

Clean Technologies & Sustainable Industries Early College High School



HVCC's TEC-SMART Malta, NY

Partnering Business, Government and Academia



Agenda

- Welcome
- Program Overview
 - Adrienne Snow, Program Coordinator
 - Christina Carlson, School Counselor
 - Jenna Singer, P-TECH English teacher
 - Juliana Foster, 12th Grade, Waterford Halfmoon High School
 - Gabriella Soto, 12th Grade, Ballston Spa High School
 - Bailey Grassmann, 12th Grade, Mechanicville High School
 - Krystian Slater, 12th Grade, Saratoga Springs High School
- Q & A



What is P-TECH?

- No cost to students & families
- Students have up to 2 years after senior year to complete the degree
- Covers cost of tuition, textbooks, parking, fees, etc.
- Students MUST stay in degree pathway
- Students are only allowed to retake 1 college course under the grant
- Years 5 & 6- monthly check ins, connection to services, assistance in transfer process
- First in line for job with business & industry partner



Transdisciplinary Learning for College & Career Readiness

Consulting with Experts
in Business and Industry

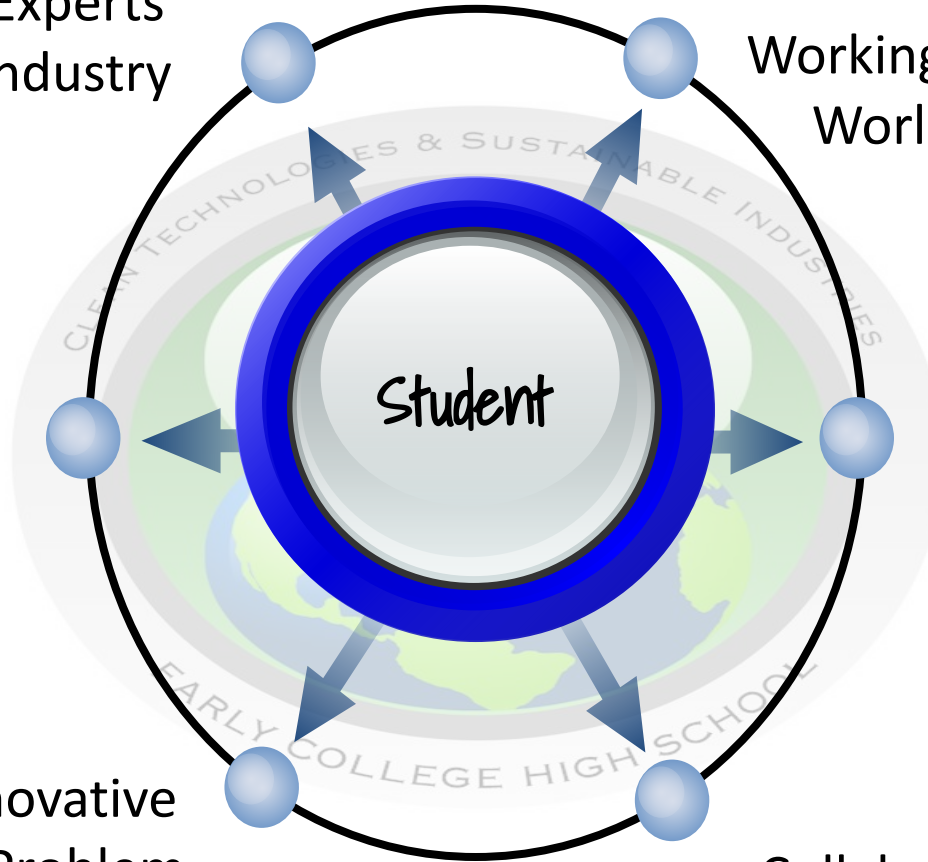
Working with Real
World Issues

Connecting with
Community
Stakeholders and
Leaders

Applying Knowledge
and Skills to
Understand Present
and Future
Challenges

Developing Innovative
Solutions and Problem
Solving

Collaborating and Leading
Team Research



Student Characteristics

- Motivated to learn in new and exciting ways
- Innovative and creative
- Interested in Science, Technology, Engineering, and Math
- What will the program help you with?
 - Build on Collaboration Skills
 - Build on Critical Thinking/ Problem Solving Skills
 - Build on Organizational Skills
 - Build on Time Management Skills





