京都大学 KYOTO UNIVERSITY

Program for Leading Graduate School

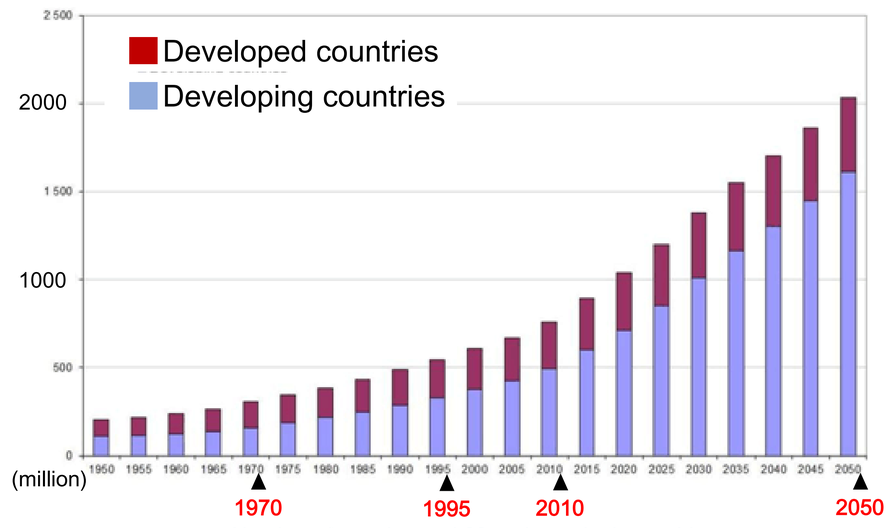
Training program of Leaders for Integrated Medical System for Fruitful Healthy-Longevity Society

Program for Leading Graduate School, initiated by MEXT (Japanese Ministry of education, culture, sports, science and technology), aims at fostering graduates capable of not only conducting research but also serving as international leaders in academia, business and government. Our LIMS Program is one of the selected programs in 2012.

【Outline of LIMS Program】

In an era of global aging, there is an urgent need to foster human resources able to understand the problems of an aging society, and to lead medical innovation supporting a fruitful, healthy-longevity society. Thus, this program will systematically mentor "Leaders for Integrated Medical Development Systems" with an industry-university educational program, supporting a radical reform of graduate education by rebuilding a high-quality interdisciplinary Doctoral degree program with a combined Master and Doctoral course. We also welcome international students and researchers from different fields, who will be trained to respond to the various problems faced, resulting in the establishment of a fruitful healthy-longevity society through (I) applying engineering to medical support systems, and (II) improving engineering with knowledge from the medical sciences.

Challenge from unprecedented aging societies



Number of people aged 60 and over in the world (http://www.unfpa.org/)

		Aging society	Aged society	Extremely aged society
Indonesia	6.4 % (2013)			
Vietnam		7.0 % (2011)		
Thailand		8.9 % (2010)		
Singapore		7.2 % (2000)		
Japan		7.1 % (1970)	14.6 % (1995)	21.5 % (2007)

The percentage of national population aged at 65 and over

Problems

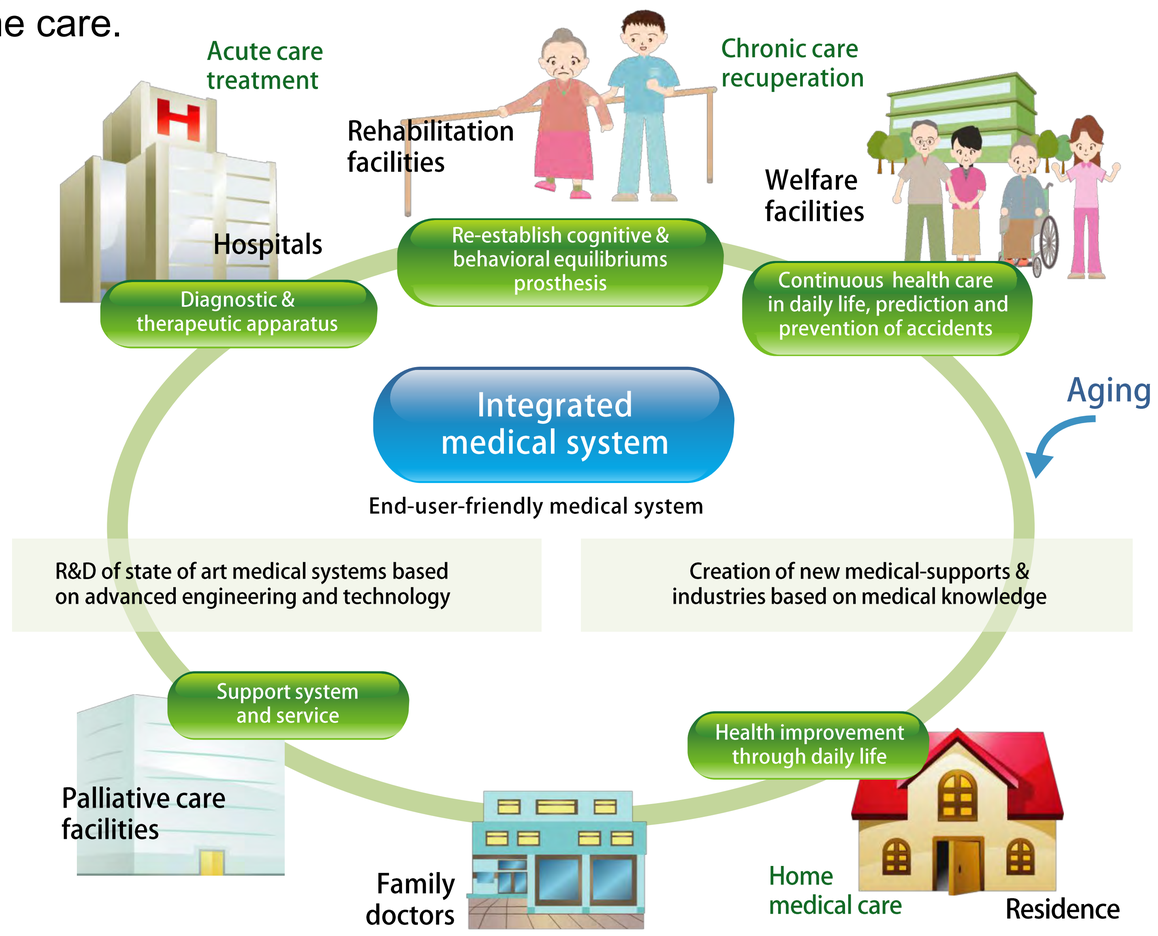
- healthy longevity and high Q O L
- social inclusion of the elderly
- health care cost management

