



Women *in* STEM

CONFERENCE

Saturday, May 22nd, 2021

8:45 am – 1:15 pm

Virtual - Zoom link will be sent after registration

Registration closes 5/5/21

The Northboro Junior Woman's Club will be holding its thirteenth "Women in Science, Technology, Engineering and Math (STEM) Conference" to give middle school girls the opportunity to explore careers in science, technology, engineering and math. After an opening presentation, the girls will be able to attend four, 40 minute interactive career workshops. Presenters will represent fields such as Architecture, Nursing, Biotechnology, Teaching, Engineering, Conservation, Physical Therapy, Biology, Chemistry and various Medical Professions. The presenters will explain what they do in their occupation and what sparked their interest in the field, share different tips on courses of study needed for their profession, and provide hands-on exploration/activities.

Brief Q&A sessions will take place between workshops with a Robotics Team, a chef and an engineer from NASA!

Enrollment this year is limited to the first 150 girls. This program has historically been very popular and always fills to capacity.

Please see the description of the workshops on the following page.

Please go to this link to register:

[2021 NJWC Virtual Women in STEM Conference](#)

NO information collected via this registration will be shared.

If you have any questions please contact us via email at: STEM@northborojuniors.org
or call Mary Ellen at 774-258-1500.

Some workshops will have supplies that we will provide. Pick up of these supplies will take place on May 15th.

Architect – **Dream It, Design It, Build It** - If you were to explore a day in the life of an architect, it could look radically different from one day to the next. Learn more about the broad array of tasks, projects types, positions, and personalities in this challenging profession. Session will include discussion on technology, education path, salary ranges, and a mock design project.

Conservation Agent – **Wetlands and Groundwater** Come explore the water all around us.

Nursing – **ABC's of Nursing** - Learn about the vast opportunities in the awesome field of nursing.

Science Teacher - **DNA Technology** – Use extracted DNA samples from a crime scene to determine the perpetrator of a jewelry theft. Use your skills of deduction in a small group setting and learn the biotechnology skills of micropipeting and agarose gel electrophoresis.

Electrical Engineer/Tech Ed Specialist – **BristleBots** - Explore the engineering design process by building a small robot prototype.

Pediatrician – **A week in the life of a pediatrician!** Learn basic history taking and physical exam skills and how to deliver important health messages. Use those skills to solve some medical mysteries and design a 'healthy mind/healthy body' ad campaign.

Science Teacher – **Reach for the Moon, Land Among the Stars** Come explore space and create a light up exploded star or constellation.

Infectious Disease Doctor - What do we do when there's not a pandemic?

Research Scientists – **Chemistry, Biology and Biotech** - Come and explore the world of drug discovery through the eyes of chemists and biologists. Create chemical reactions, learning about the world of developing medicine and the importance of biology in our everyday lives. If you've ever been curious to know what it's like working in the world of biotechnology, then join us for a lot of fun experiments!

Physical Therapist **Hip Hip Hooray!** Learn more about the profession of physical therapy, components of posture analysis, injury prevention and exercises for athletes.

Engineering and Environmental Science – **Squishy Circuits** - Come have some fun! Build a simple circuit out of conductive clay and talk to some of the young women working to shape a green and sustainable energy future for all of us.

Biomedical Engineering **A Doctor's Best Friend** – Where do all those medical devices used by doctors to diagnose and treat patients come from? Just like TVs, cars, and robots, medical devices need to be engineered! Come learn about biomedical engineering and build a prosthetic limb.

Urgent Care Physician – **Medical Mysteries** - Can you use your fact collecting skills, create a problem list, prioritize information to solve the medical mystery and create a treatment plan for your patient.

Research Scientist - Come explore the world of immunity with a scientist from Moderna.

Underwriting Manager - **Do these numbers add up?** What is an underwriter and what do they do? Enter the world of numbers, analyzing risks and calculating benefits.

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