Clean Tech ECHS Overview

- College Readiness & Student Supports
- College Majors Leading to an Associate's Degree
 - Clean Energy
 - Cybersecurity
 - Community Health Navigation
 - Engineering Sciences
 - Entrepreneurship
 - Polysomnography
 - Surgical Technician
- Problem Based Learning – Real World Challenges
- Connections to Business & Industry – Mentoring & Field Experiences
 - Up to 34 college credits by the end of high school senior year



Training and Education Center for
Semiconductor Manufacturing
Government and Defense Technologies



Clean Energy



Cybersecurity



Entrepreneurship



Engineering Sciences



Health Related Fields (Community Health Navigation, Polysomnography, Surgical Technician)



Training and Education Center for
Semiconductor Manufacturing
and Alternative and Renewable Technology



COURSEWORK

9th Grade

- 1 Week Summer Bridge Program week of July 10th-13th (.5 HS Credit)
- Online High School Course with monthly visits to TEC-SMART half day only (1.0 HS Credit)

10th Grade

- 1 Week Summer Bridge Program week of July 10th (.5 HS Credit)
- Online High School Course with 1 visit to TEC-SMART each month (2.0 HS Credits)
- HVCC College Forum Online 1.0 credit (Fall of sophomore year)
- HVCC Sociology Course Online 3.0 credit (Spring of sophomore year)

11th Grade

- On Site Half Day Morning (7:50 AM- 10:50 AM)
- High School- 4 courses (English 11, Applied Math in Clean Tech, Environmental Science, Online Reading & Research Skills)
- 4 HVCC College Courses (2 Courses each semester)
- Summer Week Long Work Based Learning Experience

12th Grade

- On Site Half Day Morning (7:50 AM- 10:50 AM)
- High School- 3 courses (CHS English Composition I, Green Economics & Public Policy, Nanotechnology)
- 4 HVCC College Classes (2 Courses each semester)



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Clean Tech 9th Grade Overview:



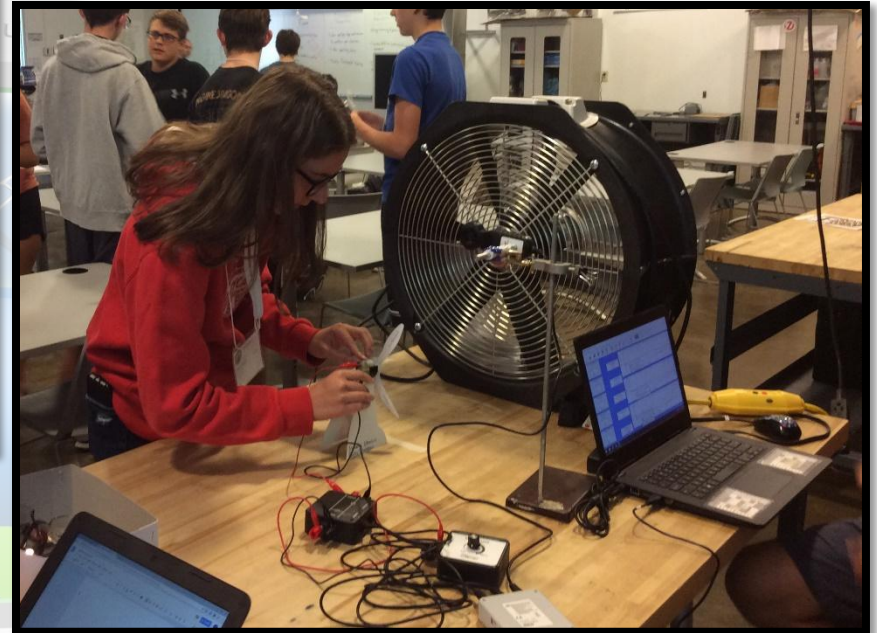
SMART

Education Center for
Manufacturing
Renewable Technologies

Ballston Spa
CENTRAL SCHOOL DISTRICT

Educating Everyone Takes Everyone

10th Grade



SMART

Education Center for
Vector Manufacturing
and Renewable Technologies

Ballston Spa

CENTRAL SCHOOL DISTRICT

Educating Everyone Takes Everyone

11th & 12th Grade

- Half day morning at TEC-SMART for high school & college coursework
- College Pathway Selection
 - 2 college courses each semester from HVCC college professors on college campus
- Work Based Learning
- Service Learning
- Job Shadows, Shark Tanks, Authentic Audiences, Project Exhibitions, On Site Mentoring with Industry Partners



