

# 14. Selection of Research Programs and Educational Programs

## 14-1. Selection of Research Programs

### [The Center Project Selected for the First Time in FY2010]

#### ■ World Premier International Research Center (WPI) Initiative

Institution Name	Director	Period (planned)
International Institute for Carbon-Neutral Energy Research	PETROS SOFRONIS	FY2010-FY2019

#### ■ Programs Funded as Operations for Promoting Science and Technology System Reform (Formerly Special Coordination Funds for Promoting Science and Technology)

Project Title	Topic Name	Project Director	Period
International environmental leaders training program	"East Asia Environmental Strategist Training Program"	President of Kyushu University, Setsuo Arikawa	FY2010-FY2014
Support Program to break the bottlenecks at R&D System for accelerating the practical use of Health Research Outcome	"Optimization of the Treatment of Heart Failure by Means of Vagal Stimulation"	President of Kyushu University, Setsuo Arikawa	FY2010-FY2014
Promotion of international joint collaborative research	"Scientific Platform of Innovative Technologies for Co-upgrading of Brown Coal and Biomass"	Professor, Jun-ichiro Hayashi, Institute for Materials Chemistry and Engineering	FY2010-FY2012

#### ■ Funding Program for Next Generation World-Leading Researchers (NEXT Program)

Project Title	Project Director	Period
Synthesis and Control of Graphene for Carbon Electronics	Associate Professor, Hiroki Ago, Institute for Materials Chemistry and Engineering	FY2010-FY2013
Autonomously of Self-healing Polymeric Materials Based on Dynamic Covalent Chemistry	Associate Professor, Hideyuki Otsuka, Institute for Materials Chemistry and Engineering	FY2010-FY2013
Creation of Environmental Materials from Geomimetics	Professor, Keiko Sasaki, Faculty of Engineering	FY2010-FY2013
Reliable assessment and forecast for influences of atmospheric aerosols on environment by a numerical model	Associate Professor, Toshihiko Takemura, Research Institute for Applied Mechanics	FY2010-FY2013
Development of high-temperature and high-power electronic devices by using high-quality cubic boron nitride	Associate Professor, Kungen Tsutsui, Faculty of Engineering Sciences	FY2010-FY2013
Breaking through Rate/Temperature Limitations in Gasification of Carbon Resources	Professor, Jun-ichiro Hayashi, Institute for Materials Chemistry and Engineering	FY2010-FY2013
Innovative NanoBio Detection with Plasmon NanoAntenna	Professor, Kaoru Tamada, Institute for Materials Chemistry and Engineering	FY2010-FY2013
Super Molecular Probes for Next Generation Biomolecular Imaging	Shinsuke Sando, Professor, INAMORI Frontier Research Center	FY2010-FY2013
Molecular basis of protein disulfide formation and cleavage factors involved in ER quality control	Associate Professor, Kenji Inaba, Medical Institute of Bioregulation	FY2010-FY2013
Understanding the regulatory mechanisms of chromatin modification in the genome reprogramming	Assistant Professor, Yuichi Tsukada, Medical Institute of Bioregulation	FY2010-FY2013
Elucidation of the mechanism underlying chronic pain by focusing on the role of IRF8 transcription factor in microglia	Associate Professor, Makoto Tsuda, Faculty of Pharmaceutical Sciences	FY2010-FY2013
Identification of cancer recurrence / metastasis related non-coding RNAs and clarification of their mechanism	Associate Professor, Koshi Mimori, University Hospital	FY2010-FY2013
Immune responses through novel receptor for mycobacteria	Professor, Sho Yamasaki, Medical Institute of Bioregulation	FY2010-FY2013

### [The Center Project Selected for the First Time in FY2011]

#### ■ Programs Funded as Operations for Promoting Science and Technology System Reform (Formerly Special Coordination Funds for Promoting Science and Technology)

Project Title	Project Director	Period
Tenure Track Promotion Project	President of Kyushu University, Chiharu Kubo	FY2011-FY2016

### [The Center Project Selected for the First Time in FY2012]

#### ■ Translational Research Network Program

Research Domain	Program Supervisor	Period
Establishing ARO to Deliver Creative Next-Generation Medical Care	Professor, Yoichi Nakanishi, Faculty of Medical Sciences	FY2012-FY2016

#### ■ Grants for Creating Research and Education Bases (for Fostering Young Researchers)

Project Name	Program Manager	Period
Grants for Creating Graduate School Centers of Excellence	Executive Vice President and Senior Vice President, Yukio Fujiki	FY2012-FY2013

#### ■ Grants for Research Support System Development Projects

Project Name	Administration Director	Period
University Research Administrator Development Project (Development of a Research Administration System)	Executive Vice President and Senior Vice President, Yukio Fujiki	FY2012-FY2014

