

Faculty Position in Renewable Energy
Assistant Professor, VPAA # 2022/23-66

The Department of Electrical and Computer Engineering at San Diego State University invites applications for a full-time tenure-track faculty position in *Renewable Energy* at the rank of Assistant Professor, with an anticipated start date of August 2022. Qualified applicants must have expertise in renewable energy systems that may include one or more of the following areas: (1) renewable energy systems grid integration and its scientific foundations, including dynamics, controls, optimization, and learning, (2) advanced power electronics for grid applications and transportation electrification, (3) big data analytics, forecasting, and artificial intelligence for renewable energy applications, and (4) cybersecurity for the electric grid with the high-penetration level of renewable energy resources.

Applicants must hold a Ph.D. in Electrical Engineering or closely related discipline. The successful candidate will be expected to establish and maintain an active externally funded research program, achieve excellence in teaching at the undergraduate and graduate levels, advise students, and participate in departmental governance and university service. The ability to interact with other research groups and create/maintain ties with major industrial players within the broader energy community will be an asset.

The Department of Electrical and Computer Engineering is strongly committed to excellence in both research and teaching at the graduate and undergraduate levels. The department offers an ABET-accredited B.S. degree program in Electrical Engineering and Computer Engineering, online and on-campus M.S. program in Electrical Engineering, and joint Ph.D. program in Electrical Engineering. The department is a consortium member of the NSF/ONR/EPRI funded CUSP™ (<http://cusp.umn.edu/>), DoE-EERE funded FEEDER (<http://www.feeder-center.org/>). The ECE department is part of Southern California Energy Innovation Network funded by California Energy Commission. The department also houses the DOE-funded Center for Electric Drive Transportation. Additional information about the department and university can be found at <http://electrical.sdsu.edu/> and <http://www.sdsu.edu>.

SDSU is a large, diverse, urban university and Hispanic-Serving Institution with a commitment to diversity, equity, and inclusive excellence. Our campus community is diverse in many ways, including race, religion, color, sex, age, disability, marital status, sexual orientation, gender identity and expression, national origin, pregnancy, medical condition, and covered veteran status. We strive to build and sustain a welcoming environment for all. SDSU is seeking applicants with demonstrated experience in and/or commitment to teaching and working effectively with individuals from diverse backgrounds and members of underrepresented groups.

The city of San Diego enjoys a mild climate year-round and is a family-friendly urban environment. The metropolitan area is a hub for several leading industries, including major energy companies, and it offers extensive opportunities for developing industrial research partnerships.

Review of the applications will begin immediately and will continue until the position is filled. Applicants must apply via Interfolio at <http://apply.interfolio.com/98712>. Requests for additional information should be directed to Prof. Satish Sharma, Search Committee Chair, via email ssharma@sdsu.edu.

We are seeking applicants with demonstrated experience in and/or commitment to teaching and working effectively with individuals from diverse backgrounds and members of underrepresented groups. Candidates must satisfy two or more of the eight Building on Inclusive Excellence (BIE) criteria. Candidates that meet BIE criteria: (a) are committed to engaging in service with underrepresented populations within the discipline, (b) have demonstrated knowledge of barriers for underrepresented students and faculty within the discipline, (c) have experience or have demonstrated commitment to teaching and mentoring underrepresented students, (d) have experience or have demonstrated commitment to integrating understanding of underrepresented populations and communities into research, (e) have experience in or have demonstrated commitment to extending knowledge of opportunities and challenges in achieving artistic/scholarly success to members of an underrepresented group, (f) have experience in or have demonstrated commitment to research that engages underrepresented communities, (g) have expertise or demonstrated commitment to developing expertise in cross-cultural communication and collaboration, and/or (h) have research interests that contribute to diversity and equal opportunity in higher education. Please indicate in a separate diversity statement how you meet at least two (2) of these criteria.

SDSU is the oldest institution of higher education in the San Diego region, with a campus and microsites in San Diego and locations in Southern California's Imperial Valley and Tbilisi in the Republic of Georgia. The highly diverse campus community has a student population of approximately 36,000. SDSU is included in the Carnegie Foundation's Doctoral Universities: High Research Activity category. Established in 1897, SDSU offers bachelor's degrees in 97 areas, masters in 84 and doctorates in 23. See <http://www.sdsu.edu> for more information. SDSU is a large, diverse, urban university and Hispanic-Serving Institution with a commitment to diversity, equity, and inclusive excellence. Our campus community is diverse in many ways, including race, religion, color, sex, age, disability, marital status, sexual orientation, gender identity and expression, national origin, pregnancy, medical condition, and covered veteran status. We strive to build and sustain a welcoming environment for all.

As part of its commitment to a safe and equitable "OneSDSU" community, SDSU requires that individuals seeking faculty employment provide at the time of application authorization to conduct background checks if they become a finalist for the position; applications without this authorization will be considered incomplete and not considered. A background check (including a criminal records check) must be completed before any candidate can be offered a position with the CSU. Failure to satisfactorily complete the background check may affect the application status of applicants or continued employment of current CSU employees who apply for the position.

The person holding this position is considered a “mandated reporter” under the California Child Abuse and Neglect Reporting Act and is required to comply with the requirements set forth in CSU Executive Order 1083 as a condition of employment.

SDSU is a Title IX, equal opportunity employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, gender identity and expression, marital status, age, disability, pregnancy, medical condition, or covered veteran status.