

Associate or Full Professor in Fusion Energy Engineering
University of California, San Diego

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Posted Nov. 7, 2024, set to expire Mar. 10, 2025

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|-----------------------------|---|
| Job Title | Associate or Full 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. 7, 2024 |
| Application Deadline | Open until filled |
| Position Start Date | Jul. 1, 2025 |
| Job Categories | Associate Professor Professor |
| Academic Field(s) | Nuclear Engineering Physics |
| Apply Online Here | https://apol-recruit.ucsd.edu/JPF04064 |
| Apply By Email | |
| Job Description | |

Position title: Associate Professor, Full Professor

Salary range: A reasonable salary range estimate for this position is \$124,600 - \$224,900. 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 \$124,600 - \$224,900. "Off-scale

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salaries” and other components of pay, i.e., a salary that is higher than the published system-wide 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 Associate or Full Professor position in Fusion Energy Engineering.

We seek exceptional candidates with a demonstrated record of accomplishment who will establish a vigorous fusion materials research program.

Research aimed at developing solid and/or liquid plasma-facing components with adequate lifetime, low radiological activation, and low tritium retention under fusion conditions, and that can be integrated with both high-performance fusion plasmas and with the underlying structural material/coolant system of the tritium breeding blanket is of particular interest.

Candidates with demonstrated interests in other critical fusion engineering topics, including tritium breeding blanket development, tritium fuel cycle processing and fueling, and high-performance low-activation materials in magnetic and/or inertial fusion energy reactors are also encouraged to apply. The activities of the newly appointed 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 & 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)

Applicants must possess a PhD or have advanced to candidacy at the time of application, in the area of Fusion Energy Engineering or a related discipline.

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 desire 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)
- Institutional Reference Check - Authorization to Release Form
Applicants must complete, sign and upload this form. See Institutional Reference Check (https://aps.ucsd.edu/recruitment/search-plan/background_check.html) for more information
Please visit: https://aps.ucsd.edu/recruitment/applicant_resources/index.html for more information.

Institutional Reference Check Form:

https://aps.ucsd.edu/_files/oars/AUTHORIZATION%20TO%20RELEASE%20FORM-Ver.2022.pdf

Reference requirements

- 5-8 required (contact information only)

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EEO/AA Policy

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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 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