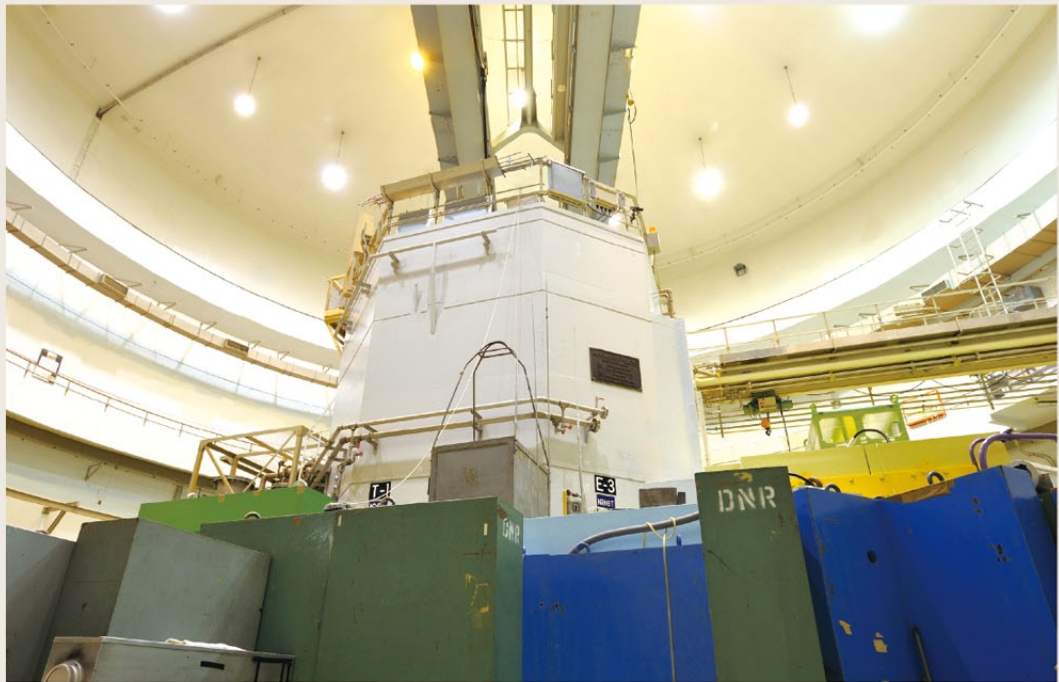


Exploring Peaceful Applications of Nuclear Energy



The Kyoto University Research Reactor (KUR)
A light-water moderated tank-type reactor with a rated thermal power of 5 Megawatts.

We are dedicated to developing the potential of nuclear energy for the peaceful co-existence of peoples, and the preservation of life.

The possible peaceful applications of nuclear energy are not limited to uses in the energy field, and can also contribute to various other fields. Using the reactor's neutrons and radiation, for example, our basic and applied research on Boron Neutron Capture Therapy (BNCT) has made significant contributions to the treatment of malignant tumors.

Located a short distance from Kansai International Airport, the institute has welcomed more than 3000 undergraduate and graduate students from eleven Korean, one Swedish and twelve Japanese universities to its experimental reactor physics course utilizing the Kyoto University Critical Assembly (KUCA) reactor – on offer since 1975. This one-week course equips research students interested in nuclear engineering, with the basic knowledge of nuclear reactor and experimental skills necessary to pursue their studies at Kyoto University and beyond.



Radiation treatment for cancer patients.

From top to bottom:
KUR (Right) and KUCA (Left).
Fixed-Field Alternating Gradient (FFAG) particle accelerator.
Cherenkov light in KUR.

Kyoto University Research Reactor Institute (KURRI)