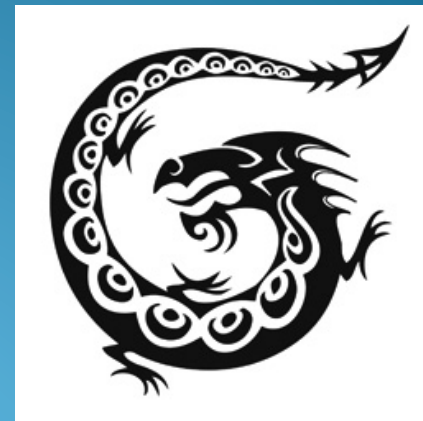
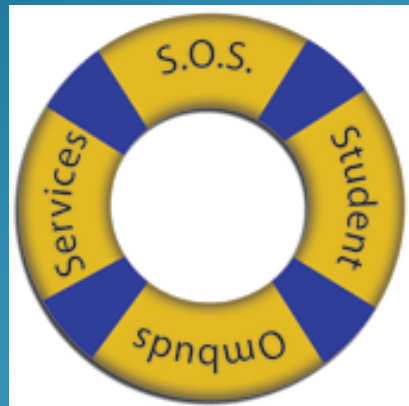


# Research & Volunteer Opportunities

By: Erika Soroka and Sepideh Mohajeri  
Wednesday September 25<sup>th</sup>, 2013



# NO NEED TO TAKE NOTES!!

- Slides will be posted on the SOS website within a week
- Please listen and feel free to ask questions in between 😊

[bethune.yorku.ca](http://bethune.yorku.ca)

# WHO ARE WE???

- **Erika Soroka**

- 3<sup>rd</sup> year Biology & Psychology student
- Peer Advisor & Peer Mentor
- Research Assistant

- **Sepideh Mohajeri**

- 3<sup>rd</sup> year Kinesiology student
- Peer Advisor & Peer Mentor
- Independent Study

# Student Ombuds Services



- Peer Advising
- Peer Mentoring
- Peer Tutoring
- Peer-Assisted Study Sessions
- Class Representatives





# Agenda

- Job Opportunities
- Research Opportunities
- Get involved in what interests you!!



# JOB OPPORTUNITIES

# CAREER CENTRE

Connecting students  
with opportunities.



# ONLINE JOB POSTING SYSTEM

- Search for jobs (full or part time), internship, summer and volunteer opportunities
- Register for career centre workshops, events, and get email notifications regarding upcoming events
- <http://www.yorku.ca/careers/onlinesystem/>



# Career Fair Fall 2013

Thursday, Sept. 26, 2013 10am - 3pm  
Technology Enhanced Learning (TEL) Building

The Career Fair is a great way for students to meet a variety of employers in an exhibition-like setting to learn more about their companies and employment opportunities. Employers exhibiting at this year's fair will be recruiting York students and new grads for the following types of positions:

- full-time jobs
- part-time jobs
- internships
- summer jobs

Career • Centre

[yorku.ca/careers/fair](http://yorku.ca/careers/fair)

YORK  
UNIVERSITÉ  
UNIVERSITY

# WORK/STUDY PROGRAM

- Broad range of jobs available
- September - April for full time students
- Demonstrate financial need
  - Student Financial Profile (SFP) at:  
<http://sfs.yorku.ca/services/sfp/>



# CLAY (College Life at York) PROGRAM

- Better student experience within your college
  - Bethune, Stong etc.
- Possible Clay Positions:
  - Clubs and Program Support Assistant
  - Academic Resource Adviser
  - Productions Technical Manager/Technical Director
  - Conference and Symposia Assistant
  - Alumni Affairs Developer
- September – April; some in the summer

<http://sfs.yorku.ca/employment/clay/>



# YES (York Engaged Students) PROGRAM

- Similar to CLAY program, but not college specific
  - Peer Mentoring
  - Ambassadorship
  - Advising
- Establish new programs or provide services to York students

<http://sfs.yorku.ca/employment/yes/>



# Can I have all of these at once?

- A Work/Study position cannot be held concurrently with other Work/Study, RAY, CLAY or YES positions

“You can have it all. Just not all at once.”

- Oprah Winfrey

# RESEARCH OPPORTUNITIES



# RESEARCH AT YORK (RAY) PROGRAM

- Get introduced to the research environment
  - Paired with a professor and work on a project
  - <http://sfs.yorku.ca/employment/ray/>
- Demonstrate financial need
  - <http://sfs.yorku.ca/services/sfp/>
- Minimum of \$15.00 per hour, but max ~ 15h work week.



