

Biocultural Engineering Design: An Anishinaabe Analysis for Building Sustainable Nations [Abstract]

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The fields of ecological engineering, resilience research, and Anishinaabe culture share strong epistemological relationships and common principles. These alignments can be found in worldview, ways of learning, traditional indigenous ecosystem engineering methods, and governance. This article explores how recognizing these alignments enables Anishinaabe cultural knowledge and ways of being to inform and provide the foundation for contemporary engineered design. It also proposes the use of a biocultural engineering design method that integrates the design principles of ecological engineering with indigenous knowledge, cultural relationships, values, and decision-making processes to support contemporary sustainable nation-building.

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