Junior Year

- Classes
 - Environmental Science & Sustainability
 - Applied Mathematics in Clean Tech
 - English 11
 - P-TECH Reading & Research
- Example Topics
 - Bioenergy
 - Food & Agriculture (WFP)
 - Energy Audits
 - Microhousing
 - Impact of Wind Energy
 - Group Capstone Project



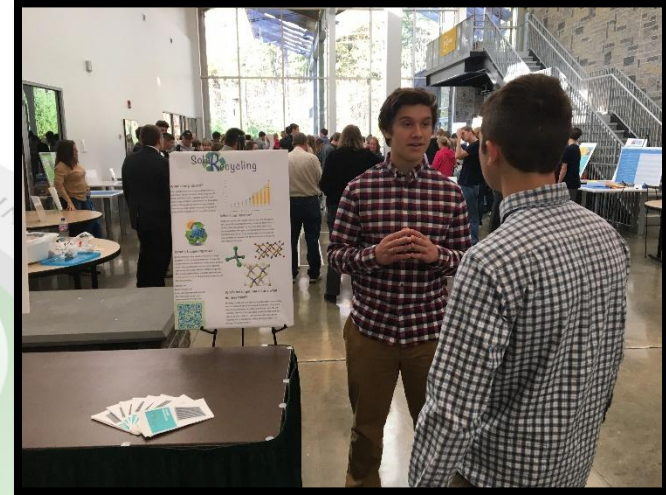
Training and Education Center for
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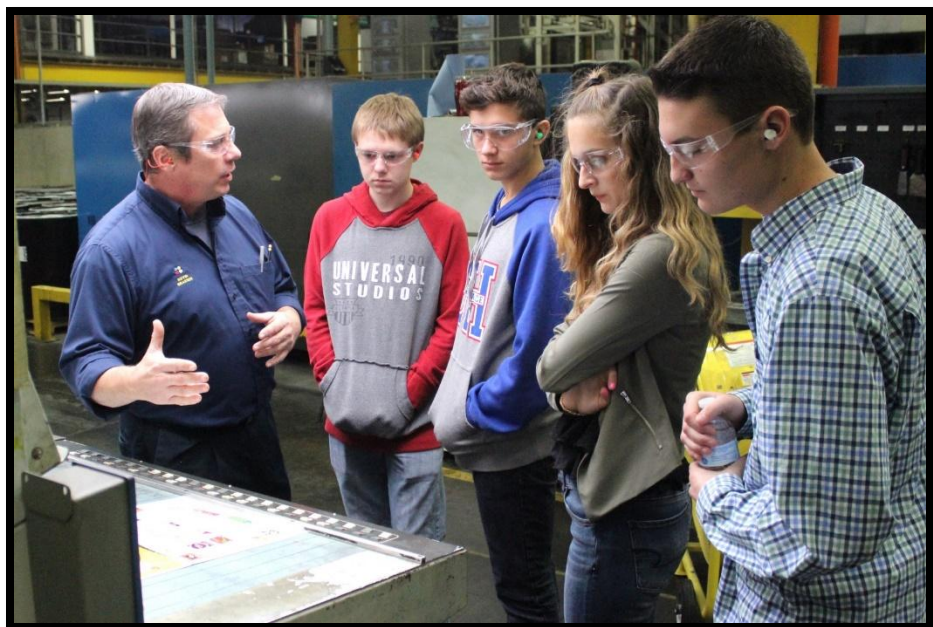
Ballston Spa
CENTRAL SCHOOL DISTRICT

