

Michigan Science Olympiad

Career Preview 2018

Meet experts from many businesses and organizations

Learn about a variety of fascinating science-based careers

Learn what college experiences prepare you for those careers



**Forensic
Science
Division**



Bioeconomy Institute
MICHIGAN STATE UNIVERSITY



Great Lakes Section
Institute of Food Technologists



Powering Business Worldwide

**MICHIGAN STATE
UNIVERSITY**

College of Veterinary Medicine



GE Aviation



College of Osteopathic Medicine
MICHIGAN STATE UNIVERSITY

WACKER

Career Preview Schedule

Time

2:30 – 5:00pm	All participating organizations host a table in the common area, and meet students there during the entire preview
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Individual presentations by participating organizations

Room 1 BPS 1410

Room 2 BPS 1415

3:00 – 3:25	Eaton	MSU College of Orthopedic Medicine
3:30 – 3:55	Michigan State Police Forensics Lab	MSU College of Veterinary Medicine
4:00 – 4:30	BASF Performance Materials and Coatings	

For room locations, see the map on the back page

Attend the Preview, and maybe you'll win a computer!

We are giving away two Dell notebook computers to lucky attendees.

The winners will be announced during the awards ceremony.



Dell Notebook Computer Raffle Rules

- Only Science Olympiad students are eligible
- Only one ballot per student
- The student must submit a ballot at the Career Preview
- Students must attend the awards ceremony to win

Participating Organizations

MSU College of Veterinary Medicine

Veterinary Medicine is one of the most rewarding, well-respected, and versatile careers for people who are passionate about animals. Veterinarians play a vital role in medical teaching and research, public health, government, policy, and military service. Veterinarians perform **food safety inspections** to keep our food supply healthy and safe, **investigate disease** outbreaks, and **enforce animal welfare** laws. They are **teachers, advisors, administrators, and researchers** at colleges and universities, on farms, and in laboratories. In the military, veterinarians provide food safety inspection and infectious disease control. Veterinarians are **animal advocates, public policy** shapers, **animal shelter managers**, pathobiology and toxicology **researchers, laboratory scientists, and medical diagnosticians**.

The MSU College of Veterinary Medicine offers three undergraduate programs. Stop by our booth to learn more about those and other great opportunities.

Dell Notebook Computer Raffle Ballot

Please print clearly

School Name _____

Student Name _____

Student Phone Number _____

Participating Organizations

Mead & Hunt

Employing more than 600 engineering, architectural, planning, and preservation professionals across the country, Mead & Hunt is a top-rated design consulting firm. We provide services largely to the transportation, public architecture, aviation, municipal, water resources, food and industrial, and military industries. Our culture includes many young professionals who want to excel in a relaxed, yet challenging work environment. And we leave plenty of room for having fun with each other!

Eaton

Eaton is a power management company that provides energy-efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. Our expertise in the vehicle group lies in producing quality products and solutions, such as differentials and superchargers for passenger cars and light-duty trucks, transmissions and clutches for commercial and heavy-duty trucks. You can find our products in: daily driving automobiles, racing cars, tow trucks, off-road vehicles, rock crawlers, semi-trucks, pick-up and delivery vehicles, logging trucks, school buses and utility trucks around the world.

Engineering degrees we hire:

- Mechanical
- Materials Science
- Electrical
- Mechanical Engineering Technologies

GE Aviation

GE Aviation is a world-leading provider of commercial, military and business and general aviation jet and turboprop engines and components as well as avionics, electrical power and mechanical systems for aircraft. GE has a global service network to support these offerings. GE and its customers are also working together to unlock new opportunities to grow and deliver more productivity beyond traditional services. GE Aviation is becoming a digital industrial business with its ability to harness large streams of data that are providing incredible insights and in turn, real operational value for customers.

BASF

At BASF, we create chemistry – and have been doing so for 150 years. As the world’s leading chemical company, we combine economic success with environmental protection and social responsibility. Our portfolio ranges from chemicals, plastics, performance products and crop protection products to oil and gas. Our products and solutions contribute to conserving resources, ensuring nutrition and improving quality of life.

Every day our team members work on developing innovative solutions for customers around the world. Our employees’ passion, imagination, and determination are crucial to our success as a market leader. Although we employ over 100,000 people, we dedicate ourselves to mentoring and guiding each individual to finding the right path to their success.

Institute of Food Technologists

Food Science is the discipline in which biology, physical sciences, and engineering are used to study the nature of foods, the causes of their deterioration, and the principles underlying food processing. **Food Technology** is the application of food science to the selection, preservation, processing, packaging, distribution, and use of safe, nutritious, and wholesome food. **A Food Scientist** studies the physical, microbiological, and chemical makeup of food. Depending on their area of specialization, Food Scientists may develop ways to process, preserve, package, or store food. The food and agricultural industry is the second largest economic sector in Michigan, with over \$20 billion in annual revenue (production, processing, manufacturing, distribution, retail). The **Food Industry** needs Scientists like you - Chemists, Microbiologists, Engineers, Nutritionists, Sensory scientists, technical sales and/or marketing. Come join us to learn more about a career in Food Science!

Wacker Chemical

The North American headquarters for Wacker is located in Adrian, MI where we employ nearly 600 team members. The largest division is Wacker Silicones, which is one of the world’s leading silicone manufacturers with silicone-based system solutions with more than 3,000 different products - silicone fluids, rubbers and resins, silanes and pyrogenic silica. Also based in Michigan is our Biosolutions Division, which specializes in customized bio-technical solutions, high-quality fine chemicals and superior polyvinyl acetate solid resins for gum bases.

