Certificate in 3-D Technology for High School Students

The 3-D design, capture, and printing revolution is here, and is rapidly transforming society and diverse industries. Practical applications of 3-D design, capture, and printing are now found in the arts, food, education, healthcare, automotive, construction, and manufacturing sectors. Many entrepreneurs are starting new businesses on their innovations using of 3-D technologies. Large companies like Audi, BMW, GE, Global Foundries, Lockheed Martin, and others are looking for thousands of trained professionals with 3-D technology experience.

The Certificate in 3-D Technology offered by Vermont State University in collaboration with its recently established, cutting-edge Advanced Manufacturing Center will prepare students for greater success in college and for high-paying, clean jobs right after high school if they so choose.

The full certificate program consists of three, 3-credit courses, totaling in 9 college credits and will be offered as full-time, 6-week, intensive residential summer program at the Randolph and Castleton campuses.

The program will:
- Offer knowledge and hands on experience that appeals to wide range of interests from science and engineering to the arts and humanities.
- Position students for greater success in college and with an employable edge upon completion.
- Attract diverse types of learners from High Schools and Career Technical Education centers.
- Foster STE(A)M interest with learners across different disciplines.
- Leverage the latest 3-D technology at one of nation's most modern Advanced Manufacturing Center located at Vermont State University.
- Build local and national awareness of Vermont State University's innovative experiential learning methodology and technical expertise.

Eligibility: Students finishing 9th, 10th, 11th, and 12th grade with 2.7 or higher overall GPA

Number of students admitted: 30 per cohort and two cohorts per summer on the Randolph and Castleton campuses (120 students per year)

Total program cost inclusive of all tuition & fees and room & board per student: $7,500

Total budget request from AOE for a total of 200 Vermont students in two years: $1,563,500*

- 100 full scholarships: $750,000
- 100 tuition scholarships (no room & board): $550,000
- Program stand-up cost: $263,500

Year 1 Request: $913,500; Year 2 Request: $650,000

*Dual enrollment vouchers are not accepted for this specialized technology program