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Job Title Associate/Full Professor - Research Area: High

Intensity Lasers

Department Electrical and Computer Engineering

https://www.engr.colostate.edu/ece/

Institution Colorado State University

Fort Collins, Colorado

Date Posted Oct. 14, 2025

Application Deadline Dec. 31, 2025

Position Start Date Fall 2026

Job Categories Associate Professor

Professor

Academic Field(s) Engineering Physics

Electrical and/or Electronics

Engineering - Other

Optics & Optical Engineering

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Job Description

As part of its commitment to expand its world-recognized high intensity laser science and technology program with applications that include laser-matter interactions, the Department of Electrical and Computer Engineering (ECE) at Colorado State University (CSU) invites applications and nominations for a tenure track faculty position to start in Fall 2026. Candidates are sought with interests that complement and expand upon current research and teaching activities in the Department in the area of high intensity laser-matter interactions, high power lasers, and their applications to high energy density



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science including laser fusion. ECE is home to the Advanced Lasers for Extreme Photonics Center, and is a very active node of LaserNet US, a Department of Energy (DOE) network of the most powerful lasers in North America. ECE is the lead of the RISE Fusion Energy hub funded by DOE, and a co-lead of the NSF/Moore Foundation Center for Coatings Research. In support of this research CSU is building the \$ 150 M ATLAS facility to be completed in early 2027 that will house -state-of-the-art petawatt class lasers. ATLAS is a public-private partnership with Marvel Fusion that will offer unique capabilities to advance high energy density science and laser fusion. The candidate will be expected to embrace the university research and educational mission by contributing to establish a vibrant sponsored research in high power laser- matter interactions, ultra-intense lasers and applications, embracing the opportunity to work collaboratively with interdisciplinary teams and educating next generation of leaders. This is a full-time, nine-month faculty position. Additional details on the position, including required qualifications, and application materials and their deadline for submission can be found at:

https://jobs.colostate.edu/postings/167533

Essential Job Duties

Research - 50%

- Expected to be active member of ATLAS (Advanced Technology Lasers for Applications and Science Facility), contributing to research efforts of the new facility and its future upgrades, teaming up with CSU faculty and researchers to cement and further grow the Center into one of the world leading institutes in high-power lasers, high energy density science and technology, and laser fusion.
- Contribute to educate and train graduate and undergraduate students that will have successful careers.
- Publish in leading peer-reviewed journals and present research results at national and international conferences.

Teaching - 40%

- Provide intellectual leadership and excellence in teaching undergraduate and graduate courses in electrical and/or computer engineering and/or SMSE.
- Develop new courses at the graduate level within the candidate's area of research focus.

Service and Outreach - 10%

• Serve the academic community and contribute to university outreach.



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• Serve on department, college, and university level committees where appropriate.

Required Job Qualifications

- PhD degree in electrical engineering, physics or related discipline.
- Evidence of a strong scholarly activity in the form of research publications and extra-mural funding in areas relevant to the position.
- Commitment to the responsibilities of a faculty member education, research, and service as demonstrated in the application.
- Research focus in areas within the field of high power laser- matter interactions, ultra-intense lasers and applications.
- At least six years of experience in ultra-intense laser matter interactions.
- The candidate will have the potential to conduct vibrant sponsored research in high power lasermatter interactions, ultra-intense lasers and applications; the ability to effectively teach at the graduate and undergraduate levels; and the interest to serve the department, university, and professional community.

Preferred Job Qualifications

Full professor:

- Strong, internationally recognized research contributions.
- Ability to garner significant external support.
- Strength of publication record commensurate with experience, including impact, and quality of publications.
- Complement/expand upon the department's current research and teaching activities.
- Potential for continued extraordinary scholarship.
- Teaching and mentoring experience and enthusiasm.
- Ability to establish collaborations with other CSU faculty and researchers of the Advanced Center for Extreme Photonics Center in conducting innovative research utilizing the ATLAS facility.

EEO/AA Policy

Colorado State University is committed to providing an environment that is free from discrimination and harassment based on race, age, creed, color, religion, national origin or ancestry, sex, gender,



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disability, veteran status, genetic information, sexual orientation, gender identity/expression, or pregnancy in its employment, programs, services and activities, and admissions, and, in certain circumstances, marriage to a co-worker. The University will not discharge or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. Colorado State University is an equal opportunity and equal access institution and affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations, and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services.

The Title IX Coordinator is the Director of the Office of Title IX Programs and Gender Equity, 123 Student Services Building, Fort Collins, CO 80523-0160, (970) 491-1715, titleix@colostate.edu.

The Section 504 and ADA Coordinator is the Director of the Office of Equal Opportunity, 101 Student Services Building, Fort Collins, CO 80523-0160, (970) 491-5836, oeo@colostate.edu.

The Coordinator for any other forms of misconduct prohibited by the University's Policy on Discrimination and Harassment is the Vice President for Equity, Equal Opportunity and Title IX, 101 Student Services Building, Fort Collins, Co. 80523-0160, (970) 491-5836, oeo@colostate.edu.

Any person may report sex discrimination under Title IX to the Office of Civil Rights, Department of Education.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Alauna Sutton

Electrical and Computer Engineering

Colorado State University

Cd 1373, Ece

Fort Collins, CO 80523

Phone Number 970-491-7275



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