**NSERC  
CRSNG**

- Natural Sciences and Engineering Research Council of Canada
- NSERC is a federal academic granting agency
- Offers summer research assistant scholarships for undergraduate students
  - NSERC - USRA



# NSERC REQUIREMENTS

- Canadian citizen/permanent resident
- Enrolled in a bachelor's degree program at an eligible university
- Completed all the course requirements of at least the first year of university study
- Minimum B average (6.0 / 9.0 on York's GPA Scale)
- [http://www.nserc-crsng.gc.ca/students-etudiants/ug-pc/usra-brpc\\_eng.asp](http://www.nserc-crsng.gc.ca/students-etudiants/ug-pc/usra-brpc_eng.asp)

# NSERC INFORMATION

- Apply for Undergraduate Student Research Award (USRA)
- Application deadlines are internal to universities
  - usually near the end of January
- Pays \$4500 over 16 weeks of research + 25% supplement from university
- You can do an NSERC at any University, don't feel limited to York
- [http://www.nserc-crsng.gc.ca/students-etudiants/ug-pc/usra-brpc\\_eng.asp](http://www.nserc-crsng.gc.ca/students-etudiants/ug-pc/usra-brpc_eng.asp)



# HOW TO APPROACH PROFESSORS

- Start looking into Professors' research as soon as possible
- Take an interest in projects that truly interest/ fascinate you
- Approach the Professors through e-mail, office hours or during class
- Be courteous and prepared to market yourself
- Show the professor that you really have looked into the type of research he/she does (ie. read their recent papers!)

# SAMPLE EMAIL

- Dear/Hello/Good morning Professor \_\_\_\_
- My name is \_\_\_\_ and I am a \_\_\_\_ student interested in...
- I was wondering if there are opportunities in your lab for...
- I have attached my updated transcript and resume...
- Sincerely\_\_\_\_

# LINKS TO FACULTY PROFILES

- Physics & Astronomy

[http://www.physics.yorku.ca/index.php?option=com\\_content&view=article&id=69&Itemid=73](http://www.physics.yorku.ca/index.php?option=com_content&view=article&id=69&Itemid=73)

- Biology

<http://science.yorku.ca/View-users-list/Biology.html?search=o>

- Kinesiology

<http://www.yorku.ca/gradkahs/faculty.html>

- Chemistry

<http://www.yorku.ca/gradchem/faculty/index.html>

# Research Practicum/Project

- Usually zero credits courses
- Taken part time while taking courses
- Must make arrangements with a professor before enrolling
- Evaluation on a pass/fail basis
- Submit personal essay/report on what you did



# Independent Study/Honours Thesis

- Biology, Kinesiology and Psychology Departments
- Enrol as a course
- Arrange project details with a Professor
- Grading system is determined beforehand with professor
  - Usually on Literature review, thesis paper, defense.



# VOLUNTEERING OPPORTUNITIES

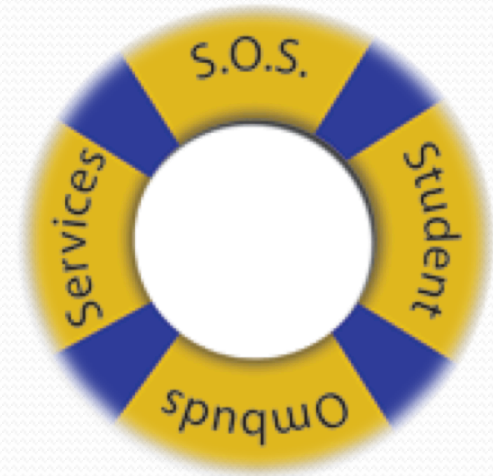


# VOLUNTEERING WITH BETHUNE

- Many ways to get involved with your college!
  - Peer Tutoring Program
  - Peer Mentoring
  - Class Representatives
  - PASS leaders
  - SOS Academic Advisors
- Student Government (BCC, BAC)

