



THE UNIVERSITY OF BRITISH COLUMBIA

Department of Materials Engineering

Assistant Professor (Sustainable Solutions for Materials Production and Manufacturing)

The Department of Materials Engineering at the University of British Columbia (Vancouver campus) seeks qualified applicants for a tenure-track position at the rank of Assistant Professor (in exceptional cases a tenure-track, or tenured, appointment at the rank of Associate Professor may be considered). This position is part of the University of British Columbia's President's Academic Excellence Initiative (PAEI) within the Faculty of Applied Science. This cluster hire within the faculty aims to build a community of scholars ready to challenge and create fresh ways of generating and applying impactful knowledge in areas related to the theme of this cluster: Revolution in the Cycle: Transforming the Product Lifecycle for Global Good. The anticipated start date of the position is July 1, 2023, or as soon as possible thereafter.

Over its long history, the Department of Materials Engineering at UBC (referred to as the Department) has distinguished itself with excellence in research, teaching and service in the field of Materials Engineering. The Department has a strong record of collaborative work with industry and promotes interdisciplinary research. In the context of this hire, the Department of Materials Engineering seeks an Assistant Professor with a focus on reducing waste and energy consumption in the production of materials and their processing into final products. This position would have the aim of developing solutions that span the spectrum from materials extraction to end-product design/manufacture and include extraction from recycled materials and waste streams. The overarching goal of this position will be to work toward minimizing the environmental impact of materials through their entire life cycle. The position will bring experience in materials processing, life cycle analysis and systems level thinking and apply them toward the development of the circular economy. Engagement in policy and economic discussions underling current global decision making, from a position of depth in understanding materials production and manufacturing, would be an asset.

Applicants for this position should have demonstrated evidence or possess clear potential to excel in research and teaching within the topic area described above. In addition, applicants must be able to demonstrate how their research seeks firstly, to advance methodological innovation through their approach to collaborative working between academic disciplines and / or with non-academic partners, and secondly, to impact contemporary societal challenges. Strong applicants are likely to be comfortable working with and learning from non-specialists in their field.

The successful candidate will be expected to develop an independent, internationally recognized research program, and seek funding, both as an individual and in collaboration with others, from Government and industrial sources. The position will involve teaching at the undergraduate and graduate levels, the supervision of graduate students at the Masters and Doctoral levels and providing service to the University and the broader community. The successful candidate must embrace productive relationships across cultural differences and develop an equitable, diverse and inclusive learning and research approach that promotes a respectful environment for all students, staff and faculty.

A Ph.D. degree in Materials Engineering or a closely related field is required and the successful candidate will be expected to register as a member of Engineers & Geoscientists British Columbia. Further information on the Department is available at mtrl.ubc.ca and information on the Faculty of Applied Science is available at <https://apsc.ubc.ca/prospective-faculty>.

Applications must be submitted online at <https://ubc.wd10.myworkdayjobs.com/ubcfacultyjobs>. Applicants should submit a letter stating their suitability for the position, which will include:

- Brief overviews of:
 - Relevant experience and achievements
 - Your research goals, including how your research would contribute to Sustainable Solutions for Materials Production and Manufacturing (max. 2 pages)
 - Your approach to teaching (max. 1 page)
 - How your research and teaching would contribute to an equitable, diverse and inclusive academic environment (max. 1 page)
- A 100-word summary, suitable for a non-specialist audience, outlining the nature and purpose of your research
- Your current curriculum vitae
- Names and contact information (including email addresses) of four referees

The initial closing date for applications is September 6th, 2022 but applications will be accepted until a suitable candidate is found.

The University of British Columbia hires on the basis of merit, assessed in areas of scholarly activity, teaching and service, and is strongly committed to equity and diversity within its community.

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 of Canada will be given priority.

UBC welcomes and encourages applications from people with disabilities. Accommodations are available on request for all candidates taking part in all aspects of the selection process. To confidentially request accommodations, please contact the Department Head, Daan Maijer at daan.maijer@ubc.ca.