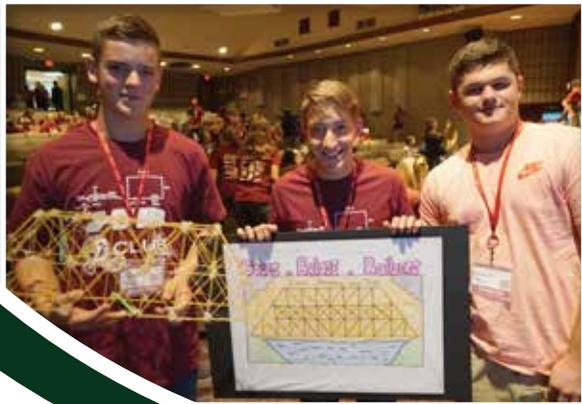
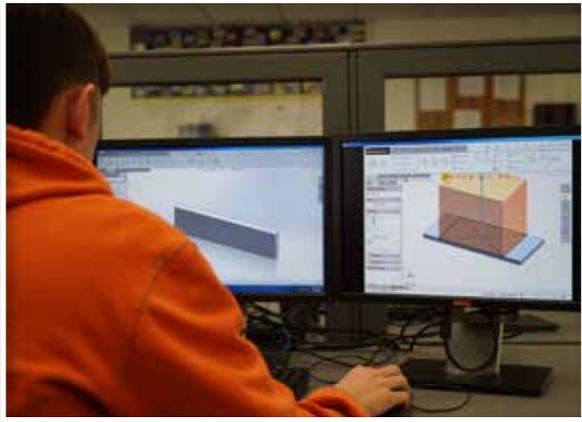


High School Academic and College Credits

Students in the 3D Modeling and Design program have the opportunity to earn four Career and Technical Education credits per year as well as high school credit for math and English. Students may also earn college credit with Alfred State College, Bryant and Stratton, Pennsylvania College of Technology, SUNY Delhi and Jefferson Community College. Students will also have the opportunity to earn 6 EDGE credits through JCC for

ENS 101: Engineering Graphics and
ENS 199: Introduction to Engineering
Design and Build.



"I've always been fond of and interested in architecture. This program helped me so much. I know so much more and I feel like I can do anything."

**- Abagayle DeBuck-Earl, Class of 2018
currently attending Pittsburgh Technical College**



Have a question or want to learn more?

Visit us at www.boces.com/careertech
or call the Charles H. Bohlen, Jr. Technical Center
in Watertown at **(315)779-7200**.

Classroom visits are available by appointment.



Jefferson-Lewis-Hamilton-Herkimer-Oneida-BOCES
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CareerTech

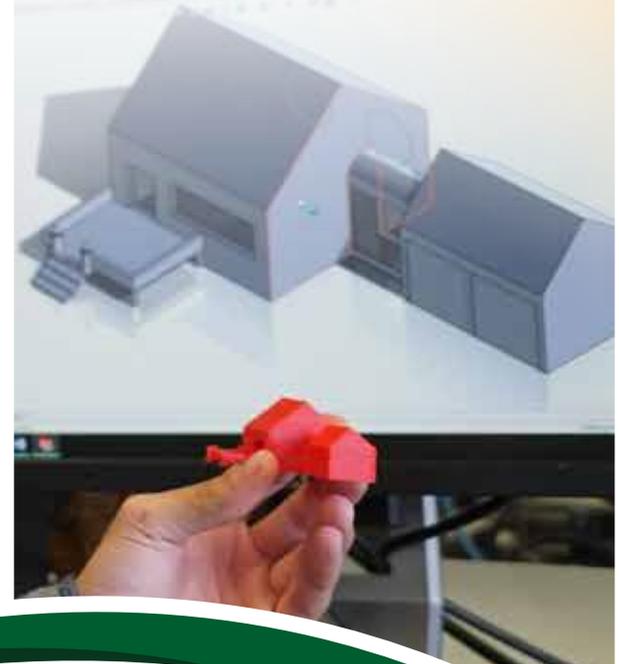
Learn Today. Succeed Tomorrow.

3D Modeling & Design

Charles H. Bohlen, Jr. Technical Center

*Everything starts with an idea.
Make it a reality.*

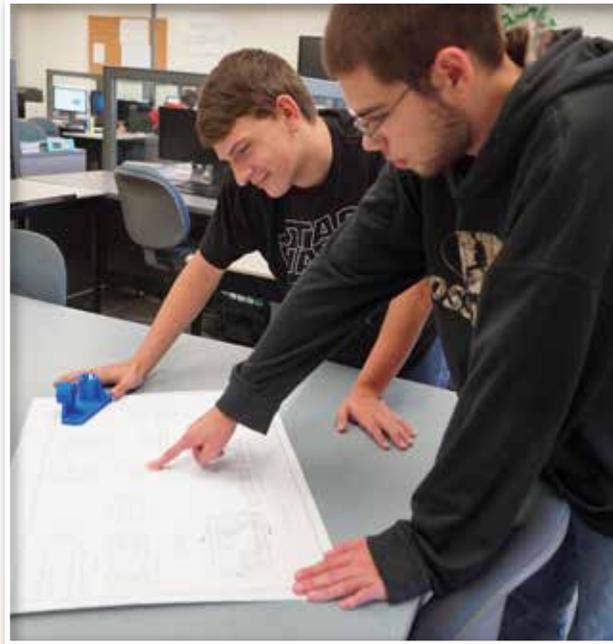
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Program Overview

Bringing an idea to life with imagination as your only limit, this cutting edge program includes instruction in three-dimensional modeling of buildings, statues, parks, skateboards, radios, trucks, bridges, solar farms, signs, city blocks and more. Students will develop the concept and go through design phases to make it a reality. 3D Modeling & Design is a hands-on course that provides the skills and work ethic to find success as an entry-level draftsman/CADD operator in the many fields of engineering. Graduates also have the opportunity to continue their education at the college level and earn a degree. This is an excellent program for high school students interested in careers in architectural or structural design.



Why 3D Modeling & Design?

Before any project can be built or product can be manufactured, planning and designing is needed. Blueprints have to be drawn or a prototype needs to be created. These highly skilled jobs are in-demand with numerous employment opportunities both locally and nationwide. Architects, engineers, and designers require high tech knowledge and skills and the ability to work as part of a team to bring a project to completion. It is one of the most challenging, yet financially rewarding career paths available.

The 3D Modeling & Design program gives students a competitive advantage in the architectural, designing and planning fields as they work with state of the art equipment and perfect problem solving skills through project-based-learning. Graduates of the program not only have the opportunity to move on to college and post-secondary education, they also have the opportunity to intern with local business, such as BCA Associates and others.

Sample Units of Study

- * Construction Systems
- * 3D Innovative Design & Printing
- * Architectural Design & Drafting
- * Plan Development
- * Engineering Graphics & Drawings



Career Opportunities & Potential Salaries*

Architecture Drafting

Median annual wage of \$57,440

Mechanical Drafting

Median annual wage of \$57,570

Civil Designer

Median annual wage of \$90,560

Electronic Drafter

Median annual wage of \$63,540

Industrial Design

Median annual wage of \$87,100

Prototyping (Medical, Food, Military)

Median annual wage of \$55,610

**New York State median. Based on information provided by NYS Department of Labor 2018*

Classroom Projects

- * Design and build a spaghetti bridge and compete against other students
- * Design and build architectural models
- * Build a mechanical arm prototype
- * Design and create miniature models like lego blocks or video game characters
- * Attend field trips to local businesses including BCA Associates and New York Air Brake to learn about potential careers.