<http://http://sos.info.yorku.ca/>

<http://http://bethune.yorku.ca/>



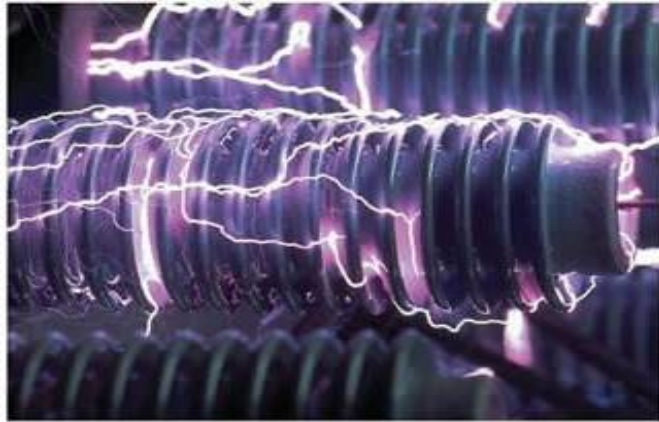
# VOLUNTEER OPPORTUNITIES

- Clubs on campus: YU Connect
  - <http://yuconnect.yorku.ca/>
- York University Biology Society (YUBS)
- Chemistry Society at York
  - <http://www.yorku.ca/csy>
- Biochemistry Association at York:
  - <http://www.yorku.ca/bchm>



# OPPORTUNITIES BY AREAS OF INTEREST

# PHYSICS & ASTRONOMY



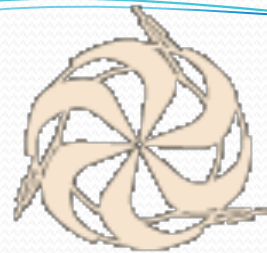
- NSERC
- TRIUMF
- Physics/Astronomy Project



- The Observatory
- Astronomy Club
- Peer Tutoring

# POSSIBLE PHYSICS NSERC PROJECTS

- 1. Auditory biophysics ([Professor Christopher Bergevin](#))
- 2. Precision laser spectroscopy & ultracold atoms. ([Professor William van Wijngaarden](#))
- 3. Precision atomic physics measurements to determine the value of the fine structure constant and the radius of the proton. ([Professor Eric Hessels](#))
- 4. Development and construction of the positron accumulator at the McMaster Nuclear Reactor. ([Professor Cody Storry](#))
- 5. Spectroscopic studies and modelling of accretion disks around black holes. ([Professor Patrick Hall](#))
- 6. Antiproton beam monitor. ([Professor Scott Menary](#))



# TRIUMF

- Canada's National Laboratory for Particle and Nuclear Physics
- Located in Vancouver, BC
  - Nuclear Medicine
  - Particle Physics
  - Accelerator Physics
  - Theoretical Physics
  - Molecular & Materials Science
  - Rare-Isotope Beams
  - Detector Development

<http://www.triumf.ca/home/about-triumf/about-us>

# TRIUMF CONTINUED...

- TRIUMF Summer Research Awards for Canadian Undergraduate Students
  - Application deadline: Early-Mid January
  
- More information at:  
<http://www.triumf.ca/home/employment-opportunities/undergraduate-students/awards-scholarships>

# PHYSICS/ASTRONOMY PROJECT

- Physics & Astronomy Department offers PHYS 4310
- worth 3 credits – Fall or Winter
- Enrol in final year of program
- Arrange project details with a professor

<https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/6/wo/qafntbEEyFvO2lETK7QWEM/2.1.10.8.3.44.0.5>



# THE OBSERVATORY

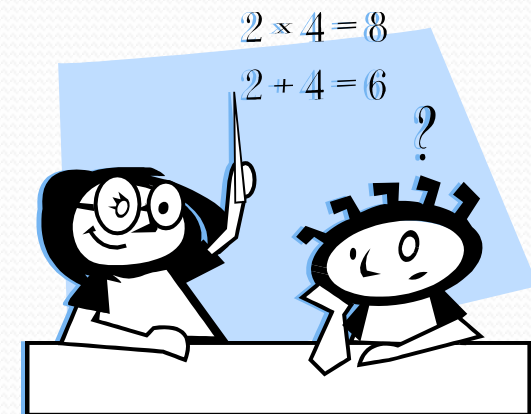
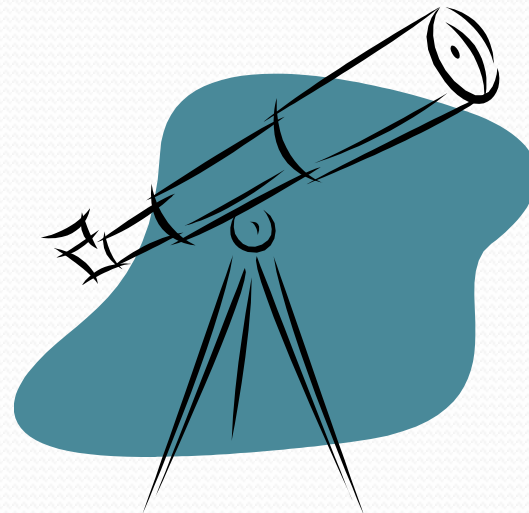
- Work/study positions for research in variable stars and stellar evolution
- Volunteer positions to host public viewing nights
- Contact Professor Paul Delaney, the observatory coordinator
  - [observe@yorku.ca](mailto:observe@yorku.ca)
  - [www.physics.yorku.ca/observatory](http://www.physics.yorku.ca/observatory)

