



# UMES EXTENSION



## 4-H STEM 2021 ANNUAL REPORT

### 2021 HIGHLIGHTS

191

*Virtual Program Participants*

470

*Summer Camp Program Participants*

1347

*School Enrichment Program Participants*

120

*Afterschool Program Participants*

24

*UMES 4-H Club Participants*

85

*UMES 4-H STEM Festival Participants*

8

*Train the Trainer Participants*

= 2245

*Youth & Adult Program Participants*



### 4-H Youth Development

“The mission of 4-H is to provide meaningful opportunities for all youth and adults to work together to create sustainable community change. This is accomplished within three primary content areas—civic engagement and leadership, healthy living, and science.”  
-2017 National 4-H Strategic Plan

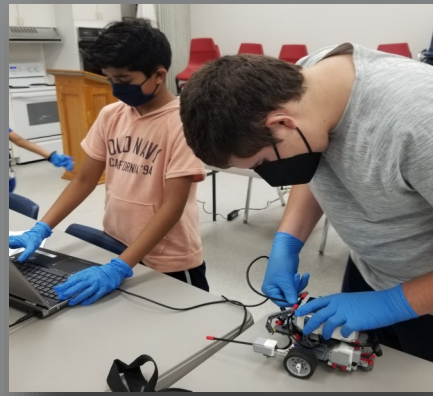
The 4-H Youth Development STEM program is delivered by the University of Maryland Eastern Shore Extension. It began as an effort to increase outreach to underserved youth through in-school, after-school, camp programs, and special events. These efforts focus on programs in the areas of STEM as a way to prepare youth to become part of a growing STEM workforce and enhance the ongoing efforts of partner organizations and universities.





# Community Partnerships

Adkins Historical Museum  
 Assateague State Park  
 Garland Hayward Youth Center  
 Horizons Delmarva  
 IntheArtroom  
 Maryland Business Roundtable's Next  
 Gen Scholars Program  
 Maryland Coastal Bays  
 Maryland Conservation Corps  
 Maryland STEM Festival  
 NASA Wallops Flight Facility  
 National Society of Black Engineers  
 Pocomoke State Park  
 Somerset County Schools  
 The Ward Museum  
 Wicomico County Parks & Rec  
 Wicomico County Schools Horticulture  
 CTE  
 Wicomico County Schools  
 Worcester County Schools  
 Young Elites West Coast to East Coast  
 Aviation Network



## Topics Taught

3-D Printing  
 Agricultural Science  
 Biomimicry  
 Bird Anatomy  
 Climate Science  
 Edible Entomology  
 Forensics/DNA  
 Gardening  
 GPS  
 Junior Master Gardener  
 Junk Drawer Robotics  
 Lego Robotics  
 Marine Biology  
 Marine Chemistry  
 Meaningful Watershed Educational  
 Experiences  
 Paleontology/Archeology  
 Renewable Energy  
 Rocketry  
 Rockets to the Rescue  
 Science of Art  
 Squid Dissection  
 Vermicomposting



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