

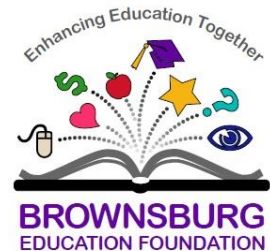
# Run of the Mill Request

## at Brownsburg High School – Team 3176 Robotics

*Sponsored in part by*



**Students impacted: 45+ | Subject: STEM**



This grant purchased a mill to be used by the BHS Robotics Team 3176 as well as by the Project Lead the Way students who utilize the PLTW lab space during class. A mill shaves away wood, metal, composites and other materials with ease. This machine offers the team the ability to create complex shapes and to cut a variety of materials that they cannot currently do. By creating their own parts, they save a lot of stress and money spent finding a sponsor or business to create parts for them. With their own mill, they have endless creating capabilities during the prototyping phase of robot building. This allows the team to quickly manufacture an item directly from CAD software thus saving them build time that would otherwise be spent waiting for parts to be waterjet cut or shipped after purchase. BHS Robotics will also be able to train students to create certain parts that are always necessary for a functioning robot. Their goal for the first year of mill use is to manufacture 10-20% of the robots' parts. As for future school impact, BHS Robotics could quickly manufacture parts for other clubs at a fraction of the cost. In the past, they have helped create stage pieces for the BHS plays. They can easily continue to do that and possibly expand to help the theatre department further with the capabilities of the mill.

