



## **MIE498H1: Research Thesis 2023-2024**

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<b>Number of Positions</b>	3
<b>Open to</b>	Undergraduate Mechanical Engineering Students
<b>Term Offered</b>	Winter (S)
<b>Research Area</b>	Materials
<b>Research Topic</b>	Omniphobic spray coating

### **Project Description**

The student(s) will develop a sprayable omniphobic coating that does not require a heated cure, using a coating formulation developed recently in the DREAM Lab. Various spray parameters (type of spray gun, pressure, stand-off distance, etc.) will be investigated, as well as the addition of a catalyst so that heated curing is not required. The spray will be verified on a number of different commercial substrates, such as glass, plastics, metals, and electrical components.

### **Additional Information**

N/A

### **Application Instructions**

Please email Dr. Golovin at [Kevin.golovin@utoronto.ca](mailto:Kevin.golovin@utoronto.ca) and mention interest in this specific project in the email.