

Organization & Qualifications

Seoul National University (SNU), established in 1946, used to have Department of Metallurgical Engineering, Department of Inorganic Materials, and Department of Textile and Polymer Engineering merged into School of Materials Science and Engineering in 2000. The merging has brought about an ideal mixing and balancing of three different departments dealing with different forms of materials, metals, ceramics, and polymer. There are 43 faculty members in the School of Materials Science and Engineering and the research topics of them literally covers all the aspects of materials, including electronic, nano, and nano-bio convergence. There are about 400 undergraduate students and 600 graduate students in this School.

Research Center for Nano-Iontronic Device is one of the research center program supported by the Ministry of Information, Science and Technology in Korea. The aim of this research center is to develop highly sensitive, both spatially and temporally, nanopore and nanochannel device to detect the structure of biomolecules such as DNA and RNA in a single molecule basis. One of the main achievements of this group in recent years is considered as the announcement of an extremely low noise nanopore device.

Korea Nano Technology Research Society (KoNTRS) was established in 2003 by the Nanotechnology Development Promotion Act in 2002 to share information, human resources, and to build collaborative research program among the researchers working on nanotechnology, in general. After the establishment, KoNTRS had been worked on as a representative nanotechnology research society in Korea establishing Korea Nanotechnology Initiative program, Nanotechnology Road Map, Nano Korea (International Conference and Exhibition) and recently launching Nano Convergence journal.