

Post-Doctoral Fellow Position
Department of Chemistry at Queen's University

Dr. Philip Jessop
Department of Chemistry, Queen's University
&
Dr. Michael Cunningham
Department of Chemical Engineering, Queen's University

1 year position – October 2017 to September 2018

\$40,000 CAD/year
(Renewable for a 2nd year, as long as funding is available
and performance is satisfactory)

Interested applicants, please submit your Cover Letter, CV and names and contact details of 3 references to

Ms. Dawn Free (dawn.free@queensu.ca) by September 25, 2017.

Please have "CO₂-Switchable Hydrogels" in the subject line.

Profs. Jessop & Cunningham are seeking a Post-Doctoral Fellow to work on the NSERC project, CO₂-Triggered Agents for Forward Osmosis. The fellow will be responsible for the development of polymeric CO₂-switchable draw agents for the purification of wastewater. The fellow will also provide in-the-lab supervision and guidance of the graduate and undergraduate students involved with this project in the Jessop & Cunningham laboratories and undertake other duties and responsibilities as assigned in support of the project and research groups.

Required Qualifications:

- PhD
- Significant Knowledge in organic or physical organic chemistry.
- Experience in organic or polymer synthesis and spectroscopy (NMR, IR) is required.
- Experience in physical organic chemistry methods (kinetics, calorimetry, phase behaviour) is desired.
- Chemical engineers having similar experience will also be considered, especially if they possess experience in gas-liquid mass transfer.
- Excellent interpersonal and communications skills (both verbal and written)
- Superior organization and time-management skills.
- Excellent judgment to provide clear and accurate information with a high degree of diplomacy, discretion and confidentiality.
- Ability to anticipate, analyze and solve problems and recommend solutions.
- Strict attention to detail and accuracy with an appreciation for the implications of errors.
- Initiative, self-motivation and resourcefulness to work both independently and collaboratively.