

Canadian Centre for Nuclear Innovation

Statement of Purpose

The purpose of the Canadian Centre for Nuclear Innovation (CCNI) is to place Saskatchewan among global leaders in nuclear research, development and training through investment in partnerships with academia and industry, for maximum societal and economic benefit.

Impact Areas

CCNI partnerships and advisory boards will constitute a network of diverse expertise, nuclear facilities and nuclear methods to make positive impacts in four areas:

1. Advancing nuclear medicine and knowledge;
2. Developing better materials for widespread applications, including energy, health, environment, manufacturing, transportation, and communication;
3. Improving safety and other engineering of nuclear energy systems; and
4. Understanding how to reap the benefits and manage the risks of nuclear technology for society and the environment.

Key Activities

The CCNI will engage in three key activities, each qualitatively distinct, but functioning in synergy to deliver maximum impact. They are:

1. Programs – to establish cross-departmental clusters of academic activity in the nuclear domain, through appointment of a small number of faculty members and encouraging the inclusion of nuclear components in existing courses, thereby providing students with opportunities for accreditation in fields of nuclear science, technology or policy.
2. Projects – to facilitate research and development projects that engage partners from academia, industry and other research institutions, with target outcomes including ongoing business activity within the province of Saskatchewan as a venue for young Canadians to pursue careers at the leading edge of nuclear technology.
3. Facilities – to provide good stewardship of some nuclear infrastructure, ensuring it is maintained in a competitive state of readiness for access in support of research, development and training (e.g. the new Cyclotron).

The CCNI will be based at the University of Saskatchewan, and supported initially by the Government of Saskatchewan. Partnerships will engage other research institutions and industries from across Canada and around the world, leveraging additional resources for sustainable impact into the future.