Take Our Children to Work 2018
Thursday, April 26, 2018
"Service Force: Agents of Positive Change"
Chicago Campus

Artificial Limbs & the Fabulous Foot
R.J. Garrick, PhD
Find out how artificial arms and legs work. Learn about the anatomy of your foot. Get familiar with how to use an analog clinical tool to measure and interpret your plantar pressure. Note: Clean feet and socks required.

Building the Medicine of Tomorrow
Alexandra Kolot, PhD & Maura Walsh
What is bionanotechnology? Find out at the Simpson Querry Institute! Learn about smart biomaterials for tissue repairs and regeneration. Engage in a hands-on activity making cell-encapsulating gels, look into the future of organ printing at a 3D printing station, and visit a Nanomedicine clean room where fingernail-size smart electronic devices are manufactured. You'll also learn how we make small bioactive molecules (peptides) and what equipment we use to study new materials.

Court’s in Session
The Bluhm Legal Clinic
The Bluhm Legal Clinic will engage participants in a mock trial presentation where the participants will contest a fictitious court case. The activity will begin with the students receiving a brief overview of the court and legal system. Participants will receive a scripted case and will be assigned a role as either a judge, attorney, witness, jury, bailiff, or court reporter.

CSI – NUPD
NUPD Officers Kenneth Jones & Lisa Jackson
Get the 411 on 911 with a tour the Northwestern University Police department. There will be an opportunity to try on police equipment and tour squad cars. Discover the different ways the police keep all the University students, faculty, and staff safe!

Hunting Down Diseases
Maryam Kherad Pezhouh & Ritu Nayer
How can you identify the cause, development and consequences of disease? Through pathology! Participants will check out the pathology department and learn what happens to a specimen after arriving in a gross room.

If You Build It... They Will Come
Facilities Management
Tour the Facilities Management shops. Visit the various paint and carpentry shops and learn about careers in the skilled trades!

In Your Genes
Ismam Islam & Kristen Young
Participants will learn about genes, genetic counseling and inheritance. There will be a hands on activity that extracts DNA from strawberries.

Internet Detective
Julie Phelan
Starting with just a few facts from Facebook, our class of detectives will follow the clues to see how much we can learn about someone online – and in real life!

Medicine Just for You!
Joyce Ho & Max Rubinstein
What if medical treatments were designed specifically for you? Learn about "Precision Medicine" and the biggest, most ambitious research project to be done in the US, recruiting 1 million participants! Attendees will learn about Precision Medicine, DNA, and how understanding genetic information can lead to better treatment and
prevention of diseases through interactive games and hands on practice of physical measurements such as height, weight and blood pressure.

**Molecules Through Milkshakes**
**Elizabeth Bartom, PhD**
**How do we figure out the molecular cause of a particular human disease?** To what extent can we apply the same approach to any disease? Participants will talk about how to find the common elements in a series of separate problems, and then build a common solution. Specifically, they'll apply the method to milkshake recipes. Can we create a master milkshake recipe to solve all of your milkshake needs? *Note: this activity involves dairy allergens.*

**Operation “OSCAR”**
**Lenny Wade & Sylvonne Ward**
**Meet Oscar, a robot who teaches medical students about anatomy.** This will be a hands-on interaction with our simulator patient. Participants will take on the role of doctors, directly interacting with Oscar just as a doctor would and working together as a team. See Oscar in action!

**“Hands On” Healing**
**Alison Hayman**
**Discover the amazing and growing field of physical therapy!** Participants will learn what physical therapists do, what a general exam consists of, and the kinds of interventions physical therapists perform on patients.

**Safety Behind Science**
**Lucy Galindo and Luis Samaniego**
**Come for an interactive session with show and tell on the Office of Research Safety assists labs and what they do during emergencies!** Presenters will demonstrate lab personal equipment and how to remove it safely; use glow in the dark powder to show successful or not removal of gloves; learn how to detect hazardous smells in labs, and how to use a respirator.

**Speak Up and Swallow This...**
**Carolyn Chiu and Jonelyn Langenstein**
**We will explore all of the parts of the mouth and throat** that work together during chewing and swallowing, including viewing x-ray videos of swallowing to watch the food and liquid as it goes down. We’ll also explore how to talk without a voice box and experience using an electrolarynx to simulate natural voicing.

**The Art of Meditation**
**Elizabeth Tuckwell**
**Learn mindfulness through art!** Experience a light and fun meditation, followed by a watercolor art lesson!

**The Building Blocks of Video Games**
**Therese Grohman & Liz Rondone**
**Have you ever wanted to create your own video game?** Come to this interactive session to learn why coding is important and where you can find coding and then do some hands-on coding yourself with scratch!

**The Secret Life of a Pet Doctor**
**Emma Liechty**
**The Veterinary Medicine tour** session will consist of a short presentation and 5 interactive stations. Activities at each station will be directed by a veterinary staff member (veterinarian or veterinary technician). The stations will be as follows: microbiology, rodents, rabbits, radiology, and surgery. Activities at each station will include: examination of mouse tissues (microbiology); learning about mice, rats, and rabbits used in research; looking at x-rays and bone models (radiology); and applying a bandage (surgery).

**Securing the University**
**Michael Battles & Jim Giuseffi**
**Discover how to secure the campus** and learn about high security electronic locks. *Note: closed toe shoes required.*

**The Skin You’re In**
**Kassandra Holzem**
**Did you know the skin is your body’s largest organ?** Learn more about your skin, how it works and how to protect it.

**Showtime at Northwestern!**
**Nathan Pierson**
**Learn what it’s like to be on stage at Second City!** Participants will engage in a variety of fun improv and acting exercises. No experience required.