

Job Description

Job Title: Maritime Engineering and Environmental
Studies Academy Teacher

Supervisor: Program Administrator

Position Code: TBD

Pay Grade: 35A, 37A, 38A, 39A

Job Classification: Exempt

Contract Length: 192 Days

Job Summary

The Maritime Engineering & Environmental Science Academy (MEESA) Teacher is responsible for creating a dynamic, interdisciplinary classroom environment where students engage in maritime engineering, environmental science, and global logistics through real-world, hands-on learning experiences. The position integrates CTE and science-based instruction, leveraging project-based learning, industry partnerships, and emerging technologies to prepare students for careers in blue and green industries.

Essential Duties

1. Facilitates instructional delivery and curriculum integration through teaching skills, knowledge, and industry-relevant problem-solving techniques in engineering, environmental science, sustainability, and global logistics through hands-on and inquiry-based methods.
2. Develops lesson plans and instructional materials aligned with Virginia CTE and Science Standards of Learning (SOLs) and MEESA's competency-based curriculum.
3. Utilizes industry-relevant technology, software, and tools (AI, IoT, modeling & simulation, renewable energy applications, automation) to support student learning.
4. Encourages cross-disciplinary exploration, incorporating elements of maritime engineering, environmental science, and supply chain logistics into the curriculum.
5. Using Student-Centered Learning & Real-World Applications Designs and facilitates immersive, project-based learning experiences that simulate real-world challenges in maritime, environmental, and logistics sectors.
6. Engages students in industry partnerships, field experiences, internships, and problem-solving collaborations with professionals in maritime and environmental fields.
7. Uses flexible learning spaces and innovative instructional strategies to foster student creativity, critical thinking, and adaptability.
8. Develops student leadership and career readiness skills, guiding students toward certifications, dual enrollment, and career pathways in STEM, sustainability, and logistics.
9. Ensures proper assessment and student growth by implementing competency-based assessments that focus on student mastery and skill progression rather than traditional grading.
10. Evaluates students' academic and professional skill development, maintaining accurate records and progress reports.
11. Provides differentiated instruction and individualized support to meet diverse student needs.
12. Maintains safety, compliance and professional expectations by Instructing students in the safe use of equipment, technology, and industry tools, ensuring adherence to safety protocols.
13. Maintains and manages materials, equipment, and lab spaces in a manner that supports innovation while ensuring safety.
14. Engages in continuous professional development to stay current with industry trends, certifications, and best practices.
15. Establishes and maintains high standards of student behavior for a productive and inclusive learning environment.
16. Through collaboration and school community engagement, works closely with MEESA leadership, industry professionals, and university partners to enhance curriculum development and student opportunities.
17. Communicates regularly with students, parents, counselors, and community stakeholders to support student growth and engagement.
18. Participates in faculty committees, industry advisory boards, and student activities, contributing to the continuous evolution of the MEESA program.

(These are intended as illustrations of the various types of work performed. The omission of specific duties does not exclude them if the work is similar, related, or a logical assignment to the position.)

Other Duties

1. Maintains professional competence through ongoing training, curriculum development, and industry engagement.
2. Supports student participation in internships, field experiences, and professional networking opportunities.
3. Develops interactive and engaging classroom spaces that reflect MEESA’s interdisciplinary mission.
4. Performs other duties as assigned by the Principal or MEESA Leadership Team.

Job Specifications

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill and/or ability required. Reasonable accommodation may be made to enable individuals with disabilities, who are otherwise qualified, to perform the essential functions.

Minimum Qualifications (Knowledge, Skills, and/or Abilities Required)

Must possess a Bachelor’s or Master’s degree in STEM Education, Environmental Science, Engineering, Global Logistics, Technology Education, or a related field. Must hold or be eligible for a Virginia CTE Teaching License (Technology Education, or Engineering endorsement preferred). Strong understanding of STEM education, sustainability, and industry-aligned competencies. Experience or familiarity with emerging technologies (AI, automation, IoT, renewable energy, logistics software). Ability to design and implement problem-based and experiential learning experiences. Proficiency in industry-relevant software and tools for engineering, environmental science, and logistics. Ability to collaborate with industry and community partners to enhance student learning. Adaptability and willingness to innovate in a flexible, evolving educational setting. Strong communication and interpersonal skills to engage with diverse students, families, and industry stakeholders. Passion for mentoring students toward career readiness in blue and green industries.

Working Conditions and Physical Requirements

Must be able to sit and stand for extended periods, operate a computer, and interact with students in lab, classroom, and field settings. Must have physical agility to handle equipment, lab materials, and environmental fieldwork. Will require field trips, industry site visits, and outdoor activities as part of the learning experience

Supervision:

Supervision Received: Administrator and MEESA Leadership Team.

Supervision Exercised: May include instructional assistants, volunteers, and interns.

This job description in no way states or implies that these are the only duties to be performed by this employee. The MEESA Teacher will be required to follow any other instructions and perform any other related duties as assigned by the Principal or MEESA Leadership Team.

Newport News Public Schools reserves the right to update, revise, or change this job description at any time.

Approvals:

Supervisor:

Date

Employee Acknowledgment:

I acknowledge that I have received and read this job description.

Employee Name (Print):

Signature

Date