



Makerspace/Engineering, Faculty

West Catholic Preparatory High School
4501 Chestnut St.
Philadelphia, PA 19139

Overview of High School

Founded in 1916, West Catholic Preparatory High School has enjoyed a rich history of preparing young people to be competitive in the college setting and the career world. The challenging academic curriculum, competitive athletics program and engaging activities complement each other to foster courage, character and leadership.

West Catholic Preparatory High School Mission Statement

West Catholic Preparatory High School is a Catholic community of academic excellence in an urban environment that is open to an interdenominational population. The school's rigorous spiritual, academic, technological, and co-curricular programs develop our ethnically and religiously diverse student body into young men and women of strong moral and ethical character. West Catholic prepares each student to face the challenges of everyday life in an ever- changing global society.

West Catholic Preparatory High School Belief Statement

At West Catholic Preparatory Catholic High, we believe our education...

- Inspires a life-long commitment to service, especially to those in need
- Is grounded in the Catholic message of gospel values;
- Is a ministry that participates in God's saving work;
- Develops each person's full potential-spiritually, intellectually, socially and physical;
- Inspires a life-long commitment to service, especially to those in need;
- Promotes learning in a collaborative effort between home and school;
- Fosters mutual respect among students, teachers, administrators, and all members of the school community;
- Should be made available to all students regardless of ethnicity, religious affiliation or socio-economic status;
- Encourages respect for and an understanding of our multicultural family.

Responsibilities for Engineering Teacher:

- Teach content and skills in engineering courses, utilizing and adapting curriculum



- Further develop the engineering curriculum through the addition of relevant content, projects and challenges.
- Understanding that engineering/fabrication is applied problem solving and that project based learning is the best vehicle for this approach.
- Continue to grow and lead the engineering program to ensure it evolves and stays current.
- Collaborate with other teachers to create course plans and materials.
- Develop in each student an understanding of engineering concepts - conceptually and procedurally.
- Adapt materials and methods to develop assignments and lesson plans that guide and challenge students and help them to apply what they learn.
- Monitor students' development using data.
- Be open and receptive to feedback.

Qualifications:

- Laser cutters, 3D printers, and CNC machines
- Design software to interface with the above tools
- Wood shop tools like chop saws, drills, table saws, screw guns, etc...
- Ability to build positive relationships with students and staff
- High expectations for all students
- Strategic thinker who can execute on multiple priorities

Education and Experience:

- 2+ years of makerspace or engineering experience
- Preferred bachelor's degree in relevant field of study or equivalent experience.

The Archdiocese offers a competitive salary and benefits package commensurate with experience and education.

**Candidates interested in this teaching position should send their resume, to
Mr. Mike Field, Assistant Principal of West Catholic Preparatory High
School at mfield@westcatholic.org**