

## The World's First 'Graduate School of Accelerator' Opening in Sejong Campus of Korea University

Operating with IBS from 2014... Expected to Produce Professional R&D Manpower



▲ 'RAON Laboratory' in Sejong Campus of Korea University will be capable of conducting various tests related with accelerators.

The world's first department of accelerator science designed to produce professional manpower for accelerator R&D will be established in Korea.

On Sept. 26th, Korea University announced the establishment of the Department of Accelerator Science at its Sejong Campus Graduate School in 2014 in cooperation with IBS (Institute for Basic Science).

Accelerator science is a field that integrates various fields such as physics, property and material science, biomedical science and domestic science, and the new accelerator science department will produce professional manpower for accelerator R&D by training students regarding the development, operation and use of accelerators.

The new accelerator science department will be operated in the form of a regular graduate school offering master's degree course, doctorate's degree course, and master–doctor integrated course. The first–year students will be recruited next March to receive professional training in accelerator sciences, and students will receive a variety of benefits such as full scholarships, separate support for student grants, support for overseas conference presentations, privilege to be excluded from military duty as a researcher, and employment opportunities in accelerator related domestic and foreign research institutes.

Anyone who graduated from a 4–year–course college in Korea can apply regardless of the area of specialty, and screening will be conducted through document screening and oral examination. Five to ten students will be admitted, and application can be submitted through the school's homepage ([graduate.korea.ac.kr](http://graduate.korea.ac.kr)) from October 7th to 11th.

The faculty is comprised of professors directly selected by IBS research professors and Korea University. Korea University and IBS have signed an MOU on April 11th for the establishment of the KU–IBS Graduate School of Accelerator Science and the operation of heavy ion accelerator R&D facilities.

Korea University is investing 5 billion won in the construction of a 4 story building for the Raon Laboratory and joint research facilities for accelerator education and R&D in an area of 4,300m<sup>2</sup> inside Sejong Campus for the establishment of the new accelerator department.

Sejong is also pushing forward with the development of the accelerator equipment industry capable of producing equipment needed for accelerators such as the cryogenic system equipment and cyclotron (radioactive isotope producing accelerator) as a part of the Science Belt Functional District Development Project and is expecting synergy effects.

The construction of the 'Raon Laboratory', which was scheduled to start in the beginning of this year, will start in the second half and will be completed at the end of next year.

"It is the first time in Korea and in the world to establish a Department of Accelerator Science as a regular graduate school course," said the dean of the College of Science & Technology of Korea University, Hong–yeon Cho, "The department is expected to produce high–quality manpower who will engage in active research in related industries and domestic accelerator development projects such as Raon, the Korean heavy ion accelerator and the core facility of the international science and business belt, and become the world's leading department conforming to international standards."

The dean also said, "We are recruiting students from Hanyang University, which has the Department of Nuclear Engineering, and the departments of physics, electric and electronic engineering of other universities, as well as the Korea Radioisotope Association and Korean Physical Society," and added, "Since there are not many human resources specializing in accelerators around the world, we will intensify international cooperation and produce talented people who will engage in research on an international level."

Regarding controversies over the benefits, the dean said, "The controversy is nonsense as the school is investing more than 20 billion won in the department not supported by tuition due to the absence of the department and we are only recruiting students within limited capacities," and added, "Rather, the professors of POSTECH expressed a sense of frustration for not having a department related with accelerators long after developing Pohang Accelerator Laboratory."

## World's First Department of Accelerator Science in the Graduate School in Sejong Campus of Korea University

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Korea University is establishing the Graduate School of Accelerator, which will produce high-quality manpower for accelerator R&D, in its Sejong Campus.

On Sept. 26th, Korea University Graduate School announced that they are establishing the Department of Accelerator Science at its Sejong Campus and are recruiting new students from 2014. This is Korea's first as well as the world's first graduate school department specializing in accelerators, and the department will be operated with the Institute for Basic Science (IBS) in the form of a regular graduate school.

Accelerator science is a field which integrates various fields such as physics, property-material science, biomedical science and domestic science, and the new accelerator science department will be engaging in the education and research regarding development, operation, and use of accelerator. The faculty will be comprised of 8 members including IBS researchers (research professors) and professors of the College of Science and Technology of Korea University in Sejong Campus.

Particularly, the department has the ambition to become the 'Institute Specialized for Training Human Resources for Accelerator R&D' true to its name by developing the Raon Laboratory that will engage in accelerator education and R&D as of the end of next year.

A minimum of five to a maximum of ten students will be recruited for a master's degree course, doctorate's degree course, and master-doctor integrated course. Anyone who graduated from a 4-year-course college in Korea can apply regardless of the area of specialty, and students will be admitted through document screening and oral examination.

Students will enjoy a number of benefits such as full scholarships, separate support for student grants, support for overseas conference presentations, privilege to be excluded from military duty as a researcher, and employment opportunities in accelerator related domestic and foreign research institutes.

Applications are accepted between October 7th and 11th through the school's homepage.

"It is the first time in Korea as well as in the world to establish the Department of Accelerator Science as a regular graduate school course", said the dean of the College of Science & Technology of Korea University, Hong-yeon Cho, "We will develop it into the world's leading department by producing high-quality professionals who will passionately engage in research in accelerator related industries in Korea such as the Korean heavy ion accelerator (Raon), which is a key facility of the science belt."

Korea University signed an MOU with IBS for the 'Establishment of KU-IBS Graduate School of Accelerator Science and the Operation of Heavy Ion Accelerator R&D Facility' on April 11th.