

2017-2018

ANNUAL REPORT

Cleveland State University's
STEMM Education Center



By The Numbers

Over 5 STEM Advisory
Boards!



8 Services to STEM Organizations
Locally & Nationally!

Over 400 teachers involved in over 10
Schools and 2 Entire School Districts!

Over \$2 Million in Grants for
Research and Programming!



Cleveland State University's

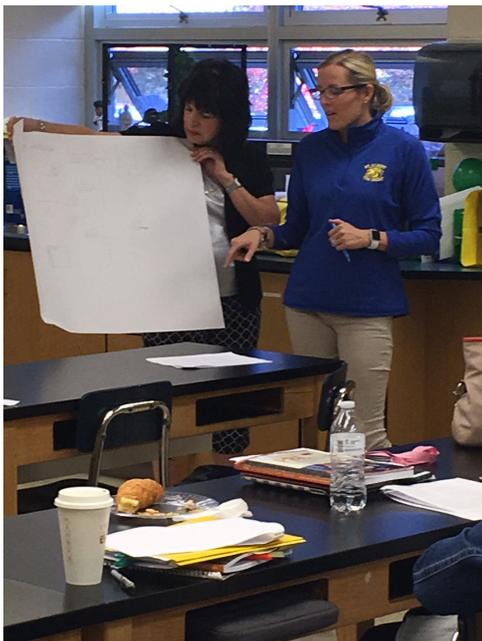
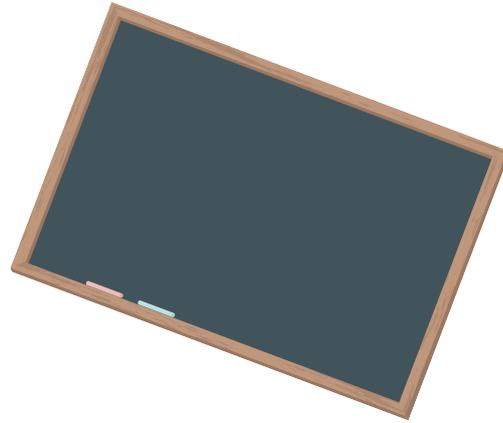
STEMM



Education Center

Professional Development in Schools

The STEMM Education Center provides Professional Development for Standard Project-Based Learning, and EiE.



Schools Include

Morewood Elementary School
Brady Middle School
Orange High School
Orchard STEMM School
Boulevard Elementary School Holy
Family in Parma
Mater Dei Family
Gees Catholic School
St. Hilary School
St. Albert the Great
St. Mary of the Immaculate
Conception
All Saints

Over 400 teachers involved with Professional Development!



PBL/SOLE/EiE Presentations

S.O.L.E. at the Cuyahoga County
Education Services Center

PBL at the Cuyahoga County
Education Services to the Northeast
Ohio Science Specialists

EiE Workshops

Service to School Districts on STEM Advisory Boards

Orange Learn to Lead Advisory Board

Friends of MC2STEM High School

Ranger High Tech Academy Advisory Board

Parma City School District STEM Education
Advisory Board



Service to School Local STEM Organizations

Northeast Ohio STEM Ecosystem

CSU Cybersecurity Center

Ohio STEM Learning Network Hub

Washkewitz College of Engineering
Fenn Academy Advisory Board

CSU Operation STEM Advisory Board

Cuyahoga Valley Environmental
Education Center

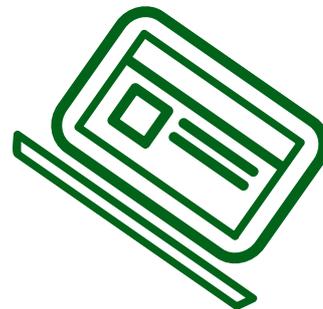
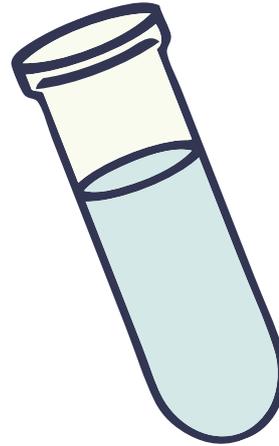
Service to National STEM Organizations

UTeach Institute

UTeach Computer Science Working
Group

CSforAll

CSforRPP



Current & Pending Grants

Jackson, D., Sridhar, N., & Harper, B. (2017-2020).

Understanding Equity and Access in a CSforALL Implementation. Funded by the National Science Foundation Computer Science Research Practice Partnership Program, \$999,981

Jackson, D., Banks, T., Hamlen, K. & Wachira, P. (submitted/pending).

CS in C2: Investigating Integration Models to Scale CS in Columbus and Cleveland Submitted to the NSF Computer Science Research Practice Partnership Program, \$999,501

Jackson, D. (2012-2018).

