-Year Engineering Experiences

- Mechanical Engineering
- Mechanical, Energy and/or Environmental Systems Modeling
- Undergraduate Engineering Education

We are interested in candidates whose scholarship and teaching supports one or more of these **application priority areas** and other societally-relevant priorities similar to those on this list:

- Air Quality (outdoor and indoor)
- Aquaculture
- Biomechanics
- Broadening Participation in Engineering Education
- Building Energy Systems
- Climate Change Adaptation and Mitigation
- Computational Methods for Engineering
- Diversity and Inclusion in Engineering
- Energy storage systems and materials
- Environmental modeling
- Environmental Policy
- Environmental sensors and nanotechnology
- Heat Transfer
- Heating, Ventilation, and Air Conditioning Systems
- Identity Development of Diverse Engineers
- Indigenous Engineering and Design
- Low Impact Development
- Low-carbon Industrial Processes
- Material Science
- Mechanical System Design
- Mechanical vibrations and/or acoustics
- Mechatronics and Robotics
- Natural Treatment Systems
- Public Health
- Renewable Energy Systems
- Resilient Infrastructure Design and Management
- Social Justice in Engineering and Engineering Education
- Solid and hazardous waste
- Sustainable Building, Water and/or Environmental Systems
- Sustainable Manufacturing
- Sustainable transportation systems
- Traditional Ecological Knowledge
- Wind power, including offshore wind

As an institution, HSU is committed to eliminating the equity gap in all student populations with dynamic, student-centered practices and policies that fully engage the campus community. The ideal candidate will share HSU's commitment to helping its racially and socioeconomically diverse students succeed in their degree and career objectives.

We value the ability to serve students from a broad range of cultural heritages, socioeconomic backgrounds, genders, abilities, and orientations. Therefore, we prioritize applicants who demonstrate they understand the benefits diversity brings to a professional educational community. The successful candidate will be an equity-minded individual committed to collaborating with faculty, classified staff, administration, and students who are also committed to closing equity gaps.

RANK, SALARY AND BENEFITS: We seek to fill these positions at the Assistant or Associate Professor rank; the rank and salary will be dependent on each appointee's qualifications and experience. The current California State University Salary Schedule is available at: <http://www.humboldt.edu/aps/docs/salary/Salary-Schedule.pdf>

Humboldt State University provides an excellent benefits package for faculty. Information about benefits plans can be found at: <http://www.humboldt.edu/forms/node/934>.

PROFESSIONAL QUALIFICATIONS: A Ph.D. or equivalent in Engineering or a related science field from an accredited college or university is required at the time of appointment. ABD will be considered. If ABD, degree requirements must be completed by August 2022. Registration as a professional engineer is also desirable. We anticipate that candidates will have earned degrees in the following fields but also welcome and encourage applicants with other appropriate training: Environmental Engineering; Mechanical Engineering; Systems Engineering; other relevant Engineering disciplines; Interdisciplinary approaches including significant engineering emphasis. Registration as a professional engineer is also desirable.

The successful candidate must demonstrate the following:

- ✓ Academic and/or professional background necessary to contribute to the development and growth of Engineering Programs that serve a diverse student population, with focus areas described above;
- ✓ Potential for, or evidence of effective teaching using a variety of methodologies;
- ✓ Potential for, or evidence of a robust research agenda, scholarship and creative activities;
- ✓ Potential for, or evidence of involving students in research and scholarly activity;
- ✓ Ability and/or interest to teach a broad range of undergraduate and graduate courses that meet program needs;
- ✓ Evidence of ability to communicate engineering design and analysis in a variety of contexts;
- ✓ Commitment to developing applied engineering design projects that engage students in serving authentic community needs;
- ✓ Ability to develop and teach courses in fundamental and applied engineering topics;
- ✓ Commitment to and/or experience promoting and fostering a learning environment that is supportive of individuals from diverse backgrounds;
- ✓ Ability to collaborate and communicate effectively with diverse students and colleagues;
- ✓ Demonstrated sensitivity to cross-cultural perspectives and experiences;
- ✓ Commitment to contribute to the departments' mission to support minoritized students; and
- ✓ Commitment to participating in professional development opportunities that build effectiveness in areas of inclusion, intercultural communication, and advancing diversity.

Preferred qualifications for this position include:

- ✓ Evidence for potential for excellence in teaching, scholarship, and service;
- ✓ Experience within the private and/or public sector working with clients, stakeholders, and communities to develop engineering projects and/or analysis;
- ✓ Ability to develop interdisciplinary scholarship that incorporates multiple epistemic frameworks including engineering;
- ✓ Ability to contribute to developing and supporting place-based learning communities;
- ✓ Ability to develop, implement, and assess programs in ways that advance equitable and inclusive learning communities;
- ✓ Research interest and methodologies that contribute to the understanding of diversity and equal opportunity; and
- ✓ Licensure as a professional engineer.