Participating Organizations

MSU Bioeconomy Institute

Established in 2009, MSU BI is a premier, multidisciplinary center with two locations (Lansing and Holland), combining industrial biotechnology and chemistry capabilities that join government, academia, and industry to develop and de-risk promising early-stage technologies. MSU BI has extensive experience in the development, optimization, scale-up, and production of bio-based processes and specialty chemicals. Leveraging MSU's world-class facilities, our experts utilize a disciplined and effective process for technology de-risking. We apply a unique biotech and chemical de-risking processes to the development of specialty chemicals, novel proteins, Ag Bio materials, biofuels, and food from renewable, rather than fossil, raw materials.

Lear Corporation

Lear Corporation is a global leader in automotive seating & electrical systems. Lear's world-class products are designed, engineered and manufactured by a diverse team of talented employees.

In the area of Automotive Seating, Lear designs, engineers and manufactures vehicle seat systems including performance seating for the most prestigious vehicles. The seat systems combine craftsmanship and safety into a comfortable seat.

Lear is at the forefront of integrating advanced high power technologies critical to powering hybrid and battery-powered vehicles. Lear has established a market-leading position in high voltage battery chargers and electric vehicle supply equipment.

Neogen

Neogen is a Lansing, MI-based company with divisions in food safety, animal safety, life sciences and toxicology. Our food safety division encompasses the development of diagnostic kits for identifying food borne pathogens, spoilage organisms, natural toxins, allergens and other concerns in food products. Our animal safety group develops products for the veterinary and agricultural industries, including pharmaceuticals, vaccines, pesticides, cleaners and more. The division also has a cutting-edge animal genomics laboratory. Neogen also offers products used for the detection of biologically active substances, and also drug detection test kits.

MSU College of Osteopathic Medicine

Have you considered a career as a doctor of osteopathic medicine—a D.O.? There's a world of opportunity behind those two letters!

They can be found in small, rural clinics, in busy urban health centers, performing specialized procedures at major research hospitals or exploring new ways to treat global health threats.

You don't have to wait until you are in college to explore medical school or a future as a physician. The MSU College of Osteopathic Medicine offers programs that help middle school, high school students and MSU undergraduates learn about what it means to go to medical school and the career opportunities for doctors of osteopathic medicine. Our programs give you the chance to meet medical school students and ask them questions about their lives and work.

Michigan Department of Transportation

The Department of Transportation's primary functions are the construction, improvement, and maintenance of the 9,670 miles of the state highway system, and the administration of other state transportation programs. This includes the development and implementation of comprehensive plans, including aeronautics and bus and rail transit, providing professional and technical assistance, and the administration of state and federal funds.

MDOT offers great opportunities during the summer to High School students through its Youth Development & Mentoring Program (YDMP), and to college engineering students through its CO-OP program. Applications for the YDMP are still being accepted for this summer. MDOT also engages high school and middle school students through its TRAC (Transportation and Civil Engineering) Program.

Michigan State Police Forensic Division Laboratory

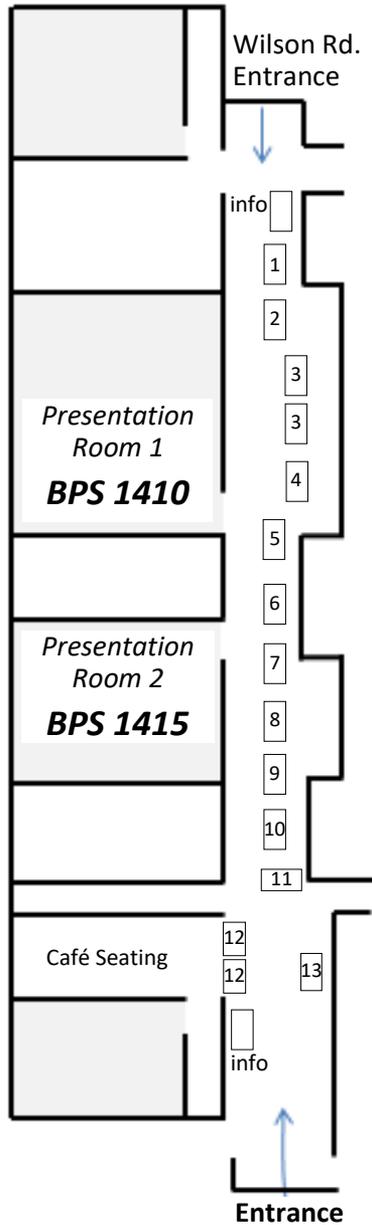
The Michigan State Police Forensic Science Division Lansing Laboratory provides forensic services for law enforcement agencies across the state of Michigan. We have the following Units in the Lansing Lab: Biology, Toxicology, Latent Prints, Firearms / Toolmarks, Microchemistry (Trace Evidence), Questioned Documents, and Controlled Substances. It also provides onsite crime scene response services when needed.

Learn about the services that each unit provides in the lab, and receive advice on appropriate college paths for Forensics careers.

Biomedical and Physical Sciences (BPS) Building

Map of Presenters & Tables

1. Mead & Hunt
2. Institute of Food Technologists
3. Lear
4. GE Aviation
5. MSU College of Orthopedic Medicine
6. Michigan Bioeconomy Institute
7. Michigan Department of Transportation
8. Wacker Chemical
9. Michigan State Police Forensics Science Division
10. MSU College of Veterinary Medicine
11. Neogen
12. BASF Performance Materials and Coatings
13. Eaton



Behind Chemistry
off of Shaw Lane