TURTLE MOUNTAIN COLLEGE

10145 BIA Rd 7, PO Box 340 Belcourt, ND 58316 | (701) 369-6060 | tm.edu

Solar Energy Instructor

Position Title: **Solar Energy Instructor**
Contract Term: **9-month Academic year**
Accountable To: **Dean of CTE**
Salary: **$64,011 (minimum)**

Summary of Position: To provide post-secondary, learner-centered instruction in Trades Department – Solar Energy as a member of an instructional team of full-time and adjunct instructors. Encourage a culture of learning that values mutual responsibility, life-long learning, as well as personal and professional development. To carry out the mission of the institution, to include incorporating the local culture throughout the curriculum.

The successful candidate will join our dynamic faculty and contribute to our growing program in renewable energy. The instructor will be responsible for teaching undergraduate courses, developing curriculum, conducting research, and engaging with students, industry partners, and the community to advance knowledge and application of solar energy technologies.

Key Responsibilities: Teach courses in solar energy, including but not limited to solar photovoltaics, solar thermal systems, and solar energy systems design.

- Develop and update curriculum to reflect advancements in solar energy technologies and industry needs.
- Mentor and advise students on academic and career goals related to solar energy.
- Conduct research and publish findings in reputable journals and conferences.
- Collaborate with industry partners to facilitate internships, research opportunities, and community engagement.
- Participate in departmental meetings, committees, and other service activities.

Instruction, Curriculum, & Student Learning

- Teach undergraduate and graduate-level courses in Solar Energy education, including solar energy pedagogy, methods and curriculum design.
- Prepare and maintain syllabi, instructional materials, assessments, and accurate academic records using Canvas.
- Deliver instruction using applied, experiential, and performance-based teaching methods, including solar energy techniques, lesson planning, classroom simulations, and supervised teaching experiences.
- Supervise and evaluate students in field experiences, practicums, and student teaching placements in collaboration with partner schools.
- Apply effective teaching strategies responsive to diverse learners, culture, language, and community context consistent with tribal higher education principles.
- Coordinate and assess courses and program components to ensure instructional quality, licensure alignment, and continuous improvement.
- Integrate culturally responsive teaching practices and Indigenous perspectives into solar energy curriculum and instruction.
- Assist in the development of new courses, endorsements, or program offerings aligned with solar energy standards and workforce needs.
- Provide timely feedback, academic support, and intervention to support student learning, retention, and licensure success.

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Advising, Recruitment, & Retention

- Provide academic and career advising from student entry through program completion and licensure.
- Post and maintain regular office hours in accordance with institutional policy.
- Assist students with academic planning, course sequencing, licensure requirements, and career pathways in solar energy education.
- Monitor student progress and implement proactive retention and student success strategies.
- Refer students to appropriate campus and community support services.
- Participate in recruitment activities, including outreach events, school visits, performances, and community engagement.
- Support student placement, licensure preparation, and employment in collaboration with education partners and placement offices.

Assessment & Student Learning Outcomes

- Develop, assess, and report student learning outcomes aligned with educator preparation standards, including Indigenous student learning outcomes.
- Evaluate student performance using multiple assessment methods such as lesson plans, performances, portfolios, observations, and reflective practice.
- Use assessment results to improve instruction, curriculum design, program effectiveness, and student support services.

Program, Service, & Institutional Responsibilities

- Establish and maintain partnerships with K–12 schools, school districts, and education agencies to support field experiences and workforce pipelines.
- Participate in program assessment, accreditation, licensure alignment, recruitment, retention, and continuous improvement initiatives.
- Participate in advisory committees, accreditation reviews, and educator preparation reporting requirements.
- Support and advise student organizations, ensembles, and solar energy education activities.
- Engage in community-based solar energy education, performances, and outreach initiatives.
- Participate in college events, committees, self-studies, and faculty governance.
- Maintain current knowledge of solar energy education standards, licensure requirements, and best practices in solar energy pedagogy.
- Perform other duties as assigned.

Scholarship & Professional Development

- Engage in ongoing professional development to remain current in solar energy education, pedagogy, and performance.
- Contribute through curriculum innovation, performances, presentations, conferences, grant development, or scholarly and professional publications, as appropriate.
- Participate in professional organizations and faculty development initiatives.
- Serve as a mentor, adjudicator, clinician, or contributor to professional or scholarly work, as appropriate.

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Minimum Qualifications:

- A minimum of an associate degree or its equivalent, as determined by the North Dakota State Board for Career & Technical Education Postsecondary Instructor Certification Standards.
- Demonstrated expertise in solar energy technologies, with a strong background in solar photovoltaics and/or solar thermal systems.
- Prior teaching experience at the college or university level is highly desirable.
- Excellent communication and interpersonal skills, with a commitment to student success and academic excellence.
- Ability to work collaboratively with faculty, staff, students, and industry partners.
- Willingness and ability to travel and teach at various hours and locations, as necessary.
- Acceptance of and willingness to support the role that tribal community colleges serve in higher education, specifically the mission, values, goals, culture, and objectives of Turtle Mountain Community College.

Written: 7/24

This institution is an equal opportunity provider.