

**PTO Enhancement Grant Request: 2020-2021
ES MakerSpace 3D Laser Cutter Supplies**

Applicant / Project Leader: Cary Hart (Faculty/Staff)

Description

We have the 3D laser cutter that was purchased for the school by the PTO three years ago. In order to make sure that it lasts as long as possible, it is important to purchase the right materials. Our laser cutter was created for professional use and therefore needs professional-grade materials. This will also mean that students are able to produce projects that use real-life materials. This will also ensure that our laser cutter and filters last longer and run more efficiently. The PTO grant will be used to purchase wood, paper, acrylic, and other materials.

Target Community

The ES students are the main benefactors though the ES teachers will also benefit. Having a 3D laser cutter in the ES will allow students to begin to build skills that they can carry with them into MS and HS.

As our Curriculum is demanding a space for creating and designing this piece of equipment will be available to all in the ES when necessary to help them reach curricular goals.

Choices

These materials will be purchased from brands that are certified for use in Russian educational institutions.

How will your project positively impact the AAS community?

The 3D Laser Cutter transforms existing pieces into works that can either act as prototypes or actual workable solutions. The final products can transform the hallways and display areas onto 3Dimensional showcases for student agency, while also inspiring students to pursue a career in one of the STEM fields.

Projected Total Cost

\$1500

Where will your grant proposal item be purchased? Locally

Proposed start date

As soon as the equipment arrives and training and safety policies have been set up for the teachers and student use.

Estimated set up or lead time

1 month after arrival

Success Criteria

Students who have successfully been able to use the equipment to develop the prototype they imagined.

Your "Elevator Pitch"

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