



Egg Farmers of Canada

Research Chair in Sustainability

Egg Farmers of Canada (EFC) supports a range of research initiatives in areas that will shape the future of egg farming in Canada. Our Research Chair Network, which includes a group of leading experts and researchers at universities across Canada, focuses specifically on issues and opportunities within the Canadian egg farming industry. Each research chair has carefully established a research program at their respective university, overseeing graduate students and academic excellence.

Sustainability is at the core of successful food systems that can support future generations. To better understand the link between environmental sustainability and egg production, and to help the industry develop processes and technologies with environmental and social impacts in mind, EFC invested in a Research Chair in Sustainability at the University of British Columbia's Okanagan Campus, starting in 2016.

Dr. Nathan Pelletier



Dr. Nathan Pelletier is an associate professor at the University of British Columbia's Okanagan Campus. At Dr. Pelletier's lab, Priority Research for Integrated Sustainability Management (PRISM) lab, his team specializes in developing and applying life cycle

sustainability assessment methods in the context of agri-food supply chains for the purpose of sustainability measurement and management. In 2019, Dr. Pelletier received the prestigious Life Cycle Assessment Education Leadership Award by the American Center for Life Cycle Assessment.

Research projects

Dr. Pelletier's work focuses on advancing sustainability measurement and management in the Canadian egg industry. This includes creation of the Canadian Agri-food Life Cycle Data Centre, a publicly available repository of datasets for evaluating the resource and environmental

impacts of activities along agri-food supply chains in Canada to establish a comprehensive environmental profile of the entire industry. Another focus area of his work is the evaluation of emerging green technologies and how they can be scaled up for widespread use. For example, Dr. Pelletier and his team developed the National Environmental Sustainability and Technology Tool (NESTT), a farm-level sustainability assessment platform for Canadian egg farmers, in collaboration with EFC. Together, these activities will enable egg farmers and stakeholders to establish sustainable best practices and support the adoption of new technologies.

Research collaborations

Dr. Pelletier works closely with numerous public and private sector partners, including the American Egg Board, various field crop industry associations, the European Commission Joint Research Centre and the International Egg Commission. Dr. Pelletier currently leads a major Alliance grant that leverages his research chair funding to support a network of researchers at universities across Canada aiming to enable the Canadian egg industry in its goal of achieving net-zero greenhouse gas (GHG) emissions by 2050. This essential work includes detailed economic assessments and the investigation of artificial intelligence applications in support of real-time sustainability management on farms. Dr. Pelletier's work will further EFC's sustainability journey, supporting the development of a detailed roadmap, timelines and strategies towards achieving the net-zero target.



For more information about Egg Farmers of Canada, or our research chairs program, visit eggfarmers.ca, or contact us at research@eggs.ca.

