



MONTCLAIR KIMBERLEY ACADEMY

STEM+ Explorers Summer Teacher: Engineering

Position Type: Part-Time, 1–4 week position

Program Dates: July 6 – July 31, 2026

Orientation: June 18, 2026 (9 AM – 3 PM)

Location: Inquiry & Innovation Center, MKA Upper School Campus, Montclair, NJ

Position Summary

Montclair Kimberley Academy (MKA), an innovative PK – 12 independent day school with a strong national reputation, seeks innovative and enthusiastic teachers to design and deliver engaging summer programming for middle school students. The STEM+ Explorers Summer Program offers an inspirational enrichment experience — not summer school or academic acceleration — where students deepen curiosity and creativity through hands-on learning.

This role focuses on teaching the Engineering strand, guiding students through real-world engineering challenges across Environmental, Civil, Electrical, and Mechanical disciplines. Each week, students will act as engineers, designing solutions to authentic problems while exploring fundamental principles of each engineering field.

Strand Overview: Engineering

- Week 1: Environmental Engineering — Explore water movement, diversion, and distribution. Investigate flooding impacts on soil, groundwater, and human-made structures, and identify mitigation strategies.
- Week 2: Civil Engineering — Focus on securing clean drinking water. Students filter rainwater and natural sources, reclaim used water, and explore methods to make water potable.
- Week 3: Electrical Engineering — Learn fundamentals of electricity through switches, motors, lights, and other electrical components. Students invent devices and solve problems related to low-temperature environments.



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- Week 4: Mechanical Engineering — Study machines and mechanical advantage. Students explore how engineers use materials and machines to make work easier and create efficient solutions.
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Responsibilities

- Design the Engineering curriculum in collaboration with STEM+ Directors during the school year.
 - Create and submit a supply list (within budget) to the Director of Summer Operations by May 1, 2026.
 - Attend pre-program orientation on June 18, 2026.
 - Teach the summer schedule:
 - *Engineering Classes* (2 sections): 9:00–10:35 AM
 - *Morning Lab*: 11:40–12:25 PM
 - *Afternoon Challenge Lab*: 1:30–3:30 PM
 - Provide engaging communications to families about daily activities and student progress.
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Requirements

- Availability for full program dates (July 6 – July 31, 2026), including June 18 orientation.
 - Participation in planning meetings with STEM+ Directors during the school year.
 - Ability to design and deliver hands-on engineering activities for middle school students.
 - Strong organizational skills to manage tools, supplies, and lab safety.
 - Excellent written and verbal communication skills.
 - Collaborative mindset and flexibility in a dynamic summer program setting.
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Qualifications

Required

- Bachelor's degree in Engineering, Science, Education, or related field.



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- Prior teaching experience with middle school students (classroom, enrichment, or summer program).
- Experience with hands-on engineering projects or maker activities.

Preferred

- Advanced degree in STEM, Engineering, or Education.
 - Experience designing curriculum or project-based learning experiences.
 - Familiarity with electrical, mechanical, or environmental engineering tools and equipment.
 - CPR/First Aid certification.
 - Enthusiasm for enrichment-focused teaching that emphasizes creativity, problem-solving, and innovation.
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Application Process

Interested candidates should submit their application via email.

Applications should include the following:

- cover letter that addresses what interests you about working at Montclair Kimberley Academy
- current curriculum vitae
- brief statement describing your teaching philosophy
- three letters of recommendation, at least one of which discusses qualities that will support your role as a teacher

Applicants should send all requested materials by email to Monica Masterson, Director of Summer Operations: mmasterson@mka.org

It is MKA's policy to provide equal employment opportunity to all qualified persons regardless of age, race, creed, color, national origin, ancestry, sex, gender identity, sexual orientation, socio-economic background, or disability not related to the requirements for being a successful employee at MKA.