

NEW VISIONS: APPLIED ENGINEERING PROGRAM

NVAE (North & South)

APPLICATION PACKET

UPDATED 9/30/25

The New Visions: Applied Engineering Program is a competitive, application-based program for High School Seniors expressing an interest in a post-secondary educational experience in the Field of Engineering. This rigorous one-year exploratory program is for select college-bound seniors planning to major in a field of study in Engineering and/or related fields. The academic curriculum is combined with practical, applied work experience as students engage in STEM concepts at the Institute of Advanced Manufacturing (IAM) and through clinical observations with business & industry partners in the field. The program will incorporate dual enrollment in college and high school credit-bearing coursework with career exploration and Work-Based Learning (WBL) experiences in Applied Engineering. Students will participate in daily ½ day sessions for the course of the school year during the Senior Year. The purpose of this program is to increase student success with determining a college major and career pathway in the Field of Engineering and/or related fields while completing dual high school and college credit-bearing coursework.

Submit Application To:

CV-TEC
c/o Chirag Patel
Student Services
PO Box 455
Plattsburgh, NY 12901
patel_chirag@cves.org

Application Deadline: Friday, February 27, 2026

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Information for Candidates and Parents

Description:

The New Visions: Applied Engineering Program is a competitive, application-based, rigorous one-year exploratory program for select college-bound seniors planning to major in a field of study in Engineering and/or related fields. The academic curriculum is combined with practical, applied work experience as students engage in STEM concepts at the **Institute of Advanced Manufacturing (IAM) and the CV-TEC Mineville (South) campus** along with clinical observations with business & industry partners in the field. The program incorporates dual enrollment in college and high school credit-bearing coursework with career exploration and Work-Based Learning (WBL) experiences in Applied Engineering. Students will participate in daily half-day sessions for the course of the school year during their Senior Year.

The program has two locations: The **Institute of Advanced Manufacturing (IAM)** in the North, and the **CV-TEC Mineville Campus** in the South; each with dual credit options at both Clinton Community College and North Country Community College, respectively.

Qualifications for Admission:

CV-TEC will enroll up to 12 seniors per location in the New Visions: Applied Engineering Program. We encourage highly motivated, adaptive, high school juniors to apply.

Applicants **MUST**:

- have a minimum of 3 years of Regents Math (or equivalent),
- have a minimum of 3 years of Regents Science (or equivalent),
- have a cumulative average of 85% or higher,
- be interested in a post-secondary program in the field of or related to Engineering,
- possess good communication skills (i.e., writing, speaking, listening),
- highly recommended: pre-calculus.

Students who wish to apply need to complete a competitive application process that includes submission of references, an interview, and an essay. All components of the application MUST be completed in their entirety and submitted by the posted deadline for consideration.

Students applying to more than one CV-TEC New Visions Program:

Students may apply for both the New Visions Medical Careers Program and the New Visions Applied Engineering Program at CV-TEC. Please note:

- Both individual applications must be completed and submitted
- One interview will be scheduled for both program applications
- Applicants will be required to state their program first choice at the conclusion of the interview

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PHASE 1:

To the Applicant:

1. Complete the Student Data Form (included in this packet).
2. Email enclosed teacher evaluations to the respective teachers and ask them to email the completed forms promptly to your high school counselor.
3. Write an essay following the guidelines included in this packet.
4. Return the completed application to your high school counselor.

To the School Counselor:

1. Complete the counselor recommendation.
2. Provide the applicant's transcript, including grades for junior year courses in progress.
3. Provide current Class Rank (Standing)
4. Receive two teacher evaluations/recommendations. ***One must be from their current math teacher or math department chair supporting the applicant's preparedness for Pre-Calculus.*** (emailed directly from the teacher, at the applicant's request, to the school counselor)
5. Submit the application packet to CV-TEC. Each application packet must include the following items:
 - Completed Student Data Form
 - Two Teacher Evaluations
 - One Counselor Evaluation
 - Student Transcript (**Please include GPA and Class rank if not reported on Transcript**)
 - Student Essay (See Guidelines)

All the required components must be received electronically, OR postmarked, in their entirety, by the deadline of February 27, 2026 to be considered.

Please send entire packet (hard copies) **OR** one PDF document with all required documents to:

CV-TEC
c/o Mr. Chirag Patel
Student Services
P.O. Box 455
Plattsburgh, NY 12901
patel_chirag@cves.org

PHASE 2:

Student Interview: Students who are selected to move forward in the selection process will be required to participate in an interview with the New Visions: Applied Engineering Committee. Students will be notified individually by **e-mail** if they have moved on to the Phase II Interview and the date/time their interview has been scheduled. This information will also be shared with the student's School Counselor via e-mail. This is a professional interview. Applicants should dress accordingly.

PHASE 3:

Notification of Acceptance: Applicants will receive notification of their acceptance status and session assignment via **e-mail**. School Counselors will be notified via e-mail which students have been selected and to which session they have been assigned. Session assignments are unable to be changed.

