



## SCIENCE, TECHNOLOGY, ENGINEERING & MATH (STEM)

The Questar III New Visions program in Science, Technology, Engineering & Math (STEM) is located on the Rensselaer Polytechnic Institute Campus in Troy, NY and is an ideal choice for students who are planning to attend an undergraduate program in engineering or the physical sciences. This challenging program, which blends practical experience with classroom instruction, exposes students to various engineering fields, research, applied mathematics, technology, and the sciences. Students learn about a wide range of career and educational opportunities in STEM fields through interactions with college faculty and professionals, while engaging in rigorous college coursework and meeting NYS graduation requirements.

### POTENTIAL CAREER OPPORTUNITIES:

- Chemical Engineering
- Nuclear Physics
- Computer Science
- Civil Engineering
- Material Sciences
- Biomedical Engineering
- Mechanical Engineering
- Aeronautical Engineering

### CHARACTERISTICS FOR SUCCESS:

- Teamwork
- Self-Starter
- Curiosity
- Perseverance

# New Visions

## SOFTWARE ENGINEER

MEDIAN SALARY  
**\$109,000**

% OF PROJECTED JOB GROWTH  
OVER TEN YEARS  
**25%**

## AEROSPACE ENGINEER

MEDIAN SALARY  
**\$122,000**

% OF PROJECTED JOB GROWTH  
OVER TEN YEARS  
**6%**

## CHEMICAL ENGINEER

MEDIAN SALARY  
**\$106,000**

% OF PROJECTED JOB GROWTH  
OVER TEN YEARS  
**14%**

QUESTAR III

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## STUDENTS WILL:

- Be exposed to various engineering fields, research, applied mathematics, technology & sciences
- Study how to implement state-of-the-art science
- Explore the world of technology and engineering
- Interact with college faculty, scientific professionals, and researchers
- Attend STEM related seminars & events

## HIGH SCHOOL CREDIT:

- Participation on Government – ½ Credit
- Economics – ½ Credit
- English 12 Honors – 1 Credit
- Advanced Engineering Research and Applications (AERA) – 1 Credit

*Please Note: Additional high school credit in Physical Education (1/2 credit) may be available upon district request and approval*

## COLLEGE COURSES:

- Physics 1100 (PHYS 100) – 4 Credits (through RPI)
- Physics 1200 (PHYS 1200) – 4 Credits (through RPI) *\*Only offered to students who achieve a grade of B or higher in Physics 1100; if below a B, student has the opportunity to retake Physics 1100*

## COLLEGE GRADUATES HAVE ATTENDED:

- RPI, HVCC, Dartmouth, Cornell, Brown, Clarkson, RIT, WPI, Boston University, Northwestern University, Embry–Riddle Aeronautical University, University at Buffalo, and SUNY Binghamton

## RECOMMENDED HOME SCHOOL DISTRICT COURSES (if applicable):

- Calculus AB or BC



[www.questar.org/cte](http://www.questar.org/cte)

**NON-DISCRIMINATION NOTICE FOR STUDENTS AND PROSPECTIVE STUDENTS:** Questar III does not discriminate on the basis of actual or perceived race, color, national origin, sex, disability, age, weight, ethnic group, religion, religious practice, sexual orientation, gender identity or expression, or other characteristic protected by federal or state law in its programs and activities, including but not limited to admission, access to and participation in educational programs, course offerings and student activities. Questar III provides equal access to the Boy Scouts of America and other designated youth groups. The following persons at Questar III have been designated to handle inquiries regarding Questar III's non-discrimination policies and the application of regulations prohibiting discrimination:

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SCHOOL ATTORNEY – QUESTAR III BOCES | 10 Empire State Blvd., Castleton, NY 12033 | 518-477-8771

For further information on notice of non-discrimination, or to inquire regarding the application of regulations prohibiting discrimination, contact the U.S. Department of Education, Office for Civil Rights.

# New Visions



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