Educating Everyone Takes Everyone

Senior Year

- Course
 - Intro to NanoTechnology
 - Green Economics & Public Policy
 - CHS English Composition I
- Themes:
 - College Essay Writing & Application Process
 - Why Nanotechnology?
 - Marketing
 - Role of Technology in the Political & Economic Environment
 - Microelectromechanical systems & cantilevers
 - Solar energy systems
 - Pushing the boundaries of nanotechnology
 - Globalization in the workforce
 - Capstone Project





SUSTAINABLE INDUSTRY

LEGAL



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and Alternative and Renewable Technologies



Ballston Spa
CENTRAL SCHOOL DISTRICT
Educating Everyone Takes Everyone

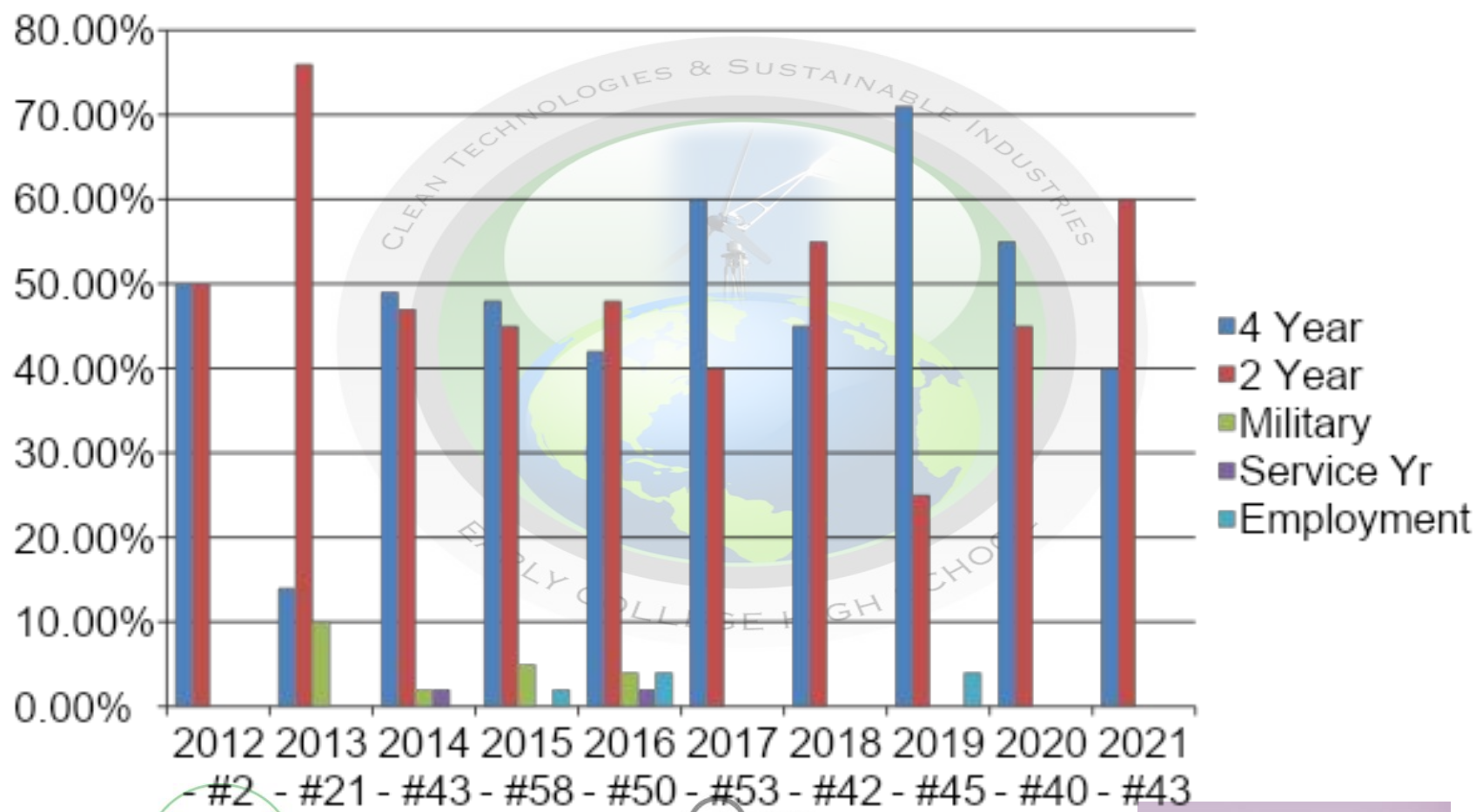
Student Life



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and Alternative and Renewable Technologies