\*Source: Kyushu University Information

## 14-1. Selection of Research Programs (Continued)

### [The Center Project Selected for the First Time in FY2013]

#### ■ Japan Science and Technology Agency (JST) Exploratory Research for Advanced Technology (ERATO) Funding Program

Project name	Program Supervisor	Period
ADACHI Molecular Exciton Engineering	Director, Chihaya Adachi, Center for Organic Photonics and Electronics Research	FY2013-FY2019

#### ■ Grants for Promoting the Enhancement of Research Universities

Project Name	Project Director	Period
Program for Promoting the Enhancement of Research Universities	President of Kyushu University, Chiharu Kubo	FY2013-FY2022

#### ■ Center of Innovation Science and Technology-based Radical Innovation and Entrepreneurship Program (COI STREAM)

Institution Name	Project Director	Period
Center for Co-Evolutional Social Systems: Building a diverse and sustainable society through the mobility of people/goods, energy, and information	Yoichi Korehisa	FY2013-FY2016

### [The Center Project Selected for the First Time in FY2014]

#### ■ Enhancing Development of Global Entrepreneur (EDGE) Program

Project name	Project Director	Period
Kyushu University Enhancing Development of Global Entrepreneur Program	Specially Appointed Professor, Toru Tanigawa, Robert T. Huang Entrepreneurship Center	FY2014-FY2016

### [The Center Project Selected for the First Time in FY2015]

#### ■ Grants for Research Support System Development Projects

Project Name	Administration Director	Period
University Research Administrator Development Project (Development of a Research Administration System)	Executive Vice President and Senior Vice President, Masato Wakayama	FY2015-FY2016 (FY2012-FY2014)

#### ■ Funds for the Development of Human Resources in Science and Technology

Project Title	Project Director	Period
Initiative for Realizing Diversity in the Research Environment	President of Kyushu University, Chiharu Kubo	FY2015-FY2020

### [The Center Project Selected for the First Time in FY2016]

#### ■ Funds for the Development of Human Resources in Science and Technology

Project Title	Project Director	Period
Leading Initiative for Excellent Young Researchers	President of Kyushu University, Chiharu Kubo	FY2016-FY2020

### [The Center Project Selected for the First Time in FY2017]

#### ■ Strategic Program for Promoting Translational Research

Project Topic Name	Administration Director	Period
Research and Development of Innovative Medical Technologies for Global Deployment That Link Centers With the Surrounding Region	Professor, Yoichi Nakanishi, Faculty of Medical Sciences	FY2017-FY2021

#### ■ Funds for the Development of Human Resources in Science and Technology

Project Title	Project Director	Period
Enhancing Development of Global Entrepreneur for NEXT Generation (EDGE-NEXT) Entrepreneur development program based on diversity and creative collaboration (IDEA: Innovation x Diversity x Entrepreneurship Education Alliance)	Academic Research and Industrial Collaboration Management Office of Kyushu University General Planning Coordination Group Professor, Hirofumi Taniguchi Head of Robert T. Huang Entrepreneurship Center	FY2017-FY2021

\*Source: Kyushu University Information

## 14-2. Selection of Education Programs

### [The Center Project Selected for the First Time in FY2010]

Program Name	Department Responsible	Name of Initiative	Duration of Initiative
International environmental leaders training program	Research Institute for East Asia Environments	East Asia Environmental Strategist Training Program	FY2010-FY2014

### [The Center Project Selected for the First Time in FY2011]

Program Name	Department Responsible	Name of Initiative	Duration of Initiative
Re-Inventing Japan Project	Interdisciplinary Graduate School of Engineering Sciences	Cooperational Graduate Education Program for the Development of Global Human Resources in Energy and Environmental Science and Technology	FY2011-FY2015
Establishment of a university hospital medical staff training system to promote team medicine	University Hospital	Promoting Advanced Team-based Medicine and Ensuring its Safety	FY2011-FY2015
Subsidy Program for the Development of Centers for Training Policymakers etc.	Center for Science, Technology and Innovation Policy Studies	Science for RE-designing Science, Technology and Innovation Policy (SciREX) Project to Develop Hub Institutions for Fundamental Research and Human Resource Development	FY2011-FY2025

