

## Win a Biotechnology Workshop

A limited number of Walworth County teachers will win a FREE hands-on 60-minute "Doing DNA" workshop for up to 24 students! **BE AMONG THE FIRST** to express interest in this workshop, and sign up to use one or more "Scientists Live" videos with your students.

Kits containing all of the supplies each student will need to extract DNA glop from wheat germ will be provided. Students will also receive a sample of highly purified DNA, a model of single-strand DNA, and two color changing pencils. You will need to provide 30 ml (2 tablespoons of ice-cold rubbing alcohol) and one cup of water per student, along with four cups of colored water made with red, green, yellow, and blue food dye. Workshop will be led virtually by Tom Zinnen and Liz Jesse, UW-Madison Biotechnology Center, and two of the "Scientists Live" careers series scientists.

Workshop cost for other interested parties will be \$4.55 per student. You will be billed following registration and contacted by Tom or Liz to set a date. Register for this workshop at the "Scientists Live" registration link.



*The University of Wisconsin-Madison Division of Extension is an EEO/AA institution committed to diversity among its employees and in its programs.*



**For more information, contact:  
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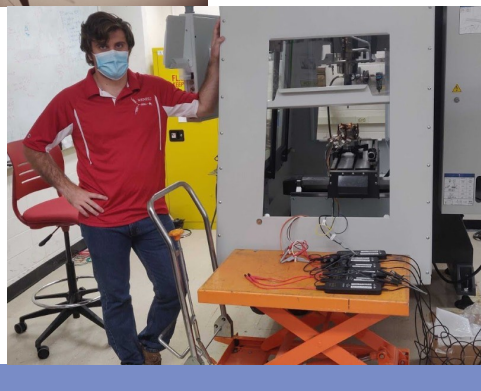
## SCIENCE CAREER SERIES

*For Grades 8-12*



**Extension**  
UNIVERSITY OF WISCONSIN-MADISON

**Learn about 24 science-related careers directly from the professionals doing them.**



## STEM career opportunities are projected to grow.

According to a September, 2020 U.S. Bureau of Labor Statistics report, science, technology, engineering, and math (STEM) jobs are expected to increase 8% by 2029. These occupations include computer and mathematical, architecture and engineering, and life and physical science occupations, as well as managerial and postsecondary teaching occupations and sales occupations requiring scientific or technical knowledge at the postsecondary level. The current (2019) median salary of STEM positions is more than **double** that of non-STEM positions (*Employment in STEM Occupations, 2020*).

4-H Science Explorers programming is done in partnership by Crawford, Lafayette, and Walworth County Extension offices and the UW-Madison Biotechnology Center BioTrek Program staff.

## Expose Students to a Variety of STEM-related careers.

The "Scientists Live" 4-H careers series aims to expand student awareness of the wide variety of science-related careers available in today's world.

The series, conducted live during the spring of 2020, consists of **twenty-four** 30-minute episodes. Each introduces students to a "scientist" who shares a 15-20 minute presentation and then addresses questions posed by the original participants. Presentation styles vary, but all of the scientists answer these fundamental questions:



- \*What do you do?
- \*What do you enjoy most about your career?
- \*What do you find most challenging about your career?
- \*What personality style or characteristics do successful people in this field have?
- \*What kind of schooling is necessary to pursue this career field?
- \*What advice do you have for youth considering a career in this field?

## Access videos for free.

Access all of the Spring, 2020 videos by completing the registration form at this link: <https://forms.gle/5wBRjUscPn62zuA67>. A "Reflection Guide" handout is provided at the video link for use with students, and you will receive a deck of

scientist trading cards to use with your students as you deem appropriate.

All registered teachers will be asked to complete a simple evaluation form AND submit participant data to their local 4-H Educator at the end of the school year. Additionally, a short student evaluation will be requested.

## Videos include the following:

- Tom Zinnen** ~ Biotechnology Specialist
- Liz Jesse** ~ Science Outreach Specialist
- Kristen Velyvis** ~ Demographer & Sociologist
- Allison Bender** ~ Science Outreach Coordinator
- Jaime Cordova** ~ Geneticist & Astrobiologist
- Michelle Craig** ~ Dairy Animal Scientist
- Bernie O'Rourke** ~ Extension Livestock Specialist
- Johanna Oosterwyk** ~ Greenhouse Manager
- Geena Whalen** ~ Product Development Technologist
- Lennon Rodgers** ~ Mechanical Engineer
- Bea Mumm** ~ UW-Madison Student
- Annika Swenson** ~ Biologist/Epidemiologist
- Ron Kean** ~ Extension State Poultry Specialist
- Natalie Blonien** ~ PD, DPT, Neurologic Clinical Specialist
- BJ Jones** ~ Veterinarian
- Caitlin Carlson** ~ Ecologist/Microbiologist
- Todd Cauffman** ~ Architect
- Jerry Butler** ~ Artist
- Michael Rozier** ~ Cabinetmaker
- Brent Whalen** ~ High School Science Teacher
- Gail Simpson** ~ Artist of Large Scale Public Art
- Cassie Doody** ~ Chemical Biology Grad Student
- Eric Severson** ~ Electrical Engineer/Electric motor Researcher with **Anson Chan** and **Martin Johnson**, Mechanical Engineering Students
- Lynn Markham** ~ Shoreland & Land use Specialist

*"Because of "Scientists Live," I now know I can be a scientist, and there is a science career out there for me!"*

*"I now see that there is so much you can do with science, and not just the things they teach you in school."*

—Spring, 2020 student participants

## 4-H Science Explorers

Exploring science career paths with YOUth.

A Crawford, Lafayette, & Walworth County Partnership