Graduation Statistics - Future Plans



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and Alternative and Renewable Technologies



Colleges & Universities

Adirondack Community College
Alfred University
Allegheny College
Binghamton University
Cedarville University
Champlain College
Clarkson University
College of Nanoscale Science &
Engineering
Cornell University
Drexel University
Embry Riddle Aeronautical
University
Green Mountain College
Herkimer County Community
College
Hudson Valley Community College
Keene State College
Lyndon State College
Marist College
Middlebury College
Mohawk Valley Community College

Monroe Community College
Motlow Community College
Northeastern University
Oregon Institute of
Technology
Oregon State University
Pace University
Paul Smith's College
Pennsylvania State University
Philadelphia University
Rochester Institute of
Technology
Sage College of Albany
Siena College
St. John Fisher College
St. Lawrence University
SUNY Brockport
SUNY Canton
SUNY Cobleskill
SUNY College of
Environmental Science &
Forestry
SUNY Polytechnic Institute

SUNY Potsdam
The Citadel
Union College
SUNY Delhi
SUNY Oneonta
SUNY Oswego
SUNY Plattsburgh
United States Merchant Marine
Academy at Kings Point
University at Albany
University at Buffalo
University at Colorado at
Boulder
University of New Hampshire
University of New Haven
University of Prince Edward
Island
University of Rochester
University of South Carolina
University of Tampa
Utica College
Western New England
University



College Majors

Arboriculture &
Landscape Management
Aeronautical Engineering
Aerospace Engineering
Astrophysics
Astronomy
Biochemistry
Bioengineering
Biological Sciences
Biology
Biomedical Engineering
Business Management
Civil & Environmental
Engineering
Communication &
Creative Media
Computer Security
Criminal Justice

Electrical Construction
Electrical Engineering
Embedded Systems &
Control
Engineering Science
Environmental Policy
Environmental
Resources Engineering
Environmental Science
Film
Heating Ventilation &
Cooling
Individual Studies
International Business
IT Networking
Liberal Arts &
Sciences

Marine Engineering
Marketing
Math
Mechanical Engineering
Technology
Music Industry
Nanotechnology
Natural Resource
Management
Nursing
Physics
Pre-Law
Psychology
Therapeutic Horsemanship
Visual Communication
Design
Zoology



Student Supports

- Student Mentoring
- Tutoring Services
- Teacher Advisors
- On Site School Counselor & Administrator
- HVCC Workshops
- Home School Visits
- College Support Website



School Counseling Services

- Academic Support
- Social/Emotional Support
- Post-Secondary Planning
- Scholarship Opportunities
- College Visits
- Liaison with home school counseling office
- School Counselor Resource Page





Be bold. Be a Viking.



P·TECH

Pathways in Technology
Early College High School



Training and Education Center for
Semiconductor Manufacturing
and Alternative and Renewable Technologies



2023-2024 Incoming Student Application Process:



- Applications are available on our website:
 - <https://www.bsccd.org/domain/839>
- Information Night [November 9th](#) and January 17th at 6 PM at HVCC TEC-SMART
- Shadow Day **February 10th** 8-9:30 AM **Sign Up Here:** <https://forms.gle/dsYSL9Q5Rhppceyq8>
- Shadow Day **March 20th** 8-9:30 AM **Sign Up Here:** <https://forms.gle/Kqm2t6B6P5LSvTMg8>
- Students complete application and return to home school counselor.
- Home school will review and send selected applications to Ballston Spa Central School District by May 5th
 - ***Individual schools have their own criteria & selection process***
- Preference will be given to underrepresented groups in a STEM field
- Enrollment decisions will be made by early June



Contact Information

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