

Research Centers

LEES

Laboratory of Environment and Energy Systems for Cold Regions (LEES)

The aim of this laboratory is to contribute to the establishment of a sustainable society with a main research focus on the development of environmental energy systems in cold snowy regions. This is done by transcending the fields of HUS' related departments, such as those dealing with mechanics, electricity, architecture and civil engineering. Research programs cover renewable forms of energy such as wind, solar power and geothermal heat, energy conservation for buildings, and highly efficient energy utilization.



HSS

Laboratory of Human Support System for Cold Region (HSS)

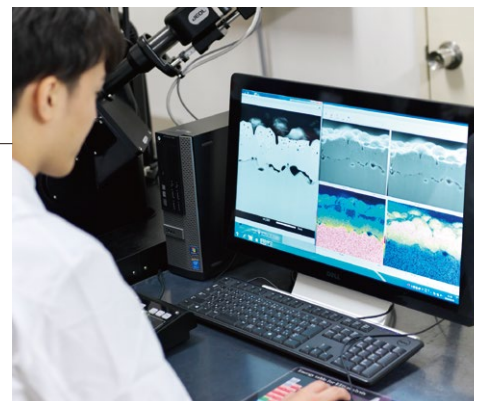
This laboratory promotes research through the functional integration/fusion of people, medical care, machinery and information technology in order to support the wellbeing of residents in cold regions. Particular focus of the laboratory is placed on elderly residents and people with disabilities, who tend to suffer inconvenience not only in daily life but also in emergency situations such as those involving snow damage. The laboratory seeks to support, improve and expand the abilities of such individuals so that they might live more prosperous lives.



LAM

Laboratory of Advanced Materials for Cold Region (LAM)

The main focus of this laboratory is on three areas – leading edge material/material processing, semiconductor/electronic device material and building structure material. It is aimed to contribute to local communities and residents by effectively utilizing intellectual and human resources owned by the university to solve various issues in biomaterial fields. It also promotes revitalization of Hokkaido's regional industries through cooperation with companies in the above three areas and has a particular focus on manufacturing unique to cold regions.



RiCom

Research institute of Community Development and Regeneration (RiCom)

At this laboratory research activities concerning solutions to issues facing local communities and regional revitalization are conducted in the form of a multidisciplinary group focused on coordinating human and social sciences with engineering, and cooperating with local governments, companies, NPOs and other organizations, on issues faced by communities mainly in Hokkaido as research subjects. It promotes research on personnel training, regional culture/tourism and sustainable social systems, highlighting issues concerning regeneration of communities and regional revitalization currently faced by many local governments in Japan. It has also established a system that promotes research based on closer community-university collaboration, which returns the research results to local governments by conducting joint research with invited specialists from local governments, companies, NPOs and other external organizations.

