

## Cooperation with Industry

### Industry-University-Government Cooperation Policy

Tohoku University has been committed to the “Research First”, the “Open-Door” and the “Practice-Oriented Research and Education” policies since its foundation, and is internationally recognized for its outstanding research and education. The university contributes to the peace and prosperity of human society by devoting itself to research useful in solving societal problems, and by educating human resources in leadership skills.

The university aims to become a “World-class university” which contributes to human society by applying the knowledge it has accumulated over the past century, and by devoting itself to continuous research and education for the next century.

Moreover, under its policy of “global and regional openness,” Tohoku University will contribute to the growth of human society as a whole through the collective strength of its human and intellectual resources, and cooperation with regional and international communities. “Industry-University-Government Cooperation” is the core of our social contribution, our university’s third mission, after “Education” and “Research”, and an important means of delivering the benefits of knowledge to society. Our university follows an active policy of Industry-University-Government Cooperation as described below.

1. Ever since its founding, Tohoku University has had a tradition of “practice-oriented research and education.” Based upon this, the university shall increase the added social value of its education and research by widely disseminating its academic achievements to society and promoting the transfer of technology to industry.
2. In addition to technological transfer and cooperative research, the university shall promote world-leading research into technological innovations within the context of international Industry-University-Government Cooperation.
3. The university shall continuously promote Industry-University-Government Cooperation toward solving problems, including those specific to the region, and contribute to Japan’s economic and social development as a driving force behind innovation.
4. There shall be an organization within the university for the promotion of Industry-University-Government Cooperation, and it shall further such cooperation with an international perspective through the mobilization of university resources and coordination with pertinent domestic and foreign institutions.
5. In promoting Industry-University-Government Cooperation, social accountability shall be fundamental — i.e. ensuring transparency, and complying with international and domestic laws and international treaties.

### Joint Research Projects with Industry

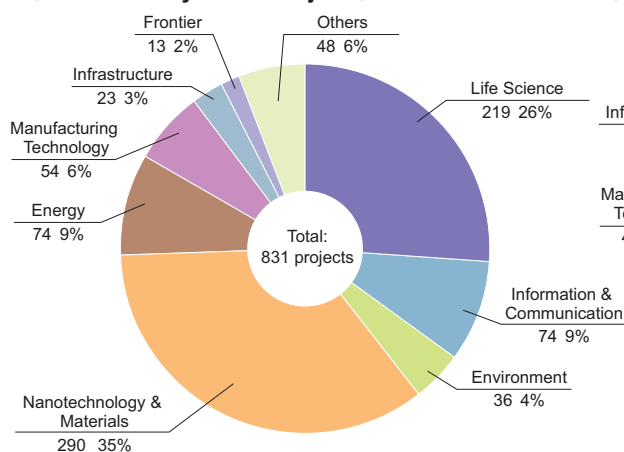
Fiscal Year	No. of Projects	Amount of Money (Unit: million yen)
2003	284	1,129
2004	392	1,675
2005	479	1,827
2006	519	2,028
2007	698	2,086
2008	786	2,459
2009	837	2,692
2010	854	2,956
2011	862	2,840
2012	831	3,084

### Research

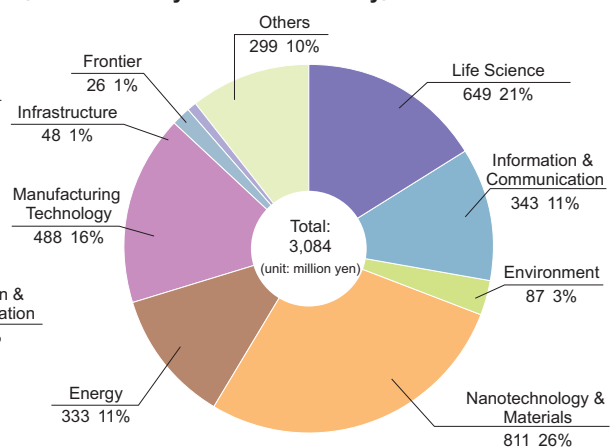
Fiscal Year	No. of Projects	Amount of Money (Unit: million yen)
2003	373	3,450
2004	456	6,149
2005	483	7,358
2006	591	7,927
2007	554	9,101
2008	596	9,131
2009	611	9,563
2010	589	10,008
2011	742	11,397
2012	666	9,587

### Joint Research Projects with Industry (FY 2012)

#### 〈Breakdown by No. of Projects〉



#### 〈Breakdown by Amount of Money〉



## Cooperation with Industry

### Organizational Cooperation

Tohoku University conducts organized cooperation with private enterprises, and promotes practical cooperation in all areas where mutual cooperation is possible, such as research and development, human resources development, and in its responsibilities to the regional community.

