

Education

and new nuclear buildouts (both proposed and committed).

In addition, UNENE has developed a portfolio of technical short courses to address many of the nuclear foundational topics and nuclear engineering fundamental subjects. These serve as professional development and continuing education courses for UNENE certificate (nonacademic) credit. These technical short courses together as a suite provide excellent introductory “nuclearization” training and upskilling programs for prospective newcomers and nonnuclear engineers and scientists with undergraduate degrees looking to enter the nuclear industry (whether recent graduates or midcareer professionals). Further work is underway to expand the scope of course subjects in the portfolio and establish the full microcredentials program of stackable course credits and mini-program certifications.

Challenges, uncertainties, and risks

While there will be an enormous demand in the workforce, it is not yet certain how many, what distribution, and when that workforce will be needed. The supply of talent will need to be aligned with the demand. Given that the demand is not yet certain, the ability to supply talent is not yet certain. The Canadian Nuclear Association is currently conducting a workforce demand projection document that is intended to help determine these targets.

There are constraints applied to the universities that introduce some further challenges to expanding educational programming. First, the provinces provide matching funds for domestic students that are capped for different

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