

SECME: GOING OUT ON A STEM!

Charity Glover

8th Grade

McKee Middle School

District 6

Mrs. Julius

During the course of this essay, the one thing that STEMulated my mind was the engineering field. Over the couple of weeks of doing research, the job that caught my attention in the engineering field was the Environmental engineer. In this field of engineering it focuses on studying the technologies that make our environment safer for humans and eliminating waste materials that could be dangerous for our health. My research has shown me that the best school for me to go to would be North Carolina A&T University.

I believe that North Carolina A&T has a-lot to offer and would be a great place for me to go because of the endless opportunities that they have for their students. For the past couple of years, the engineering field has been involved in many programs that give back to the community. The engineering majors have volunteered at the Greensboro Children's Museum for the past five years and have provided hand- on activities and exhibits for the children to enjoy. I would love to be a person that has an impact on another person's life.

North Carolina A&T University also competes in the ASCE Carolina Conference which is hosted in Charleston, South Carolina. In this particular competition the students have to build a concrete canoe and a steel bridge, these of course, are the major events. Other events include the quiz bowl, the environmental challenge, and many others. I believe that doing these things will help me in the future when I become an environmental engineer.

Also while doing research I found out about the SECME industries. The SECME industries include NASA Space Program, John Deere, Lockheed Martin, Exxon Mobile, Dupont, Pratt & Whitney, and Newell Rubbermaid. These industries are dedicated to helping the SECME program and the students that are in it by encouraging them to ignite their minds through STEM education.

John Deere is a great business for those who would like to transform and enrich the land which we live in. John Deere is dedicated to those who have a desire to improve our environment through farming, ranching, landowning, and buildings. This commitment extends globally with a focus on 6 key areas; the United States, Canada, Europe, Brazil, Russia, & China. It is in these areas where at least 75% of the world's future growth will occur. For nearly 175 years, the quality of the John Deere Company has been expressed through its leadership. John Deere works everyday to uphold its founders core values which include; integrity, quality, commitment, & innovation. The commitment that John Deere has for success in business has really STEMulated my mind to help our environment.

The environmental engineer address a wide range of natural and man made problems that exist in both undeveloped countries and highly technological societies. Some of the problems he or she may face include wasted water management, air pollution control, waste disposal, and public health issues. An environmental engineer must have the ability to analyze a problem, interpret the results, and create a solution that helps make our environment safer.

Air pollution is one of the most serious problems in our environment. The introduction of chemicals, biological materials, or other harmful materials into the Earth's atmosphere could possibly cause death to humans and damage to other living organisms such as food crops. The atmosphere is a complex, natural gaseous system that is essential to support life on plant earth. Air pollution has long been recognized as a threat to human health, as well as to the Earth's ecosystems.

Scientists have developed air pollution dispersion models to evaluate the overall air quality from vehicle exhausts and industrial gas stack emissions. Scientists are always experimenting with different technologies to make our air safer for our society.

The environmental engineer is always concerned with improving the public health of our society. Public health is the science of preventing disease, prolonging life, and promoting health through the organized efforts and informed choices of our society.

The focus of public health intervention is to improve health and quality of life through the prevention and treatment of disease and other physical and mental health conditions. Promotion of hand washing and breast feeding, delivery of vaccinations, and distribution of condoms to control the spread of sexually transmitted diseases are examples of common public health measures.

Graduates that have specialized in environmental engineering are employed by industries, environmental agencies, and consulting engineering firms. This is why I chose the environmental engineering field because it will successfully prepare me to address the challenges that our society face. In the future to come, we must have the ability to analyze a problem and create a solution that makes our environment safer. This really STEMulates my mind because it challenges me to come up with solutions that our world has never known to make our environment a better and safer place to live in.