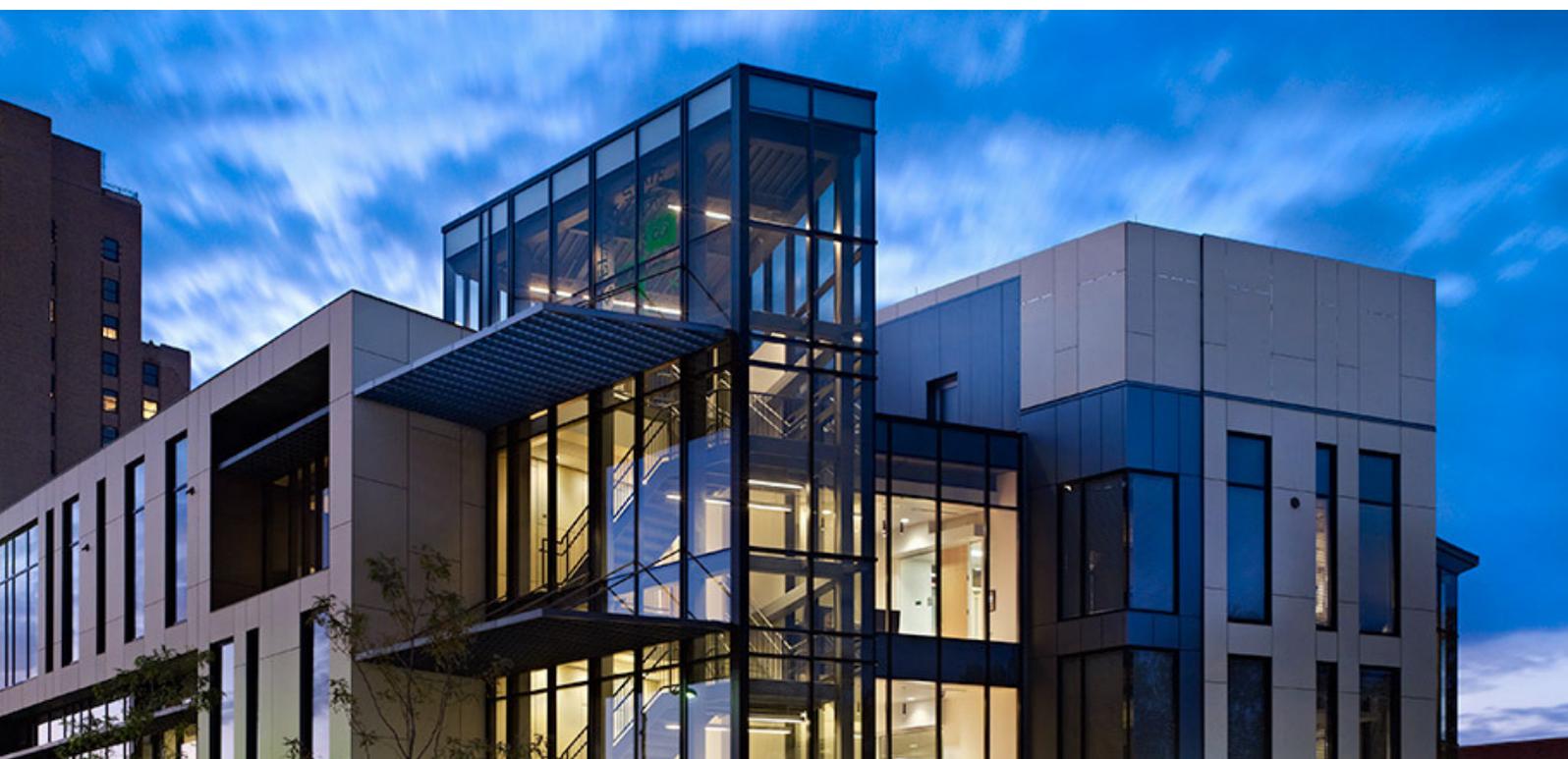
Cleveland Regional STEM and Embed Support. Funded through the Battle Foundation and the Great Lakes Science Center. \$150,000

Sridhar, N. & Jackson, D. (2016-2018).

Support: Computer Science for All. Funded by the Cleveland Foundation, \$300,000

Schemer, E. & Reinthal, A. (2017-2019).

REU: Engineering and Computing in Rehabilitation and Assistive Technology. Funded by NSF Research Experiences for Undergraduates, \$391,824



Past Activities

Hosted 5th Graders from CHUH for a
1/2 day Hot Air Balloon Project
Hosted OC3 and the National Guard for a
Capture the Flag Cyber Security Challenge
Panelist for the Israeli Delegation to the US
Speaker at the Catholic Archdiocesan
STREAM Coordinators Meeting
Speaker at the 2018 Tech Symposium for
Northeast Ohio Tech Day

Active Activities

STEM Education Conference
Project Based Learning at the
Cuyahoga Valley National Park
Project Based Learning 101

Cleveland State University's

STEMM



Education Center