

Assistant Professor in Fusion Energy Engineering
University of California, San Diego

Direct Link: <https://www.AcademicKeys.com/r?job=248355>

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Posted Nov. 6, 2024, set to expire Mar. 10, 2025

Job Title	Assistant Professor in Fusion Energy Engineering
Department	Mechanical and Aerospace Engineering https://mae.ucsd.edu/
Institution	University of California, San Diego La Jolla, California
Date Posted	Nov. 6, 2024
Application Deadline	Open until filled
Position Start Date	Jul. 1, 2025
Job Categories	Assistant Professor
Academic Field(s)	Nuclear Engineering Physics
Apply Online Here	https://apol-recruit.ucsd.edu/JPF04062
Apply By Email	
Job Description	

Position title: Assistant Professor

Salary range: A reasonable salary range estimate for this position is \$103,700 - \$129,600.

The posted UC Academic salary scales set the minimum pay as determined by rank and/or step at appointment. See the following table(s) for the salary scale(s) for this position:

https://www.ucop.edu/academic-personnel-programs/_files/2023-24/oct-2023-acad-salary-scales/t3.pdf.

The base salary range, from the salary table(s), for this position is \$103,700 - \$129,600. "Off-scale salaries" and other components of pay, i.e., a salary that is higher than the published system-wide

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salary at the designated rank and step, are offered when necessary to meet competitive conditions, qualifications, and experience. Additional UCSD salary information can be found here:

<https://aps.ucsd.edu/compensation/apo-salary.html>

The Department of Mechanical and Aerospace Engineering (MAE), at the University of California, San Diego, invites applications for an Assistant Professor position in Fusion Energy Engineering.

We seek exceptional candidates with research interests in fusion engineering including, but not limited to:

- 1) Tritium breeding and fuel processing systems for magnetic and/or inertial fusion energy systems
- 2) Efficient high-repetition rate lasers, energy-relevant targets and integration of the coupled driver-target-chamber system, and/or iii) fusion systems engineering studies that incorporate known physics and technology constraints, economic and technical operational requirements, electricity generation and thermal energy end uses, and integration of fusion energy with other low-carbon/zero-carbon energy systems.

The activities of the newly appointed Assistant Professor will be synergistic with those of existing Department faculty working in fusion plasma physics, laser-plasma interactions and pulsed power, plasma-material interactions, materials in extreme conditions, mechanics of materials and other related areas.

The required job duties for this position encompass:

- 1) Establishing a robust research program, which involves the development of grant proposals and securing funding.
- 2) Teaching university students at both the undergraduate and graduate levels;
- 3) Maintaining professional competency in related discipline;
- 4) Participating in a variety of service activities.

In this role, we expect that the successful candidate will showcase significant contributions that reflect their ongoing scholarly progress in their respective field through the following attributes:

- 1) Consistently outstanding teaching performance;
- 2) Exceptional scholarly achievements;
- 3) Consistent delivery of high-caliber research and work;

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4) A deep passion for creative endeavors

For more information on the Professorial Series visit:

https://www.ucop.edu/academic-personnel-programs/_files/apm/apm-220.pdf

Department: <https://mae.ucsd.edu/>

Qualifications

Basic qualifications (required at time of application)

A Ph.D (or advancement to candidacy) is required in the area of Fusion Energy Engineering or a related discipline at the time of application

Additional qualifications (required at time of start)

Ph.D. will be completed, awarded and conferred by the time you start the position.

Preferred qualifications

Preferred candidates will have demonstrated accomplishments in areas contributing to diversity, equity, and inclusion, such as increasing the access and success of underrepresented students or faculty in engineering. Candidates should have a measurable plans to participate in the School's diversity initiatives (<https://jacobsschool.ucsd.edu/about/diversity>).

Application Requirements

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
-

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Cover Letter

- Statement of Research
- Statement of Teaching
- Statement of Contributions to Diversity - Applicants should summarize their past or potential contributions to diversity. See our [Faculty Equity](#) site for more information.
- Misc / Additional (Optional)

Reference requirements

- 3-5 required (contact information only)

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EEO/AA Policy

The University of California, San Diego is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, covered veteran status, or other protected categories covered by the UC nondiscrimination policy.

For the University of California's Affirmative Action Policy please visit:

<https://policy.ucop.edu/doc/4010393/PPSM-20>.

For the University of California's Anti-Discrimination Policy, please visit:

<https://policy.ucop.edu/doc/1001004/Anti-Discrimination>.

As a University employee, you will be required to comply with all applicable University policies and/or

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collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.

The University of California prohibits [smoking and tobacco](#) use at all University controlled properties.

The UC San Diego Annual Security & Fire Safety Report is available online at: <https://www.police.ucsd.edu/docs/annualclery.pdf>. This report provides crime and fire statistics, as well as institutional policy statement & procedures. Contact the UC San Diego Police Department at (858) 534-4361 if you want to obtain paper copies of this report.

Contact Information

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

Contact UCSD
Mechanical and Aerospace Engineering
University of California, San Diego
La Jolla, CA