# Volunteering Opportunities:

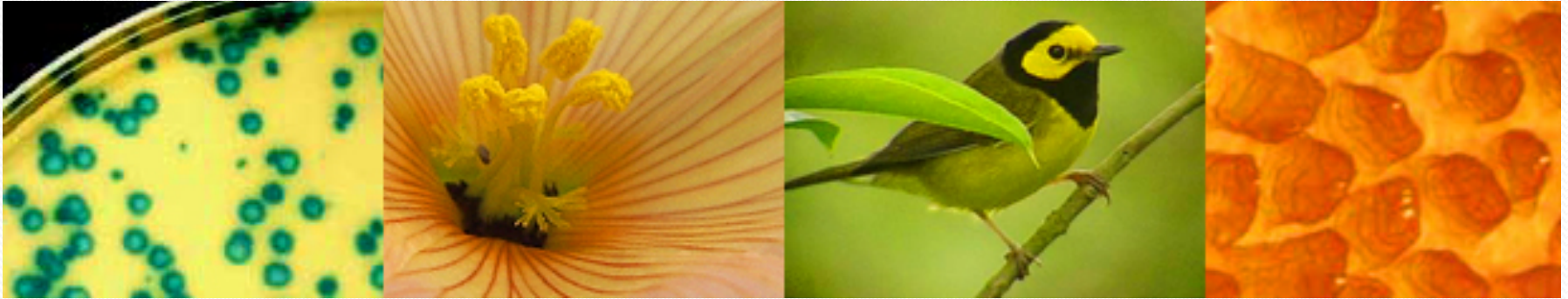
- Peer Tutoring: PHYS 1xxx
  - Applications will be available for winter courses

- Astronomy club:

- <http://www.yorku.ca/yuac/>



# BIO/PSYCH OPPORTUNITIES



- Center for Vision Research at York
- SickKids Summer Student Research Program
- U of T Department of Medical Biophysics Summer Research program
- RAY and Work/study
- Practicum
- Hospital Volunteering

# VISION RESEARCH AT YORK

- York has a vibrant research center in vision and brain research
- [www.cvr.yorku.ca](http://www.cvr.yorku.ca)
- Some research areas include:
  - Human Visual Performance
  - Visual Human-Computer Interaction, Graphics and Virtual Reality
  - Visual Psychophysics
  - Eye Movements and Hand-Eye Coordination
  - Computational Modeling and Computer Vision
  - Electrophysiology
  - Clinical and Developmental Studies
  - Brain Imaging

# SICKKIDS SUMMMER PROGRAM

- <http://www.sickkids.ca/Research/StudentandFellowResources/The-SickKids-Summer-Research-Program/>
- Accept students in years 1 through 4
- Jobs usually posted in mid December
- **APPLY EARLY!!!**



# SICKKIDS CONTINUED...

- Sample jobs from summer 2009 posted below:

<u>Investigator</u>	<u>Title of Project</u>	<u>Research Program</u>
<u><a href="#">Dr. Yigal Dror</a></u>	The role of SBDS in hematopoiesis	Cell Biology
<u><a href="#">Dr. Cecil Hahn</a></u>	Clinical research on the utility of continuous EEG monitoring for seizure identification among critically ill children in the intensive care unit.	Neuroscience & Mental Health, Neurology
<u><a href="#">Dr. Clifford Lingwood</a></u>	Regulation of glycosphingolipid biosynthesis by use of exogenous alternative substrates.	Molecular Structure & Function
<u><a href="#">Dr. Brian H. Robinson</a></u>	Isolation of genes responsible for mitochondrial defects using single chromosome transfer.	Genetics & Genome Biology

U of T: Department of Medical



## Biophysics Summer Research Program

- Open to all university students in their second and third years of undergraduate studies.
- Program runs from second week of May to the end of August
- Students required to present their work as a poster at the Summer Student Poster Day in late Aug.
- Application deadline: Early Feb
- **Minimum** requirements:
  - Medical physics stream: B+
  - Biology: A-

