



Don Bosco Prep
492 Franklin Turnpike
Ramsey, NJ 07446

Engineering Teacher and Robotics Team Mentor

POSITION SUMMARY

Don Bosco Prep seeks an innovative full-time engineering teacher and robotics team mentor for the 2022-2023 academic year who will play a significant role in the schools' educational technology programming. The core responsibilities include teaching in our engineering (robotics) program, as well as collaborating with faculty to design and coordinate transdisciplinary activities to promote high-tech learning. The ideal candidate will have a strong background in mechanical engineering and computer aided design (CAD) and have a passion for making, design, and STEAM education as well as experience working in a student-centered, collaborative, and inquiry-based educational environment. Also ideal would be a background with FIRST robotics at both the FTC and FRC level, as well as the ability to teach and guide students in the safe use of shop machinery. The engineering teacher reports to the principal.

ESSENTIAL FUNCTIONS/RESPONSIBILITIES

- Teach engineering and robotics classes
- Instruct students in the safe use of shop machinery such as drill presses, saws, milling machines, and lathes.
- Coordinate robotics after-school sessions
- Attend robotic competitions during the school year including on weekends
- Assist with registration and travel logistics to regional, state, and national competitions
- Communicate with families about robotics program updates
- Collaborate with teachers to integrate projects with a focus on technology concepts and operations, programming and physical computing, and engineering design
- Work collaboratively with the educational technology team to define benchmarks for technology curriculum and integration

QUALIFICATIONS REQUIRED

- Bachelor's degree in science, mathematics, engineering, or closely related field
- Knowledge of the safe operation and use of common shop machinery
- Experience coaching or teaching
- Working knowledge of high-school level robotics (FRC, FTC, etc.)
- Availability to work after-school and weekend hours

QUALIFICATIONS DESIRED

- Three years of experience with FIRST robotics, preferably at the FRC level, with at least one year as a mentor
- CNC machine experience
- Familiarity with high-school level robotics programming and electrical connections
- High attention to detail
- Excellent time-management skills
- Inquiry-based pedagogy
- Fluency in multiple student-centered instructional approaches
- Proven dedication to professional growth and purpose-driven practice

Benefits include very competitive salary, health benefits, retirement plan with matching, and more.

Please send resume and cover letter to employment@donboscoprep.org.