

IMPACT STATEMENT

Legislation title: *Authorize a Special Appropriation grant agreement with Airway Science for Kids (ASK), in an amount not to exceed \$39,500, for their "Flaps" Berry drone program. (Ordinance)

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Presenter name: N/A

Purpose of proposed legislation and background information:

Airway Science for Kids (ASK) is a non-profit corporation that has been engaging low-income youth in unique opportunities to learn about science, technology, engineering and math (STEM) through the exciting world of flight since 1992.

According to the Oregon Employment Department, demand for STEM occupations is increasing rapidly. However, many students of color in Portland are falling behind in STEM subjects, and may be unable to compete for these jobs. Among all eighth graders in the Portland Public School District (PPS) in 2013-2014, 66% met/exceeded standards for mathematics and 67% for science. However, among African American students those rates were just 37% and 30% respectively. Latinos fared only slightly better (46% for math; 43% for science). Research shows that employees in STEM jobs have lower rates of unemployment and higher average salaries than non-STEM workers. (U.S. Department of Commerce, Economics and Statistics Administration, 2011). ASK seeks to create more equitable access to STEM jobs by providing education and inspiration to children and youth of color.

Launched in 2009 in Hillsboro, Teen Flight has been well received by youth, parents, partners, volunteers, and funders. Teen Flight classes are centered on hands-on project-based instruction, high expectations, and rigor, as youth work together to build drones. Curricula are intentionally focused on fostering a love of learning and creating pathways to career and post-secondary education.

ASK's teen flight program will target youth from underserved communities and students of color with an emphasis on reaching girls; populations who are underrepresented in STEM occupations. The project would support a new NE Teen Flight program that will target 15 high school students of color who attend schools in N/NE Portland with high rates of poverty.

In fall of 2015, ASK began a preliminary NE Teen Flight project with a group of students who are developing advanced skills and STEM/aerospace concepts and applying them to designing and building a drone aircraft.

Financial and budgetary impacts:

Funding for this grant is available in the FY2017-18 budget in the General Fund Special Appropriation.

Community impacts and community involvement:

All ASK programs focus on providing culturally appropriate instruction for our youth of color.

Applications and information are provided in Spanish and English. Moreover, curricula are intentionally designed to be culturally targeted. For example, including a history lesson on the city of Vanport and focus on African Americans' influence on Portland's STEM industry; spotlighting women, Latino, and African American pilots.

ASK recognizes that schools -- and higher education institutions -- are often not considered welcoming places by students and families of color. They work to break down this barrier by making students and their parents feel comfortable on school and college campuses, interacting with college students, and encouraging students to focus on school and post-secondary/career aspirations.

100% Renewable Goal:

This action does not increase or decrease the City's total energy use nor does it increase or decrease the City's renewable energy use.

Budgetary Impact Worksheet

Does this action change appropriations?

- YES:** Please complete the information below.
- NO:** Skip this section

Fund	Fund Center	Commitment Item	Functional Area	Funded Program	Grant	Sponsored Program	Amount