# OTHER RESEARCH OPPORTUNITIES OUTSIDE OF YORK

- IMS Summer Student Program:
  - <http://www.ims.utoronto.ca/programs/summer.htm>
- RTC Summer Research Program for Undergraduates @ The Lunenfeld (Mount Sinai Hospital)
  - <http://research.lunenfeld.ca/rtc/?page=Summer%20Students>



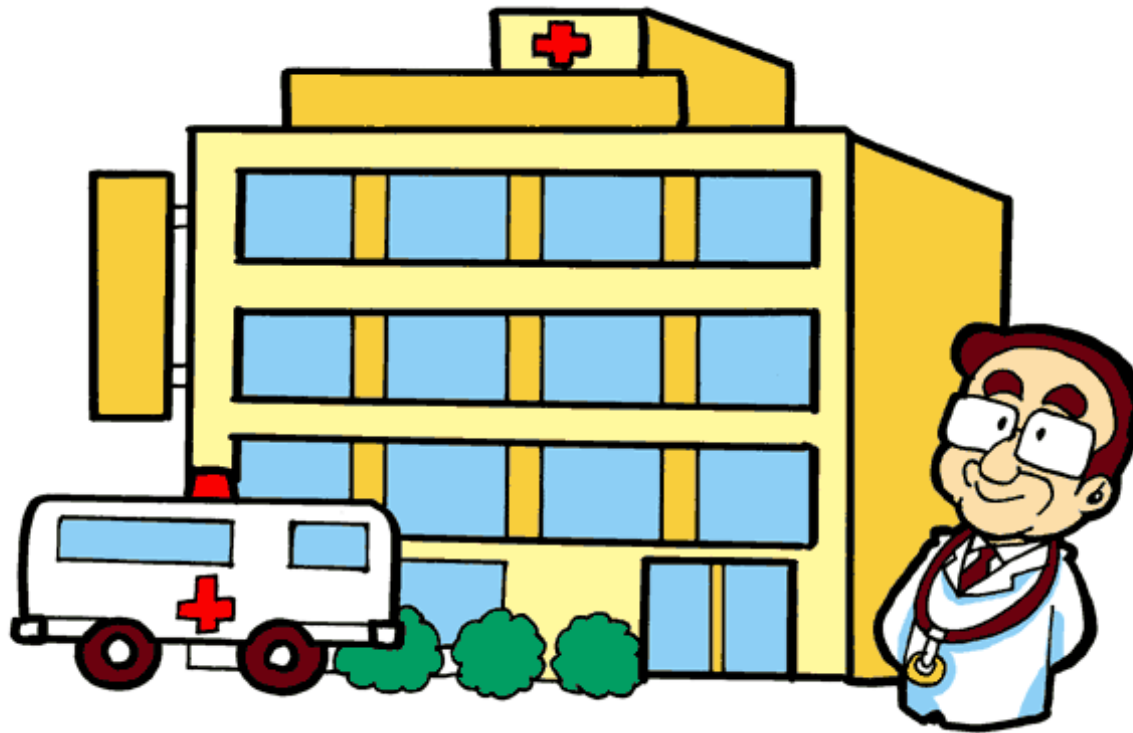
# RESEARCH PRACTICUM

- Zero credit course
- BIOL 1601 (Fall) or BIOL 1602 (Winter)
- Student must make arrangements with a faculty member before enrolling in this course
- Submit personal essay/report on what you did
- Good chance to get “your foot in the door”

# VOLUNTEERING

- Hospitals
- Rehab clinics
- Retirement Homes
- Charity Organizations
- York Organizations
- Check for opportunities on the Career Centre's online posting system: <http://www.yorku.ca/careers/onlinesystem/>





**hospital**

hospital



# BEFORE YOU START VOLUNTEERING...

- Make sure you're up to date with all your immunizations, see your family doctor
- **GET YOUR TB SHOT ASAP!!!**



# Mackenzie Health Hospital



- Orientation in August for the school year program
  - April/May for the summer program
- Need application, personal statement, references

[http://mackenziehealth.ca/vol\\_communityres.php](http://mackenziehealth.ca/vol_communityres.php)



- Visit the volunteer services department on the second level
- Be prepared to talk briefly yourself and the reasons why you would like to volunteer
- Bring a resume and one reference letter
- Once accepted as a volunteer, you will be required to attend a 2-hour orientation session

