



## Research Collaboration Opportunity

### **BROAD CAPTURE AND REMOVAL OF CONTAMINANTS FROM INDUSTRIAL WASTEWATER**

#### Company: Carbonet Nanotechnologies

#### Description

We have developed a technology allowing for the rapid, broad, and efficient removal of contaminants from contaminated fresh water. Addition of our “nano-nets” to industrial wastewater results in the rapid aggregation of suspended contaminants. Our technology is proprietary, fast acting, and does not require expensive additives, clogged filtration systems or electrochemical processing. Once purified through our proprietary process, purified water is suitable for re-entry into the water stream. The cost of our technique is comparable to current water treatment methods for on-site suspended solid removal.

#### Research stage

We have applied our technology to the non-trivial separation of dispersed hydrocarbons and solid contaminants, removal of textile dyes, suspended particulate removal, as well as dissolved metal remediation from contaminated waters. Our current research stage is focused on scalability and optimization for different forms of contaminated water.

#### Types of collaborations

Although we have applied our technique to wastewater that has been tainted by crude oil, we are currently seeking additional industrial wastewater samples to test the broad range capabilities of this technology. We are especially interested in applying our technology to waters overwhelmingly contaminated with the following substances; i) hydrocarbons ii) fine particulates (iron filings, silica, clay) iii) dyes, iv) microbial contamination. We are actively seeking partners to establish this exciting technology as an alternative water remediation technique.

#### IP

We are in the process of protecting our technology through the University-Industry Liaison Office (UILO) at the University of British Columbia.

#### Contact

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