

Dr. Jennifer Patterson

Nomination for Sigma Xi Board of Directors, representing Canadian/International

Biography: Jennifer Patterson received a BSE in Chemical Engineering from Princeton University (1998), where she was first nominated to membership in Sigma Xi, and a PhD in Bioengineering from the University of Washington (2007). She was a post-doctoral fellow at the Ecole Polytechnique Fédérale de Lausanne (EPFL) in Switzerland (2007-2011). More recently, she was an assistant professor in the Department of Materials Engineering at KU Leuven in Belgium (2011-2017), and she is currently involved in the startup of a company to produce biofabricated 3D tissue analogues. Her research interests are in the areas of biomaterials and tissue engineering, with a focus on the development of materials systems for the controlled spatial and temporal presentation of bioactive signals to stimulate tissue regeneration. She uses principles of biomimicry to engineer naturally derived and synthetic polymer materials for the extended delivery of bioactive molecules. She maintains an active role in a number of academic and professional societies, including the Society of Women Engineers (currently serving as an International Ambassador and previously Chair of the Women in Academia Committee) and Sigma Xi (from 2013-2016 serving as Canadian/International representative on the Committee on Nominations).