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Makers @ HS/HSL: Emerging Technologies for Emerging Scholars

User:	6th-12th grade students from around Baltimore
Affiliation:	University of Maryland, Baltimore CURE Scholars Program , and Baltimore City Community College Refugee Youth Project
Project:	Design and print a personalized keychain
Used:	Tinkercad and Lulzbot Taz5



High school students designing 3D models in a library classroom.

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hands-on about 3D modeling and printing. Each session began with an interactive presentation explaining what 3D printing is and how it's being used in the medical world. The students then dove into Tinkercad.com, a free easy-to-use website for creating 3D models, and designed their own personalized keychains. For the finale the students got to explore the HS/HSL Innovation Space, inspect the 3D printed models on display, and start 3D printing the keychains they designed.

These middle and high school students are enrolled in academic programs organized by the University of Maryland, Baltimore, and Baltimore City Community College. The [UMB CURE Scholars Program](#) seeks to expose young students from West Baltimore to science, technology, engineering and math programs, and provide ongoing mentorship and career development resources through college. The [BCCC Refugee Youth Project](#) works to improve the lives of Baltimore's youngest refugees by supporting their academic needs and making their integration simple and meaningful.



Middle school students preparing to 3D print their models in the HS/HSL Innovation Space.

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1. [Five Ways Bioengineers Want to Use 3-D Printing](#) (sciencedaily.com)
2. [Dental Implant Customization Using Numerical Optimization Design and Three-Dimensional Printing Fabrication of Zirconia Ceramic](#) (nih.gov)
3. [A 3D Bioprinting System to Produce Human-Scale Tissue Constructs with Structural Integrity](#) (nature.com)

Did You Know?

Our full color poster printing service has officially launched! See [our website](#) for more details.



Upcoming HS/HSL Innovation Space Workshops

Introduction to 3D Printing

- September 7, 2016
- September 13, 2016
- September 23, 2016
- September 30, 2016

Introduction to 3D Modeling

- September 8, 2016
- September 26, 2016
- October 5, 2016
- October 28, 2016

[Register for our free workshops](#)

New to the HS/HSL Innovation Space?

The Innovation Space is designed for innovative and collaborative hands-on learning experiences. It offers three 3D printers, two 3D scanners, over 3,500 video tutorials from [Lynda.com](#) (available on-site only), a plotter for [poster printing](#), a large DNA model, two molecule kits, a button maker, and a 3D

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