

## **ACADEMIC TECHNOLOGY AND ENGINEERING TEACHER AND PROGRAM HEAD**

### **JOB SUMMARY**

Mid-Pacific seeks an innovative, inspirational, and creative educator to lead a growing program within the High School encompassing the areas of engineering, fabrication technologies, industrial design, and robotics/sensor technology. This teacher and thought leader will partner with the science department, visual and digital art programs, and the Mid-Pacific eXploratory program (MPX) in emerging curricular areas of industrial arts, design thinking and prototyping, data visualization, and reality computing and immersive technology. Specific duties include teaching IB Design Technology at the standard and higher levels (<http://www.ibo.org/programmes/diploma-programme/curriculum/sciences/design-technology/>), multiple levels of robotics, and other technology related courses as needed. This teacher will also coach after school competitive robotics.

**ESSENTIAL DUTIES AND RESPONSIBILITIES** include the following. Other duties may be assigned.

#### Teaching:

- Instruct students using a wide range of student-centered strategies, which engage students in the learning process.
- Incorporate educational technology into lesson design to enhance student learning.
- Differentiate instruction to meet student needs.
- Teach core concepts and skills as set out in the departmental scope and sequence and always directed to the vision and mission of the school.
- Prepare lesson plans following curriculum guidelines set by the department and the school.
- Set assignments and post homework assignments weekly on the internet using the school's information system program.
- Prepare and administer formative and summative assessments of students' learning; record results electronically and post student grades electronically on a weekly basis.
- Maintain effective classroom management, liaising with deans and parents as necessary.

#### Leadership (as appropriate to candidate's experience):

- Collaborate with teachers, administrators, and community partners in the further development of Academic Technology and Engineering curriculum and support resources
- Be a principal contributor to the vision for Academic Technology and Engineering program development
- Contribute to the adoption and realization of the Mid-Pacific Technology Vision Statement (attached)

- Participate in/lead faculty and departmental meetings and professional learning sessions
- Attend Curriculum Committee and Department Chairs meetings
- Attend professional development workshops and educational conferences
- Determine budget needs and purchase equipment and materials for courses taught and give input to the overall budget for the program
- Manage equipment, materials and designated space(s) for engineering, robotics and fabrication work

### **QUALIFICATIONS AND EXPERIENCE**

Minimum requirement: Bachelor's degree in Engineering or related field from an accredited university or college. Teaching experience at the secondary level in design, industrial arts, engineering and/or technology preferred. Demonstrated experience creating collaborative, positive team atmosphere highly valued. Familiarity or direct experience with the IB Design Technology curriculum a plus. Familiarity or direct experience with "Maker Space" programs a plus. Relevant industry experience will be considered.

### **PHYSICAL DEMANDS**

Our campus consists of multiple buildings on 44 hilly acres that requires frequent walking including uphill and stairs. The employee on a daily basis is required to frequently, unless otherwise noted walk to and from classrooms or buildings within five minutes, lift and carry approximately 10-15 pounds (student journals, papers, books, etc.); arrange student desks, furniture in classroom as needed; stand and sit throughout the day for instruction and supervision of students; walk: class to chapel (once a week), walk around the classroom, from classroom to: copier room (frequently), library (occasionally), fields for fire drills (occasionally), to supervise students (daily); occasional bending; frequent reaching when writing on board, while at desk, for phone, to receive student work (this occurs throughout the day). Some climbing of stairs (daily); walking up a slight hill (daily).

### **MENTAL DEMANDS**

On a daily basis employee must frequently problem solve, make decisions, supervise students/classroom management, interpret data, grade, organize, write, plan, and clearly communicate.

### **EQUIPMENT USE**

Telephone – occasionally, Copier – occasionally, Computer – frequently, Projector – frequently

### **WORKING CONDITIONS**

Indoor – frequently, Outdoor – occasionally, Loud Noise – occasionally, Cold Temperatures – occasionally, Hot Temperatures – occasionally

**WORK ENVIRONMENT**

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.