At the time of appointment, the successful candidate, if not a U.S. citizen, must have authorization from the Bureau of Citizenship and Immigration Services to work in the United States. For information on the University policy on support for non-immigrant probationary faculty visa acquisition, please visit the Faculty Immigration Resources page:
<https://extended.humboldt.edu/international-programs/immigration/faculty>.

Evidence of degree(s) is required at time of hire.

PROFESSIONAL DUTIES: Candidates should be committed to teaching excellence, building a strong research record, and serving the University, society, and the profession. Responsibilities include teaching for the Engineering program; the courses assigned to the candidate will include engineering classes in Mechanical Engineering, Energy Systems Engineering, and/or Environmental Resources Engineering that align with the candidate's area of expertise. Course assignments will also include lower division engineering courses such as statics, dynamics, mechanics of materials, thermodynamics, fluid mechanics, computational methods, engineering graphics, data analysis, introduction to design, and introduction to engineering. Instructional assignments will be consistent with the programmatic needs of the department and students.

Candidates should be interested in undergraduate and graduate research programs and in securing external funding for research. Opportunities exist for participating in two options of the Environmental Systems graduate program: Environmental Resources Engineering (ERE) and Energy Technology and Policy (ETaP), and the Masters of Engineering and Community Practice graduate degree.

Candidates are expected to take on service responsibilities including: advising students, participating in campus and system-wide communities, maintaining office hours, working collaboratively and productively with colleagues, outreach and support to the broader community and society, and participating in traditional academic functions.

Probationary faculty are provided ongoing mentorship to be a successful member of the faculty. During the first two years of the probationary period, teaching responsibilities will be reduced by approximately one course each semester. The reduced teaching load supports the establishment of research, scholarship and/or creative activities required for retention, tenure, and promotion.

Humboldt State also continues to build unique and innovative learning opportunities for students, bridging the sciences, social sciences, arts and humanities. HSU is a leader in “place-based learning communities” that build relationships between students, faculty, staff, administrators, and the community. These communities incorporate environmental and social responsibility.

GENERAL INFORMATION: The Environmental Resources Engineering department is part of the College of Natural Resources and Sciences at Humboldt State University. The department is one of the largest, oldest, and most respected ABET-accredited environmental engineering programs in the country. Students in ERE have the opportunity to engage in a variety of topical applications, including Water Resources, Water Quality, Water Treatment, Ecological Processes, Air Quality, Energy Systems, Renewable Energy, and others.

As part of the plan for HSU to become a polytechnic university, the Engineering department is currently developing several new programs that will expand the opportunities for students and faculty on campus. All engineering programs at HSU will be coordinated and offered by an expanded Engineering department. These programs are being designed around a common “first two years” curriculum for the lower division and will offer three Bachelors of Science degrees in Engineering to undergraduates: Environmental Resources (existing), Energy Systems (new), and Mechanical Engineering (new). The Engineering programs will also support two masters programs: Masters of Engineering and Community Practice (a new, joint, one-year masters offered in collaboration with the Native American Studies department) and a two-year, research-based Masters of Science in Environmental Systems with options in Environmental Resources Engineering and Energy, Technology, and Policy. Professors who join the faculty through this cluster hire will have the opportunity to participate in and shape the development of these new programs.

HSU emphasizes hands-on learning and existing engineering students engage in frequent labs, field trips, and team projects, while enjoying a cooperative learning environment in classes that range from 12-70 students. The majority of engineering classes currently have fewer than 25 students. The engineering department and university value diversity, inclusion and equity. Currently two-thirds of the tenure-track faculty identify as women, three of ten tenure-track faculty are BIPOC, 30% of ERE students self-identify as underrepresented, 40% of the students are first in family to attend university and 40% of the students are Pell Grant eligible.

The Engineering department has direct faculty and student links to the world-famous Arcata Marsh and Wildlife Sanctuary, Schatz Energy Research Center, and the Campus Center for Appropriate Technology. Opportunities exist to collaborate with and/or conduct research through these entities.

