

## **Postdoctoral Research Associate: Decision analysis and the environmental impacts of shipping, University of British Columbia and Clear Seas Centre for Responsible Marine Shipping**

Length of term: Full-time, one-year, renewable for up to two additional years based on performance

Annual salary range: Up to \$CAD 55,000/yr [and comprehensive benefits package](#), commensurate with qualifications

Supervisors: [Dr. Amanda Giang](#) (Institute for Resources, Environment and Sustainability and Department of Mechanical Engineering), [Dr. Terre Satterfield](#) (Institute for Resources, Environment and Sustainability), and collaborators at [Clear Seas Centre for Responsible Marine Shipping](#)

Location: University of British Columbia, Vancouver, BC. Remote work is possible though some in-person work is required as part of the position.

Position Description: We are seeking applicants for a **Postdoctoral Research Associate in decision analysis and environmental impacts of shipping** at the Institute for Resources, Environment and Sustainability at the University of British Columbia, Vancouver campus, situated on the traditional, ancestral, and unceded territories of the Musqueam (xʷməθkʷəy̓əm) People. The goal of this position is to develop a systematic environmental impact assessment framework that will help inform technology development and deployment decisions for marine shipping. By applying this framework to real-world decision-making case studies, we aim to identify technology options that have the potential to reduce impacts from shipping across the full suite of environmental performance areas, considering synergies and trade-offs between areas. These environmental performance areas include, but are not limited to: climate, water quality, air quality, biodiversity, noise, and socio-cultural impacts mediated through the environment. Drs. Giang and Satterfield form a complementary interdisciplinary mentorship team, with diverse expertise in social-ecological systems, environmental impact assessment, and technology policy. Clear Seas will provide mentorship in knowledge mobilization and engagement with partners. This position will provide an opportunity to conduct applied interdisciplinary research, in partnership with civil society and government, that has the potential to directly inform decisions on the future of shipping in Canada.

### Preferred Qualifications and Experience

- Hold (or expect to hold by time of appointment) a PhD in environmental sciences, environmental social sciences, marine sciences, decision sciences with environmental applications, or related disciplines/interdisciplinary studies
- Background in one (or more) of the following research areas: environmental assessment, marine systems, social-ecological systems, decision-support systems, multi-criteria decision-making, shipping, technology assessment. We do not expect applicants to have experience with all of these areas, and are looking for applicants with a strong background in one (or more), interested in developing experience in the others.
- Strong training in quantitative methods and some experience in qualitative methods with respect to the development of indicators and metrics, e.g., surveys, interviews, focus

groups, systematic review, meta-analysis

- Experience synthesizing across different forms of evidence and knowledge, in an assessment or evaluation context
- Demonstrated ability to collaborate in interdisciplinary teams, with experience in partnered research with civil society, government, and rightsholders and stakeholders considered an asset
- Strong organizational, project management, oral and written communication skills

If interested, please submit the following in a single PDF file to Prof. Amanda Giang at [amanda.giang@ubc.ca](mailto:amanda.giang@ubc.ca), using “APPLICATION: Environmental Impacts of Shipping and Decision Analysis – YOUR NAME” in the subject line: cover letter describing your relevant experience, research interests, and preferred start date; curriculum vitae; names and emails for two references. Applications will be considered on a rolling basis until the position is filled; the priority deadline is June 30th, 2022. The position will be appointed for one year, with possible extension for an additional two years, based on performance.

We recognize the value of experiences outside of traditional academic or research settings (e.g., organizing, leadership, community service and engagement, other personal experiences) for problem-driven, stakeholder-engaged inquiry. As a result, you are encouraged to note how these experiences contribute to your research interests and skills as well. Our team is committed to inclusive excellence, and believe that our research to support sustainable, healthy, and just futures is best accomplished with a diversity of perspectives in the research team. 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 self-identification as a First Nation, Metis, Inuit, or Indigenous person.