### [The Center Project Selected for the First Time in FY2012]

Program Name	Department Responsible	Name of Initiative	Duration of Initiative
Future Scientists Program	School of Science	Excellent Student in Science Program (ESSP) —Kyushu University School of Science Program Fostering Next-generation Scientists—	FY2012
Promotion Plan for the Platform of Human Resource Development for Cancer	Graduate School of Medical Sciences, Graduate School of Pharmaceutical Sciences	Kyushu Promotion Plan for the Platform of Human Resource Development for Cancer	FY2012-FY2016
Revitalizing Education and Research at the School of Medicine and University Hospital, and Securing Medical Professionals for the Community and Remote Areas	University Hospital	Kyushu University Project to Revitalize Education and Research at the School of Medicine and University Hospital, and Secure Medical Professionals for the Community and Remote Areas	FY2012-FY2016
Re-Inventing Japan Project	Graduate School of Engineering	ASEAN-Japan BUILD-UP Cooperative Education Program for Global Human Resource Development in Earth Resources Engineering	FY2012-FY2016
Re-Inventing Japan Project	Graduate School of Law	A Spiral Model of Collaborative Education : Balancing Global and Local Values through Legal Mind	FY2012-FY2016
Program for Promoting Inter-University Collaborative Education	Graduate School of Information Sciences and Electrical Engineering	Graduate Sub-Program in Electrical Engineering and Energy for Improvement of Practical Abilities and Future Preparation	FY2012-FY2016
Go Global Japan Project	School of Agriculture	Development of AgriBio Leaders with an International Perspective	FY2012-FY2016
Program for Leading Graduate Schools	Interdisciplinary Graduate School of Engineering Sciences, Graduate School of Engineering	Advanced Graduate Program in Global Strategy for Green Asia	FY2012-FY2018
Program for Leading Graduate Schools	Graduate School of Engineering, Graduate School of Science, Graduate School of Information Science and Electrical Engineering	Development of Global Research Leaders in Molecular Systems for Devices and Establishment of an International Education and Research Center	FY2012-FY2018
Program for Promoting the Reform of National Universities (Comprehensive Support)	University-wide	Proposal of a new model for bachelor's degree programs through the establishment of KIKAN Education	FY2012-FY2017

### [The Center Project Selected for the First Time in FY2013]

Program Name	Department Responsible	Name of Initiative	Duration of Initiative
Initiative for International Human Resource Development in the Field of Nuclear Energy : Inter-institutional Human Resource Development Programs	Graduate School of Engineering	Development of a Comprehensive Curriculum for Human Resource Development in the Field of Nuclear Energy: Developing an Achievement-focused Nuclear Energy Experiment and Exercise Program Using Computer Simulations	FY2013-FY2015
Strategic Promotional Program for Vocational Education of Middle Level Professionals in Targeted Growth Fields	Faculty of Human-Environment Studies	Global Approaches on Education and Training of Middle-level Professionals	FY2013-FY2015
Fostering Human Resources for Producing Medical Innovation (New Paradigms-Establishing Centers for Fostering Medical Researchers of the Future)	Faculty of Medical Sciences	Development of international talent to promote innovation	FY2013-FY2017
Fostering Human Resources for Producing Medical Innovation (New Paradigms-Establishing Centers for Fostering Medical Researchers of the Future)	University Hospital	Development of General Practitioners to Provide Integrated Community Healthcare	FY2013-FY2017
Program for Leading Graduate Schools	University-wide	Graduate education and research training program in DECISION SCIENCE for sustainable society	FY2013-FY2019

\*Source: Kyushu University Information

## 14-2. Selection of Education Programs (continued)

### [The Center Project Selected for the First Time in FY2014]

Program Name	Department Responsible	Name of Initiative	Duration of Initiative
Global Science Campus	School of Science, School of Engineering, School of Design, School of Agriculture	Future Creators in Science Project	FY2014-FY2017
Problem-Solving Oriented Training Program for Advanced Medical Personnel	School of Medicine	Practical Skill Enhancement-Oriented and Team-Based Medical Care Acceleration Program	FY2014-FY2018
Top Global University Project	University-wide	Strategic Hub Area for top-global Research and Education (SHARE-Q)	FY2014-FY2023

### [The Center Project Selected for the First Time in FY2015]

None

### [Programs Selected for the First Time in FY2016]

Program Name	Department Responsible	Name of Initiative	Duration of Initiative
Re-Inventing Japan Project	Interdisciplinary Graduate School of Engineering Sciences	Cooperational Graduate Education Program for the Development of Global Human Resources in Energy and Environmental Science and Technology – A New Challenge	FY2016-FY2020
Re-Inventing Japan Project	Graduate School of Human-Environment Studies	Cooperative Educational Program for Fostering Human Resources to Lead Development of Sustainable Urban and Architectural Environment in Asia	FY2016-FY2020
Education Joint Usage Center	Faculty of Arts and Science	Center for the Future Development of Education	FY2016-FY2018

### [The Center Project Selected for the First Time in FY2017]

Program Name	Department Responsible	Name of Initiative	Duration of Initiative
Project for Human Resource Development of Advanced Medical Innovation	Graduate School of Medical Sciences, Graduate School of Pharmaceutical Sciences	Kyushu Promotion Plan for the Platform of Human Resource Development for Cancer	FY2017-FY2021
Project of Human Resource Development for Nuclear Energy	Faculty of Engineering	Enhancement of Kyushu University Nuclear Engineering Curriculum with Emphasis on Regulations and Comprehensive Thinking	FY2017-FY2021

\*Source: Kyushu University Information