Further information can be found online:

- Environmental Resources Engineering Department: <http://engineering.humboldt.edu/>
- College of Natural Resources and Sciences: <https://cnrs.humboldt.edu/>
- Humboldt State University: <https://www.humboldt.edu/>

Humboldt State University sits on the traditional homelands of the Wiyot people in what is currently called Arcata, CA. The Wiyot people call the area Goudi'ni (over in the woods). The Humboldt State University campus in Northern California is in close proximity to several thriving Native American tribes and communities. Humboldt State currently has the largest percentage of Native American students in the CSU system and has over 30 Native American faculty and staff, many from local California Indian tribes. HSU is home to a number of leading Native American programs including the Indian Tribal Education and Personnel Program (ITEPP) and the Indian Natural Resource, Science and Engineering Program (INRSEP). There are also

many opportunities at HSU to conduct research, teaching and community work on Native American history and cultures in Special Collections at the HSU library. The Humboldt Room in the Library has fantastic resources for tribally focused archive materials from the region. HSU strives to build a supportive and inclusive Native community and engages with Native communities through various initiatives and opportunities like the annual California Indian Big Time and Indigenous People's Week and a chance to network with other faculty and staff as part of the HSU Council of American Indian Faculty and Staff. For more information, please visit: www.humboldt.edu/nasp

APPLICATION: Qualified candidates should submit the following materials through Interfolio:

Click here to apply : <http://apply.interfolio.com/100239>

- ✓ Letter of Application;
- ✓ Curriculum Vitae;
- ✓ Diversity Statement, include your understanding of the barriers facing Black, Indigenous, and other people of Color (BIPOC) in higher education and your past and/or future contributions to inclusive student success, including equitable access and outcomes through teaching and professional or public service. Applicants are encouraged to highlight any contributions they have made towards the inclusivity of students from the LGBTIQ+ community. (2 page limit);
- ✓ Statement of Teaching Philosophy, including how it relates to supporting students who have been historically marginalized and/or minoritized;
- ✓ Statement of Research Interests;
- ✓ Teaching Evaluations, if available;
- ✓ Graduate Transcripts (unofficial copies are sufficient for initial review); and
- ✓ Names and Contact Information for Three (3) Professional References.

Additional application materials may be requested at a later time.

Please direct any questions pertaining to this position, the Engineering programs, or Humboldt State University to:

Dr. Eileen Cashman, Search Committee Chair
Environmental Resources Engineering Department
Humboldt State University
One Harpst Street
Arcata, California 95521-8299
Phone: (707) 826-5776
Email: eileen.cashman@humboldt.edu

APPLICATION DEADLINE: This position is open until filled. First consideration will be given to completed applications received no later than **January 17, 2022**. Early response is encouraged.

** Additional opportunities in the Departments of Native American Studies & Environmental Resources Engineering are actively recruiting and available. Please view the vacancy announcements here: <https://hraps.humboldt.edu/faculty-employment-faculty>



See more photos at [Humboldt State University's Flickr page](#).

It is the responsibility of the applicant to provide complete and accurate employment information. Evidence of required degree(s), certifications(s), or licenses(s) will be required prior to the appointment date. A background check (including a criminal records check, employment verification, and education verification) must be completed satisfactorily as a condition of employment with the CSU. Certain positions may also require a credit check, motor vehicle report, and/or fingerprinting through Live Scan service. Adverse findings from a background check may affect the application status of applicants or continued employment of current CSU employees who apply for the position.

All CSU employees are obligated to respond to and report incidents of sexual harassment and sexual violence. Compliance with the California Child Abuse and Neglect Reporting Act (CANRA) and CSU Executive Order 1083 Revised July 21, 2017 (EO 1083) is a condition of employment. CSU employees in positions with duties that involve regular contact with children or positions which supervise such employees are designated as Mandated Reporters under CANRA and are required to comply with the requirements set forth in EO 1083. Upon appointment to this position, the successful candidate(s) will be notified of and required to acknowledge their CANRA reporting status. New employees hired by the CSU for the first time who first become CalPERS members on or after July 1, 2017 are subject to a 10 year vesting period for retiree health and dental benefits.

Humboldt State University is a Title IX/Affirmative Action/Equal Opportunity Employer. We consider qualified applicants for employment without regard to race, religion, color, national origin, ancestry, age, sex, gender, gender identity, gender expression, sexual orientation, genetic information, medical condition, disability, marital status, protected veteran status, or any other legally protected status. If accommodations need to be made during the recruitment and interview process, please contact Human Resources at (707) 826-3626 or hsuhr@humboldt.edu

Humboldt State University is part of the 23-campus California State University system. The University has a comprehensive arts and sciences curriculum, which is recognized nationally for its high academic quality. Founded in 1913, HSU is one of the premier public institutions in the western United States; it is a residential and rural campus with an enrollment of approximately 6,400 students. The main campus is located in Arcata, California, in the northwestern part of the state along the coast, situated among redwood trees in an area that offers unmatched scenic beauty, moderate climate and opportunities for outdoor activities. The surrounding Humboldt County locale has a population of around 130,000. The community offers an excellent range of businesses, services and cultural activities/performances. The local schools are ranked in the top performance percentiles, both nationally and in the state. Additional information about Humboldt State University can be found at: <http://www.humboldt.edu>.