Missions

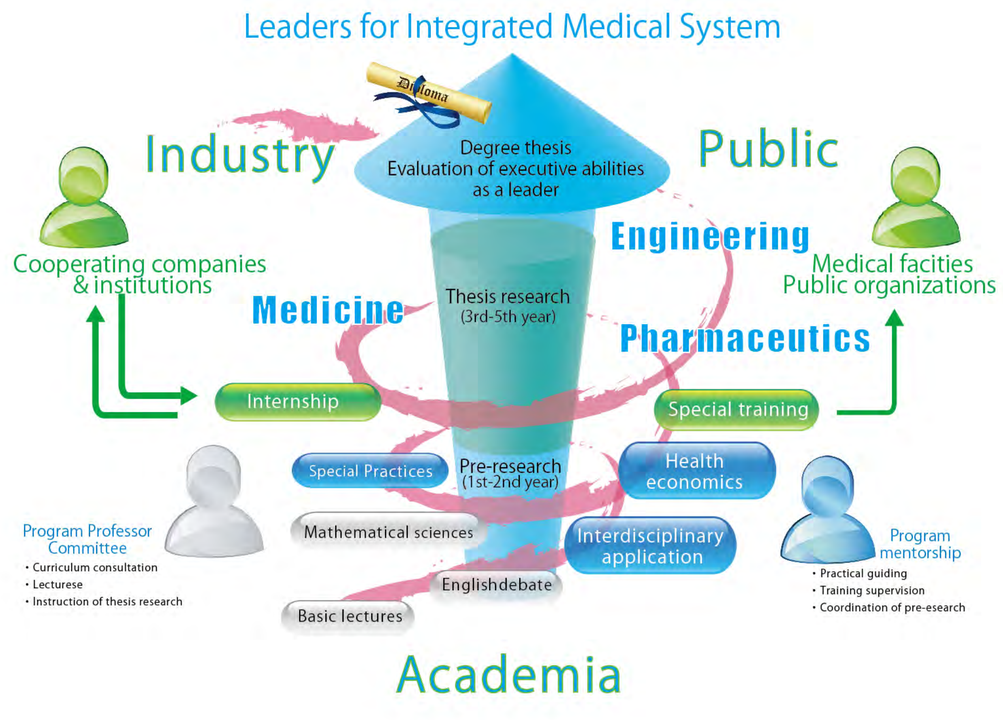
Our approach is to train young leaders who *understand* the problems, *create* integrated medical system and *guide* the medical innovation not only in Japan but also throughout the world.

From medical innovation to medical revolution

The problems of an unprecedented aging society require a new integrated medical system consisting of medical care, welfare and home care.



Through a 5-year training course in a medical science environment, students with non-medical backgrounds are expected to develop potential to integrate practical ideas of medicine with state of the art technologies. Students will seek novel ways in which engineering can contribute to medicine to open a new frontier in medico-engineering research, and apply their acquired skills and knowledge, research achievements for social implementation.

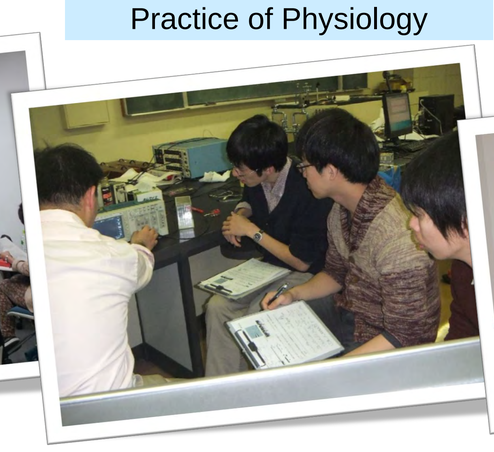


Learning activities at LIMS program

Some of training activities of engineers in a medical science environment

English Debate Class

Practice of Physiology



Practice of medical care, life support

Expansion of Global network of young leaders

LIMS program also puts special emphasis on the promotion of Asian cooperation and guidance. Japanese and international students, after graduation, are expected to become key human resources of young leaders in cooperation, guidance and establishment of a global network to resolve the global health issue of aging societies.

Research and Educational Unit of Leaders for Integrated Medical System

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