

# MAINE MARITIME ACADEMY

A College of Engineering, Management, Science, and Transportation

## **Open Rank Faculty Position in Engineering – Electrical Focus**

### **POSITION OVERVIEW**

This document describes duties that the Academy expects of faculty members. These may change with each academic year, through discussions between you and your department head/dean/vice president. You will be reviewed and evaluated on the basis of how well you perform these duties.

This position will directly support the electrical curriculum for the Marine Engineering Operations (MEO) and/or Marine Engineering Technology (MET) programs. The responsibilities for this position will include some or all of the following: teaching, student advising, professional development, scholarship, service, and administrative responsibilities. Teaching is the fundamental responsibility of each faculty member; all faculty members are expected to participate in this activity. In addition, a high degree of “volunteerism/participation” is expected to facilitate the administrative support of the Academy along with effectively imparting your unique capabilities and expertise.

**The incumbent will teach general undergraduate engineering courses at the discretion of the department chair, typically including courses with a focus on engineering principles and the associated technologies used in the fields of marine and/or shore side power engineering.**

### **TEACHING**

Teaching responsibilities include time spent in the classroom, laboratory, or training ship(s) and in immediate preparation for these; maintaining and improving competence in subjects being taught; preparing contemporary teaching materials; conferring with students on course materials; directing individual and group studies and practica; reviewing written examinations and papers; evaluating presentations; supervising independent study projects, and supervising or teaching clinical cooperatives or industry programs.

### **ADVISING**

Student advising includes time spent meeting with students regarding academic, curricular and career matters.

### **SERVICE**

Academy service includes, but is not limited to, service on the Faculty Senate, Academy and departmental committees. Professional service implies the use of academic and professional expertise to serve your profession, the community, the state, the nation, or the world.

### **SCHOLARSHIP**

Professors must evidence their documented and continued professional development. Scholarship enables individuals to remain current in the theory, practice, knowledge, skills and/or pedagogy of their disciplines. For some, scholarship and continued professional development may mean hands-on development and training in industry. The scholarly expectations of Faculty should be consistent with the mission and purposes of Maine Maritime Academy.

## **OTHER ASPECTS OF FACULTY PERFORMANCE**

Collegiality, as well as professional and ethical conduct, enhances teaching, learning and the general reputation of all persons in the academy. Therefore, all faculty members are expected to serve in a collegial fashion and in accordance with professional and ethical principles when dealing with other faculty members, students, administrators, and members of the public.

### **DUTIES**

- Teach at the undergraduate level in areas allocated by the Department Head or Dean. Contribute to the development, planning and implementation of a high quality curriculum. Assist in the development of learning materials, preparing lesson plans and maintaining records to monitor student progress, achievement and attendance.
- Participate in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department.
- Participate in the development, administration and marking of exams and other assessments of students within and external to your department.
- Inform students of their progress by promptly returning assignments, quizzes, papers and exams.
- Contribute to departmental, faculty, or Academy-wide working groups or committees as requested.
- Maintain one's own continuing professional development.
- Maintain currency of TWIC/USCG/STCW/Stationary/Professional Licenses and certifications.
- Perform leading role in the support of the Academy's training curriculum, including service as an instructional faculty member and/or engineering watch officer onboard the *Training Ship State of Maine*.
- Expected to advise students in the engineering undergraduate programs, and assist in department academic and administrative functions including serving on departmental and campus-wide committees.

All academic staff are expected to demonstrate their ongoing commitment to academic excellence; that is, to the conduct of possible research, publication, teaching and other forms of knowledge transfer, at the highest levels of achievement.

### **ESSENTIAL SKILLS**

- Teaching and other forms of public presentation.
- Ability to supervise academic work by undergraduate students.
- Ability to manage time and work to strict deadlines.
- Ability to work collaboratively.
- Excellent interpersonal, organizational and communication skills.
- Ability to maintain composure in stressful situations.
- High degree of professionalism.
- Integrity and the ability to maintain confidentiality.
- Ability to adapt to changing priorities and conditions.

## **REQUIRED QUALIFICATIONS**

- Bachelor's degree in electrical engineering, electrical engineering technology, or a closely related field
- At least one of the following:
  - Hold current U.S. Coast Guard 3<sup>rd</sup> Assistant Engineer (Unlimited) license or higher with appropriate STCW endorsements
  - Possess equivalent military experience and the ability to obtain a U.S. Coast Guard 3<sup>rd</sup> Assistant Engineer (Unlimited) license with appropriate STCW endorsements
  - Hold current Third-Class Stationary Steam Engineer's License or higher and have previously held at least a U.S. Coast Guard 3<sup>rd</sup> Assistant Engineer (Unlimited) license with appropriate STCW endorsements
- Professional or research experience in the electrical, electronics, or power industry or a closely related field
- Excellent communication and leadership skills

## **PREFERRED QUALIFICATIONS**

- Advanced degree(s) in electrical engineering or electronic engineering
- Professional or research experience in the electrical power industry
- Experience in the marine industry, naval nuclear power, or plant engineering fields
- Experience with high voltage operation and training
- U.S. Coast Guard Chief Engineer (Unlimited) license with appropriate STCW endorsements
- Current First-Class Stationary Steam Engineer's License
- Professional Engineer (PE) license or demonstrated progress towards licensure
- Academic instructional experience

## **SPECIAL CONDITIONS**

- Tobacco-free campus
- Background check required
- Random Drug Testing
- Must present official copies of transcripts and any professional documentation (e.g., licenses, certifications and/or endorsements)

## **PHYSICAL/ENVIRONMENTAL FACTORS**

- Typical classroom and office environment are in multi-story buildings with elevator access.
- Work in the labs may require: Climbing up and down ladders and gangways, lifting and carrying materials, occasional work in excess heat, cold, dampness or dry atmospheric conditions.
- Those required to participate on the training cruise must be capable of the following:
  - Living and working in cramped spaces on a rolling vessel and maintaining balance on a moving deck.
  - Rapidly donning an exposure suit and other lifesaving gear.
  - Opening and closing watertight doors.
  - Occasionally lift and move up to 50 pounds.
  - Climbing steep stairs or vertical ladders without assistance.