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STUDENT DATA FORM

Student Name		
Address		
	Student Personal E-Mail	
	Student School E-Mail	
	Student Cell Phone	
Student Shirt Size		
Parent(s)/Guardian(s)		Relationship to student:
Parent/Guardian Phone		
Home School District		
Home School Counselor		
Home School Counselor E-Mail		
Home School Counselor Work Phone Number		

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Essay Guidelines

Please prepare a 200–300-word essay: ***Why do you believe you are the best suited candidate for the New Visions: Applied Engineering Program; and why do you wish to participate in the New Visions: Applied Engineering Program?***

The essay should be computer generated, with a focus on overall presentation, creativity, clarity, and proper use of grammar and conventions. The following are **examples** of topics that should be discussed in your essay.

- ✓ The field of engineering is typically described as having 4 major branches: Chemical Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering. Describe your career goals relative to one or more of these areas or related to Engineering.
- ✓ What colleges are you considering upon graduation?
- ✓ What are your favorite subject(s) in school?
- ✓ List your interests/activities both in school and outside of school.
- ✓ List prior experience (paid or volunteer) you have had.
- ✓ State your qualifications that make you suited for the New Visions: Applied Engineering Program.
- ✓ State your reasons for interest in this career field.
- ✓ Detail any school or community experiences in engineering, construction, computer technology, or related fields.

Essay must be typed and then signed by applicant.

Public Non-Discrimination Notice:

Champlain Valley Educational Services does not discriminate on the basis of race, color, national origin, sex, disability, age or any other legally protected status in its programs, activities, employment and admissions; and provides equal access to the Boy Scouts and other designated youth groups.

Inquiries regarding this nondiscrimination policy may be directed to:

Mr. Matthew Walentuk – Title IX Compliance Officer

Ms. Susanne Ford – Title IX Compliance Officer

Dr. Matthew Slattery – 504 Compliance Officer

1585 Military Turnpike

P.O. Box 455, Plattsburgh, NY 12901

Phone: 518-561-0100

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APPLICATION PACKET

Teacher Evaluation Form (Confidential)

***Must be completed and emailed directly to the home school counselor & included in the New Visions: Applied Engineering Application Submission Packet. Complete packet deadline to CV-TEC: February 27, 2026.**

Student Name: _____ School District: _____

Teacher Name: _____

E-mail and phone number: _____

Please rate the student on the following indicators, based on the following 1-5 Scale, with 5 being above average, 3 being average, and 1 being below average. Please place a check in the appropriate box.

	1	2	3	4	5
Intellectual Ability					
Academic Achievements					
Communication Skills (Oral)					
Communication Skills (Written)					
Imagination and Creativity					
Reactions to Set Backs					
Class Engagement					
Willingness to Challenge Self					
Quality of Work					
Willingness to Work with Others					
Time Management					
Maturity					
Demonstrates Leadership					
Demonstrates Independence/Initiative					

***On the next page, or in a separate letter, please describe your relationship with the student and why you feel this student would be an ideal candidate for the New Visions: Applied Engineering Program.**

Signature

Date

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APPLICATION PACKET

Teacher Evaluation Form (Confidential)

***Must be completed and emailed directly to the home school counselor & included in the New Visions: Applied Engineering Application Submission Packet. Complete packet deadline to CV-TEC: February 27, 2026.**

Student Name: _____ School District: _____

Teacher Name: _____

E-mail and phone number: _____

Please rate the student on the following indicators, based on the following 1-5 Scale, with 5 being above average, 3 being average, and 1 being below average. Please place a check in the appropriate box.

	1	2	3	4	5
Intellectual Ability					
Academic Achievements					
Communication Skills (Oral)					
Communication Skills (Written)					
Imagination and Creativity					
Reactions to Set Backs					
Class Engagement					
Willingness to Challenge Self					
Quality of Work					
Willingness to Work with Others					
Time Management					
Maturity					
Demonstrates Leadership					
Demonstrates Independence/Initiative					

***On the next page, or in a separate letter, please describe your relationship with the student and why you feel this student would be an ideal candidate for the New Visions: Applied Engineering Program.**

Signature

Date

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APPLICATION PACKET

Counselor Evaluation Form (Confidential)

***Must be completed by the home school counselor & included in the New Visions: Applied Engineering Application Submission Packet. Complete packet deadline: February 27, 2026.**

Student Name: _____ School: _____

Counselor Name: _____

E-mail and phone number: _____

Please rate the student on the following indicators, based on the following 1-5 Scale, with 5 being above average, 3 being average, and 1 being below average. Please place a check in the appropriate box.

	1	2	3	4	5
Intellectual Ability					
Academic Achievements					
Communication Skills (Oral)					
Communication Skills (Written)					
Imagination and Creativity					
Reactions to Set Backs					
Class Engagement					
Willingness to Challenge Self					
Quality of Work					
Willingness to Work with Others					
Time Management					
Maturity					
Demonstrates Leadership					
Demonstrates Independence/Initiative					

***On the next page, or in a separate letter, please describe your relationship with the student and why you feel this student would be an ideal candidate for the New Visions: Applied Engineering Program.**

Signature

Date

