



Ashlea Colton - Technical & Plenary Committee

Ashlea Colton started her education path in the first class of nuclear engineering graduates (B.Eng. Honour) from University of Ontario Institute of Technology (2007).

Her employment with AECL started on the physics design team for the ACR-1000, with a focus on modelling reactivity control devices and performing calculations to obtain confidence in the calculated value for full core coolant void reactivity.

She then transferred to Chalk River in 2008 to work with the Reactor and Radiation Physics Branch in the R&D wing of AECL, to assist in completing the ACR-1000 validation effort.

In 2009, she became the section head of the Modelling and Uncertainty Quantification section and lead the physics team for the Canadian supercritical water cooled reactor (SCWR).

As AECL became a smaller organization in 2014, she stayed with newly formed CNL (Canadian Nuclear Laboratories) and became the physics task lead for the 'Enablers of Thorium Fuel in Advanced Reactors' project and completed a masters at UOIT in modelling and computational science (M.Sc.).

She shifted into the acting manager role for the Computational Techniques branch [in 2020](#) where she is leading projects investigating methods to apply machine learning to degradation monitoring in operating reactors.