



MATH PIONEER

WHAT IS STEM?

You like to crunch numbers. You're a master at solving puzzles, uncovering patterns, and understanding formulas. You're constantly moving forward, always searching for the next challenge. Get more advanced skills that will prepare you for your future. The National Guard's math pioneers learn how to use analytical techniques and mathematical models to formulate and solve complex problems - breaking codes, analyzing foreign intelligence communications, and using statistics to predict possible outcomes.

SCIENCE ★ TECHNOLOGY ★ ENGINEERING ★ MATH

35N SIGNALS INTELLIGENCE ANALYST:

Supervise, analyze, and report intercepted foreign communications at all levels of command. Assist in synchronizing intelligence, surveillance, and reconnaissance. Produce combat, strategic, and tactical intelligence reports.

Eighty percent of the fastest-growing occupational fields depend on skills learned through these four disciplines, including building smartphone apps, developing inner-city transportation plans, designing alternate fuel types, and solving complex economic problems.

The National Guard is dedicated to preparing the next generation of STEM pioneers, offering a wide range of jobs that will build these skills and prepare you for a lifetime of rewarding work. If you want to go to college, the Guard can help with scholarships and additional support to help you get into and pay for the school of your choice.

WHICH KIND OF STEM PIONEER ARE YOU?

It may feel overwhelming, but with so many options and possibilities, you're sure to find something that fits your unique interests.





SCIENCE PIONEER

You're eager to be at the forefront of discoveries and explorations. You're a tinkerer, a scientist who's ready to do something brilliant. The National Guard's science pioneers are trained to solve complex problems ranging from environmental and geographical challenges to toxicological, chemical, biological, radiological, and nuclear issues.

74D CHEMICAL OPERATIONS SPECIALIST:

Operate specialized equipment; train, advise, and supervise the proper use and maintenance procedures of such equipment.



ENGINEERING PIONEER

You enjoy taking things apart and putting them back together - just to understand how they work. The National Guard's engineering pioneers receive hands-on training far beyond the scope of traditional civil engineers. You'll become an expert in mobility and counter mobility, adept at anything from topographic survey to construction and demolition of buildings in the field. You'll learn how to make things move, ensuring the Guard can transport people and supplies to communities that need help during natural disasters. You will make a difference in the lives of others, improving safety, access, and protection of civilians across the nation.

12B COMBAT ENGINEER:

Manage, serve, and assist in providing engineering support to forces. Operate armored vehicle-launched bridges, and large-scale earthmovers.



TECHNOLOGY PIONEER

You're always one step ahead of technology. You know the ins and outs of how things work - whether it's the newest smartphone, tablet, or operating system. From satellite communications to network infrastructure to weather and air traffic control systems, the National Guard's technology pioneers support global communications and intelligence efforts.

25B INFORMATION TECHNOLOGIES SPECIALIST:

Supervise, install, and perform maintenance on information processing systems, peripheral equipment, and associated devices in mobile and fixed facilities. Construct, edit, and test computer system programs.



12H CONSTRUCTION ENGINEERING SUPERVISOR:

Manage the construction, repair, and utility services of buildings, fixed bridges, port facilities, pipelines, tanks, and related equipment.

