

MINNESOTA STATE COLLEGE SOUTHEAST
invites applications for the position of:

Bicycle Design & Fabrication Faculty Position

OPENING DATE: Immediately

CLOSING DATE: Until filled

DESCRIPTION: Bicycle Design and Fabrication Technology Faculty

Minnesota State College Southeast seeks an energetic and dedicated individual for an **unlimited, full-time (1.0) Bicycle Design & Fabrication faculty member** to teach in the world's only Bicycle Design & Fabrication AAS program located on our campus in Red Wing, Minnesota. The successful candidate will be a skilled individual with experience in areas such as Machining, Rapid Prototyping, Material Processes, CAD/CAM and 3D modeling, and additive/subtractive manufacturing. Further, the successful candidate must be willing to coordinate industry partners, high school technical education colleagues, and community stakeholders to facilitate an integrated learning environment across southeast Minnesota.

The Bicycle Design and Fabrication program at Minnesota State College Southeast focuses on bicycle mechanics, construction and testing including hardware and accessories. The ideal candidate will not only be passionate about bicycling, but will also possess understanding of the production, construction, and/or development of metal and composite products. The program has recently received a generous grant to ensure a state-of-the-art facility, so the successful candidate will assist with the procurement of equipment, laboratory design, and will be charged with building a vibrant program that produces graduates with strong industrial design skills and knowledge of trends in fabrication, machining, and composites as they apply to the bicycling world and beyond.

The prospective candidate must be prepared to help build the most exciting, novel and innovative AAS program in the nation, and continue to learn while they are teaching and experimenting in this program. Our program continues to grow, and the incumbent must be willing to design courses and curriculum spanning metal fabrication, machining, prototyping, and computer-aided design competencies.

In addition to an appreciation for the art and science of bicycle design, this position is dedicated to excellence in teaching. The successful candidate will become part of a creative, vibrant, student-centered learning community and will demonstrate a commitment to interdisciplinary and cross-cultural perspectives. The college is committed to reflecting a diversity of perspectives and backgrounds among its administrators, faculty and staff. The instructor may earn unlimited status upon completion of six successful probationary semesters.

Minimum Requirements:

Education Requirement

- Bachelor's Degree industrial technology, prototype engineering technology, industrial design, or related engineering/technology field;

Occupational Experience Requirement –

- Four full-time years (or equivalent) of verified paid work experience in the industrial model making industry. Related experience in areas such as CNC (computer numerical control) machining, 3D software (Solidworks, Pro-E, etc.), traditional machining (lathes, milling machine), finishing workshops (new paints, etc.), rapid prototyping (3 dimensional printing).

Recency Requirement

- One year of work experience shall be within the five years immediately preceding the date of application for the credential field. The recency requirement shall be waived if the individual has two years of successful full-time (or equivalent) postsecondary teaching experience in the credential field within the last five years.

Preferred Qualifications:

- Experience working on an academic advisory committee, adjunct teaching, or other academic/mentorship role;
- Passionate about bicycling mechanics, construction, and testing.
- Multidisciplinary work experience in the production, construction, or development of metal or composite products (including subtractive or additive manufacturing experience).
- Strong hands-on experience troubleshooting mechanical systems.
- Appreciation for the art and the science of bicycle systems.
- Willing to learn more about modern concepts in fabrication, machining, composites, and the bicycling world.
- Excellent interpersonal and team building skills;
- Evidence of experience working with persons/groups of diverse cultures and backgrounds;
- Knowledge of multi-cultural, gender- and disability-fair curriculum development;
- Knowledgeable and experienced in the use of Microsoft Office (Word, Excel, Outlook, PowerPoint);
- Occupational Experience Requirement

Teaching and Learning Competency Requirement

Must meet the Teaching and Learning Competency Requirement prior to the end of probation.

- course construction (credit course)*
- teaching/instructional methods (credit course)*
- student outcomes assessment/evaluation (credit course)*
- philosophy of community and technical college education (credit or non-credit course)**

Faculty shall have a degree in education or three years of successful full-time (or equivalent) teaching experience prior to being hired, or shall be required to complete coursework in the above content areas (or their equivalent) prior to being granted unlimited status.

* These courses shall be waived for individuals who at the time of hire have: a degree in education, or have documented evidence of successful completion of equivalent coursework in the specified teaching and learning content areas, or have three years of successful, full-time (or equivalent) secondary, postsecondary, industry, or trade apprenticeship teaching experience in the field for which they are being hired. (Procedure 3.32.1 College Faculty Credentialing, Part 5, Subpart B.2)

** This course shall be waived for individuals who, at the time of hire, have documented evidence of successful completion of equivalent coursework. (Procedure 3.32.1 College Faculty Credentialing, Part 5, Subpart B.3)

A complete online application will include the following:

- Cover letter addressing the applicant's experience and the preferred qualifications listed in this announcement;
- Resume/Curriculum Vitae
- Unofficial Transcript(s) of your highest completed degree(s);
- Three (3) professional references;
- Statement of teaching (2-page maximum).

Salary and benefits will be based on the collective bargaining agreement between Minnesota State College Faculty (MSCF) and the State of Minnesota. Salary will be commensurate with education and experience. Base salary range, not including possibility of overload or other stipends, is \$35,984-\$79,218. Salary and benefits will be provided according to the negotiated labor agreement. Applicants selected for interview will be requested to provide a statement of their philosophy of equity and inclusion.

MSC Southeast is an Affirmative Action, Equal Opportunity Employer