

Postdoctoral Research Position in Paper-Based Weather  
Resistant Membranes for Building Applications  
University of British Columbia

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Posted May 6, 2020, set to expire Sep. 5, 2020

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| <b>Job Title</b>            | Postdoctoral Research Position in Paper-Based Weather Resistant Membranes for Building Applications                                                                                                                                                          |
| <b>Department</b>           | School of Engineering<br><a href="https://engineering.ok.ubc.ca/about/contact/kevin-golovin/">https://engineering.ok.ubc.ca/about/contact/kevin-golovin/</a>                                                                                                 |
| <b>Institution</b>          | University of British Columbia<br>Kelowna, British Columbia                                                                                                                                                                                                  |
| <b>Date Posted</b>          | May 6, 2020                                                                                                                                                                                                                                                  |
| <b>Application Deadline</b> | Open until filled                                                                                                                                                                                                                                            |
| <b>Position Start Date</b>  | Available Immediately                                                                                                                                                                                                                                        |
| <b>Job Categories</b>       | Post-Doc                                                                                                                                                                                                                                                     |
| <b>Academic Field(s)</b>    | Sustainable Engineering<br>Pulp & Paper Science<br>Polymer Science<br>Mechanical Engineering<br>Material/Metallurgy<br>Manufacturing & Quality Engineering<br>Ecological and Environmental<br>Civil Engineering<br>Chemical/Petroleum<br>Engineering - Other |
| <b>Job Website</b>          | <a href="https://apsc-golovin.sites.olt.ubc.ca/pdf-bioalliance/">https://apsc-golovin.sites.olt.ubc.ca/pdf-bioalliance/</a>                                                                                                                                  |
| <b>Apply By Email</b>       | <a href="mailto:kevin.golovin@ubc.ca">kevin.golovin@ubc.ca</a> , <a href="mailto:rafik.allem@fpinnovations.ca">rafik.allem@fpinnovations.ca</a>                                                                                                              |

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### **Job Description**

#### **RESPONSIBILITIES:**

This position is part of a larger collaborative research project aimed at developing a durable and waterproof building envelope with a better sustainability performance than existing petroleum-based products. The paper-based membrane envisioned here combines a water repellant surface layer or coating with a basepaper that serves multiple purposes: it provides strength and integrity to the product and may also contribute to its barrier properties, in particular air resistance. Research carried out by the successful candidate will focus on developing a basepaper that is tailored for this very demanding application. This will involve optimizing furnish, refining strategy and the use of chemical additives. The impact of adding a calendering or pre-coating step may also be considered. Properties to be optimized include those of the basesheet as well as those of the final product (in particular, air and water resistance and tear strength). The successful candidate will interact frequently with a second postdoctoral scholar based in Prof. Kevin Golovin's group at UBC who will be working on the development of a suitable barrier layer for the targeted application. The two researchers will test various combinations of basepaper and barrier technology and identify the most promising approach to meet end-use requirements. They will also prepare a plan for scale-up.

#### **CONDITIONS AND APPLICATION PROCEDURE**

Candidates must hold a Ph.D. degree in one of the following disciplines: Chemical or Mechanical Engineering, Paper Science or Materials Science. They should also have a proven track record of excellence in research. The position is open immediately and offered initially for a period of one year. The successful candidate will be employed by the University of British Columbia but will be based at FPInnovations' laboratory in Pointe-Claire, Québec with a small portion of his or her time spent at UBC.

### **EEO/AA Policy**

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.

All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority.

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**Contact Information**

Please reference Academickeys in your cover letter when  
applying for or inquiring about this job announcement.

**Contact** Prof. Kevin Golovin  
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University of British Columbia  
1137 Alumni Ave  
School of Engineering  
Kelowna, BC  
Canada

**Phone Number** 2508079774

**Contact E-mail** kevin.golovin@ubc.ca