Tentative Projects 2017-18

1. DNA threats
2. Green chemistry
3. Make an ecosystem
4. Watershed biodiversity
5. Forensic science: *Who is your daddy?*
6. Phytoremediation
7. Bacteria: The powerhouse of human development?
8. Nanomaterials: Can small scale chemistry solve large scale problems?
9. Microbial electrochemical cells: Turning wastewater into energy and fuel
10. Other ideas?

**Complete experience:**
- Hands-on activity to design
- Poster to build
- Video experience
- Handout for kids
- ScienceRendezVous opportunity!!

**Pair up with one of our mentors!**

- Dr. Jennifer Scott
  Inorganic Chemistry
- Dr. Barbara Zeeb
  Environmental Sciences and Biotechnology
- Dr. Kela Weber
  Environmental Engineering
- Dr. Emily Corcoran
  Nuclear Engineering

To seek more information or to apply for this Alternative Practicum Opportunity, please submit a cover letter stating why this position is of interest to you and a recent resume to the community.outreach@queensu.ca
Phytotechnology

Phytotechnology = the use of plants & plant-based mechanisms to solve environmental problems. The phytotechnologies laboratory at RMC specializes in applying plant-based to remediate contaminated sites. Using vascular plants, contaminants found in soil and water can be extracted, degraded, immobilized, and/or volatized.

We are seeking a Practicum Student to work in collaboration with Dr. Barb Zeeb (zeeb-b@rmc.ca) and her graduate students to:

- Research and design an innovative & interactive activity that we can use at this year’s Science Rendezvous Kingston
- Create a poster depicting the many facets of phytotechnologies
- Plan and produce a short video showcasing the work of current graduate students
- Create an educational handout for kids and adults alike