



STEAM ONWARD programs also include: **Ujamaa Cooperative Farming Alliance (UCFA)** a collective of emergent and seasoned BIPOC growers of culturally meaningful heirloom seeds, and **Ujamaa Seeds**. Learn more at: ujamaafarms.com and ujamaaseeds.com.



UJAMAA SEEDS
Maryland's
Culturally Meaningful
Heirloom Seed Company

ujamaaseeds.com

Gardening with heirloom seeds not only preserves heritage varieties of flowers, vegetables, and fruits, but using heirloom seeds contributes to biodiversity and a more resilient and sustainable food system.



STEAM ONWARD

Youth exploring STEM concepts through hands-on activities in agriculture, natural resources, health, and the environment.



LEARN MORE, VOLUNTEER, DONATE

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STEAM ONWARD

The mission of Steam Onward is to increase the number of minority and under-served youth pursuing higher education in STEM related fields such as science, technology, engineering, and mathematics. We provide youth with opportunities to explore STEM concepts via hands-on activities in agriculture, natural resources, health, and the environment.



STREAM MONITORING

Youth engage in hands-on environmental learning by recording data on local streams learning how human activity and pollution affect natives species, and affect the health of local communities. Youth also explore environmental awareness and justice issues.



COMMUNITY GARDENS

Through activities in community gardens youth explore biology, agriculture, biodiversity, nutrition, plant adaptation, as well as teamwork, community engagement, and citizenship.



AGRO-FORESTRY

Through our *Wangari Maathai Food Forestry Program*, youth plant native trees and shrubs as they explore concepts of sustainable agriculture, biodiversity, water management, as well as how native trees and shrubs support local wildlife, improve soil health, and reduce the need for fertilizers and pesticides.

MORE THAN FARMING

A series of short videos on diversity in agriculture & natural resources.

ARBORIST IRRIGATION SPECIALIST BOTANIST SOIL SCIENTIST LANDSCAPE ARCHITECT
MINING ENGINEER VETERINARIAN COMMERCIAL FISHER FOOD SCIENTIST
ENVIRONMENTAL ENGINEER FORESTER PARK NATURALIST ZOOLOGIST DATA SCIENTIST
GENETIC RESEARCHER AQUAPONICS ENGINEER FOOD PRODUCT DEVELOPER
ENVIRONMENTAL LAWYER FOOD PRODUCT MARKETING & SALES AGRONOMIST & MORE....



The **MORE THAN FARMING** video series will feature:

- the **diversity of careers** in agriculture and natural resources,
- the **diversity of technology** utilized in agriculture and natural resources, and
- the **diversity of people** engaged in agriculture and natural resources.



YOUTH ANTI-VAPING

To counter the rapid increase of youth use of vaping devices, Steam Onward conducts outreach and education in schools, and at community sites and events on the adverse health effects of nicotine use.



Through in-person lessons and presentations on the health effects of nicotine use, youth learn how to create anti-nicotine counter marketing posters, videos, and memes. Through this project youth engage in creative thinking, as they learn about health, marketing, advocacy, and community engagement.