Agreement Concluded	Private Company/ Institute	Objective
January 19, 2006	Hitachi, Ltd	Collaborative research and mutual exchange in the field of electricity, information, materials and mechanics
January 31, 2006	National Institute of Advanced Industrial Science and Technology (AIST)	Collaborative research in the field of environment, materials, information and telecommunication, and electronics, etc
February 21, 2006	National Institute of Radiological Sciences	Training professionals in advanced specialties of molecule imaging research PET (positron emission tomography)
July 27, 2006	Seiko Epson Corporation	Promotion of collaborative research, mutual exchange of researchers, education and development of human resources, and international student assistance for the advancement of international exchange
December 26, 2006	Kahoku Shimpo Publishing Co.	Both parties, the educational and research functions of Tohoku University and the news coverage and information service functions of Kahoku Shimpo work together effectively and efficiently in the areas of research and investigation, event co-sponsorship and collaboration, human resource development, etc.
January 31, 2007	77 Bank, Ltd	Provide support and exchange information regarding Tohoku University-based start-ups, matching coordinates between Tohoku University's seeds and regional companies; provide technical advice and promote exchange of human resources.
March 6, 2007	DOWA Holdings Co., Ltd.	Promote joint research and mutual exchange of researchers, foster young researchers, and establish mutual use of research institutes and facilities.
August 3, 2007	Japan Aerospace Exploration Agency (JAXA)	To develop collaborative research and to promote the education of scientists through interdisciplinary studies of cosmic and aeronautical science, including various fields such as bioscience.
July 25, 2008	Central Institute for Experimental Animals	Collaborative research in the field of life science, biological science, material science, psychology and social science, and the cultivation and interaction of human resources.
July 1, 2009	High Energy Accelerator Research Organization (KEK)	Promotion of cooperative research in the field of elementary particle/nuclear physics, physics/life science and accelerator science, and strengthening cooperative research systems.
March 9, 2009	National Institute of Natural Science, National Institute for Fusion Science	Promotion of fusion reactor research, education and exchange of human resources.
April 14, 2009	Riken	To develop diverse academic fields such as theory and experiments, and the fusion of computational science and computer science; create innovations through computational science; foster human resources who will be active globally; and promote the exchange of faculty and researchers.
February 12, 2010	NTT, NTT East	Further expansion of coordinated cooperation in the fields of information and communications, extension and revitalization of educational and research activities, and promotion of interdisciplinary research and development.
June 4, 2010	Sumitomo Metal Mining Co., Ltd.	Further expansion of collaborative research, mutual exchange and human resource development in order to promote research relating to nonferrous metal materials.
July 26, 2011	Tokio Marine & Nichido Fire Insurance Co., Ltd.	Promotion of cooperation and collaboration in research and development, human resource development and other fields of mutual interests related to risk evaluation of earthquakes and tsunamis.
November 10, 2011	Sendai City, University of Tsukuba	Promotion of research and development of algal biomass capable of producing petroleum components from household wastewater, aiming for realization of a fuel production model and new circulation system.
November 22, 2011	IBM Japan	Promotion of cooperation and collaboration in research and development, human resource development and other fields of mutual interests related to risk evaluation of major earthquakes/tsunamis and disaster mitigation technologies.
January 19, 2012	National Institute of Information and Communications Technology	Effective and efficient promotion of research on information communication technologies to reinforce information communication networks and its disaster-proof applications towards creation of a more disaster-resilient society.
October 16, 2012	Japan Agency for Marine-Earth Science and Technology (JAMSTEC)	Promotion of cooperation and collaboration in the area of collaborative research and projects; mutual exchange of students and researchers and fostering human resource; Information exchange on academic materials and research reports etc.; utilization of facilities and equipment.

## Cooperation with Community

### The Science Café

The Science Café provides an opportunity for everyone, including high school students and others, to chat over a cup of coffee with the scientists; listen to them talk about their studies, and to enjoy the fun of science and understand how it contributes to society.

### Tohoku University Innovation Fair 2012

Date	Program Content	Venue
January 17, 2013	Introductions and presentations were made of most-advanced research and extraordinary research by the young researchers in the fields of Manufacturing Technology, life science, nanotechnology/materials, environment/energy and information communication etc.	Sendai International Center



The Science Café

### Extension Courses

Tohoku University is constantly making efforts to play leading roles in educational and academic activities in the Tohoku region. Meeting the community's needs, it provides extension courses and public lectures for lifelong learning of citizens. In FY 2012, the University organized 94 extension courses including on-demand high school classes and 2 public lectures, which were well received in various academic fields. Tohoku University has continued these educational activities made understandable for the public to strengthen cooperation with the community and for the purpose of disseminating information. As a result of these activities Tohoku University has maintained its position as a well-respected university.