

## Take Our Kids to Work Day 2018 Agenda

Time	Group A	Group B	Group C
8:15 – 8:30 a.m.	<b>Registration</b> (Students will be given name tags with their assigned group <sup>1</sup> )		
8:30 – 8:45 a.m.	Travel	Travel	Travel
8:45 – 9:45 a.m.	<b>Optics: Dissecting an Animal’s Eye</b> WISE – Women In Science and Engineering	<b>Bison Sports: Preparing for ‘Game day’</b> University of Manitoba Bisons	<b>Expedition to a deep sea “black smoker”</b> Chemistry (Science)
9:45 – 10:00 a.m.	Travel	Travel	Travel
10:00 – 11:00 a.m.	<b>Brain Food</b> Human Nutritional Sciences (Agricultural and Food Sciences)	<b>Explore your potential in Recreation Leadership</b> Recreation Services / Kinesiology	<b>FABLab</b> FABrication Lab (Architecture)
11:00 – 11:15 a.m.	No Travel	Travel	Travel
11:15 a.m. – 12:15 p.m.	<b>Brain Food</b> Human Nutritional Sciences (Agricultural and Food Sciences)	<b>Would the Dragon’s invest in your business?</b> CEO (Collegiate Entrepreneurs’ Organization) Student Group (Asper)	<b>When the Earth Shakes ...</b> Civil Engineering (Engineering)
12:15 – 1:15 p.m.	<b>Lunch with Brain Food</b> ( <b>Please note:</b> Group A will be eating lunch during the Brain Food session.)	<b>Lunch at Marshal McLuhan</b> ( <b>Please note:</b> Students in Groups B & C have the option eat lunch with their parents or to join us at Marshall McLuhan for a pizza lunch.)	
1:15 – 1:30 p.m.	Travel	Travel	Travel
1:30 – 2:30 p.m.	<b>FABLab</b> FABrication Lab (Architecture)	<b>The Physics of Paper Airplanes</b> Physics and Astronomy (Science)	<b>What does it take to become a fossil?</b> Paleontology – Geological Sciences (Environment, Earth, and Resources)
2:30 – 2:45 p.m.	Travel	Travel	Travel
2:45 – 3:45 p.m.	<b>Media Lab</b> English, Film & Theatre (Arts)	<b>FABLab</b> FABrication Lab (Architecture)	<b>Physical Plant Tour</b> Physical Plant & Campus Sustainability (Physical Plant)
3:45 – 4:00 p.m.	Travel	Travel	Travel
4:00 – 4:15 p.m.	Pick up	Pick up	Pick up

<sup>1</sup>Students will be assigned to a group on a first come, first served basis, so it is recommended to sign up as soon as possible.

Session descriptions are included below.

**ALL PROGRAMING IS OPTIONAL, STUDENTS MAY SPEND THE DAY WITH JOB SHADOWING THEIR PARENT/GUARDIAN.**

# Take Our Kids to Work Day 2018

## Session Descriptions

### **Bison Sports: Preparing for 'Game day'**

University of Manitoba Bisons

#### **Bison Sports**

Join the team at Bison Sport and see what goes into planning for game day. The session will give the students a chance to meet with coaches and learn about event planning and media requirements for game day.

### **Brain Food**

Human Nutritional Sciences (Agricultural and Food Sciences)

#### **Maureen Cooper, Human Nutritional Sciences**

Brain Food Lunch will facilitate students to prepare a meal, learn about nutrients that may have a physiological effect on brain function, practice healthy mealtime rituals, and learn about the correlation between healthy food and the effect of these factors on mental health and well-being. Students will also learn about different nutrients and components of food that affect our physiology and facilitate healthy brain function. The group will divide into four groups to prepare four healthy recipes with new, interesting ingredients. We will then enjoy the meal together after our hard work in the kitchen and have some fun along the way!

### **Expedition to a deep sea "black smoker"**

Chemistry (Science)

#### **Dr. Joerg Stetefeld, Chemistry**

What we can learn from very old Achaea bacteria and how they adopt to very harsh living conditions.

This hands-on Biochemistry/Structural Biology session would feature 3D structures of S-layer proteins and how we can use their features to cure cancer.

### **Explore your potential in Recreation Leadership**

Recreational Services (Kinesiology and Recreation Management)

#### **Recreational Services**

Explore your potential in recreation leadership with Mini U, Intramurals, Recreation Administration and Fitness Training/Testing.

We will have 4 interactive and informative stations set up in the gym and the students will spend 15 minutes at each one.

### **FABLab**

FABrication Lab (Architecture)

#### **Jason Hare, FABLab**

Join the Faculty of Architecture and experience how collaboration brings design ideas and creative vision to life. You will learn how a degree in Environmental Design will teach you to relate to the built, natural, and human environments and how it can be a pathway to the Master's program in Architecture, City Planning, Interior Design and Landscape Architecture. Using hands-on techniques, you will also explore the world of digital fabrication, model making and construction.

## **Media Lab**

English, Film & Theatre (Arts)

### **Film Studies**

Join the Film Studies folks in the Media Lab! In this session, students will be able to view the effects of dramatic lighting to create different visual moods. In this animated and lively session, audience participation is encouraged! Simple lighting effects, camera work and an audio booth will be used.

## **Optics: Dissecting an Animal's Eye**

WISE – Women In Science and Engineering

### **Fahim, WISE**

Students will learn about the parts of an eye while dissecting an animal's eye. They will also learn about optical sensors while programming an Ozobot to solve a problem.

## **What does it take to become a fossil?**

Paleontology – Geological Sciences (Environment, Earth, and Resources)

### **Dr. Robert Elias, Geological Sciences**

This hands-on Paleontology session would feature the different ways in which ancient organisms are preserved as fossils.

## **When the Earth Shakes ...**

Civil Engineering (Engineering)

### **Dr. Pooneh Maghoul, Civil Engineering**

A look into what happens 'when the earth shakes ...'

- Is it Soup or Soil?
- 'Structures are hip-hop dancers!'

## **Would the Dragon's invest in your business?**

CEO: Collegiate Entrepreneurs' Organization Student Group (Asper)

### **CEO Student Group**

Would the Dragon's invest in your business? Form a team, use your creativity to pick an idea and learn from the University of Manitoba's very own entrepreneurs on how to pitch investors Dragon's Den style!

## **Physical Plant Tour**

Physical Plant Department

### **Physical Plant & Campus Sustainability**

This session will include a short presentation about Physical Plant and Campus Sustainability, followed by a tour of Physical Plant. The tour will include a review of the different shops and the Central Energy Plant that supports over 6 million square feet of campus space. Information will be available on all construction and maintenance trades, Architecture, Engineering, health and Safety, and Caretaking.

## **The Physics of Paper Airplanes**

Physics and Astronomy (Science)

### **Physics and Astronomy**

Explore the forces on an airplane and with the knowledge gained build paper airplanes optimized for speed or for aerobatics.