

Aims of Project for Developing Innovation Systems

Other Programs in the Project for Developing Innovation Systems

Program for Promoting Self-Sustaining Management of Industry-Academia-Government Collaboration in Universities

Overview

The program aims to establish an environment that enables universities to autonomously carry out industry-academia-government collaboration activities so that the results of research conducted by universities can be effectively utilized for the betterment of society. It provides support to cover the costs of personnel and the expenses of activities for conducting international industry-academia-government collaboration activities, strengthening unique industry-academia-government collaboration activities and allocating industry-academia-government collaboration coordinators.

Program for Realization of Innovation Center for Fusion of Advanced Technology

Overview

The program promotes research activities ranging from fundamental research to achievement-oriented R&D in a comprehensive manner to achievement a system for the realization of technology "seeds" possessed by universities in the advanced interdisciplinary research areas. To that end, it provides support to establish a center for research and development for the creation of results (innovations) with great socioeconomic impact. This will be accomplished by matching technology "seeds" to company needs in the advanced technology areas(*) that are deemed especially important for the creation of innovations.

* Technology areas --- New academic fields that extend over multiple disciplinary areas

Examples of Achievements Made through Program Collaboration

Tohoku University



Program for Promoting Self-Sustaining Management of Industry-Academia-Government Collaboration in Universities

Establishment of systems for managing new intellectual assets resulting from joint research conducted by multiple companies

Program for Realization of Innovation Center for Fusion of Advanced Technology

Establishment of a center for research and development of micro-system integration

Overview

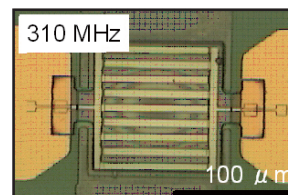
The Tohoku University has established the "Micro System Integration Center" for the creation of innovations in advanced technology areas in an effort to develop a new compact, high-speed, energy-efficient micro system through the combination of a micro system and LSI.

For collaboration with companies, the Program for Promoting Self-Sustaining Management of Industry-Academia-Government Collaboration in Universities helped to establish a system that allows strategic development and execution of industry-academia-government collaboration activities, such as for the acquisition of patents necessary for making research results available to society. The synergetic effect of the two programs is spurring the research and development for the creation of innovations.

Concrete results

These two programs above contribute, companies participating in the Micro System Integration Center project can use the intellectual assets of universities and other research institutions. It has also become possible to disperse the intellectual-property-related risk in the commercialization of intellectual properties. This has led to inventions pertaining to LSI and micro system integration.

Developments include a multi-frequency Lamb-wave oscillator capable of receiving various frequency bands. Creation of more results, diffusion of research results to other regions, and international expansion of research results are expected in the near future.



Newly developed multi-frequency Lamb-wave oscillator

Towards the Creation of Future Regional Innovations

MEXT is taking various approaches to utilize the results of research conducted by universities and other research institutions for the purpose of revitalizing local communities. In Fiscal 2011, MEXT initiated the Regional Innovation Strategy Support Program aiming at promoting the creation of innovations in individual regions through the collaboration of local industry, academia, government and the financial sector, such as universities, research institutions and local public agencies. In addition, MEXT collaborates with relevant ministries to achieve synergetic effects in providing support to ensure sustainable creation of regional innovations.