<http://www.mountsinai.on.ca/patients/volunteer/volunteer-services>



- Humber River Hospital is a three site facility located in the northwest end of Toronto
  - Keele Street Site
  - Church Street Site
  - Finch Street Site
- Pick up a Volunteer application form available from the Volunteer Service Office or print one from the HR website:  
<http://www.hrh.ca/BecomeaHumberRiverVolunteer>
- Requires 2 reference letters



- Application form available online
- Require 2 reference letters and completion of health clearance form
- For more information visit :  
<http://www.trilliumhealthcentre.org/volunteers/opportunities.php>



# CREDIT VALLEY HOSPITAL



C R E D I T • V A L L E Y

- Must attend information session to pick up student application packages
- Contact 905-813-1585 for upcoming dates and times
- For more information visit:

<http://www.cvh.on.ca/admin/volunteers.php>

# KINESIOLOGY AND HEALTH SCIENCE OPPORTUNITIES



- Muscle Health Research Centre
- Physiotherapy/Chiropractic clinics
  - Nursing Homes

# Muscle Health Research Centre

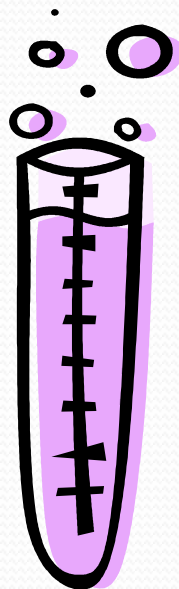
- Research focused on the importance of skeletal muscle on overall health and well being
  - Effects of exercise on:
    - Diabetes
    - Cancer
    - Aging
    - Cardiovascular Diseases (CVD)
- <http://www.yorku.ca/mhrc/>



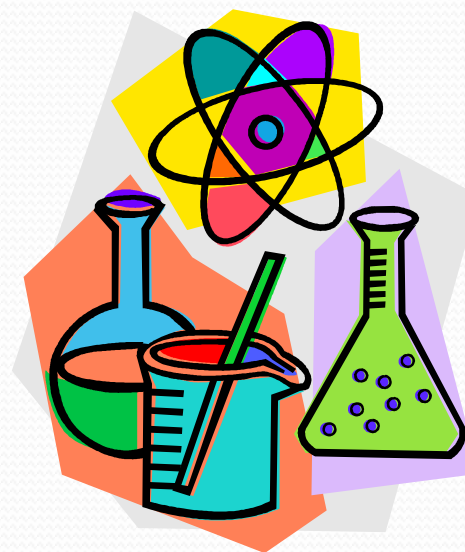
# PHYSIOTHERAPY/CHIROPRACTIC CLINICS

- Contact nearby clinics for opportunities
- Visit in person and drop off your resume
- York Lanes Chiropractic Clinic-(416) -736 -5414
- Athletic Therapy certificate program
  - <http://www.yorku.ca/atherapy/>
- Hospitals

# CHEMISTRY



- Research Practicum
- Pharmacy Opportunities
- Sanofi Pasteur & Pfizer





# RESEARCH PRACTICUM

- Research Practicum in Chemistry
- SC/CHEM 2200 0.00 Research Experience
- Similar to other research practicum courses

# PHARMACY OPPORTUNITIES



- Shoppers Drug Mart
- Wal-Mart
- Zellers
- Rexall Pharmacies

The logo for Sanofi Pasteur, featuring the words "sanofi" and "pasteur" in a blue, lowercase, sans-serif font, with a thin blue line underneath.

The vaccines division of sanofi-aventis Group



- Pharmaceutical companies
- Sanofi Pasteur - Mission statement: Protecting and improving human health worldwide by offering the broadest range of vaccines
- Pfizer - Mission statement: Helping Canadians live healthy and balanced lives by discovering and developing innovative medicines

<http://www.sanofipasteur.ca/>

[www.pfizer.ca](http://www.pfizer.ca)



# IN SUMMARY

- There are plenty of opportunities available
- Use the time now to get your resume, cover letters and reference letters ready
- Start searching for projects that interest you
- Approach professors early to see if they have positions available
- Get good grades!



# THANKS FOR LISTENING!

Contact Information:

Erika Soroka  
[erika11@yorku.ca](mailto:erika11@yorku.ca)

Sepideh Mohajeri  
[sm93@yorku.ca](mailto:sm93@yorku.ca)



# UPCOMING SEMINAR

How to get into Physio/Occupational  
Therapy

Wed, Oct 2<sup>nd</sup>, 2013

LSB 103, 5:30 PM



Learn



Be positive



Be open

The Six Actions  
That Make Us  
Happy At Work



Participate



Love



Find Meaning