Global Joint Research Programs

Global Research Laboratory (GRL)
Global Research Network (GRN)

March 2011
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Location of NRF

Seoul
NRF Seoul Office

Daejeon
NRF Main Office

150km

Korea

China

Japan
Brief history of NRF

- May, 1977  KOSEF established
- Apr. 1981  KRF established
- Feb. 2004  KICOS established
- Mar. 2009  NRF Act enacted (Legislation No. 9518)
- Jun. 26, 2009  NRF launched by a merger of KOSEF, KRF, KICOS

- KOSEF: Korea Science and Engineering Foundation
- KRF: Korea Research Foundation
- KICOS: Korea Foundation for International Cooperation of Science and Technology
Establishment of NRF

NRF covers all academic disciplines
Science, Engineering, Humanities, Social Sciences, Interdisciplinary Studies

Integrated support for interdisciplinary research
Eliminating overlapping functions among organizations
Promoting demand-oriented research management system
Vision and Strategies of NRF

**Vision**
Global Leader in Research Support and Management; one of the 7 major knowledge powers in the world

**Principles**
- Excellence
- Equity
- Efficiency
- Expertise
- Exchange

**Strategies**
- Providing integrated support for the whole spectrum of research fields
- Augmenting PM System to support entire cycle of R&D programs
- Streamlining administrative processes for researcher-friendly support
- Increasing investment in basic and fundamental research
- Strengthening international cooperation with a diversified approach
- Encouraging the convergence of science & technology with the humanities and social sciences
- Functioning as a Think Tank in national R&D policy making process
NRF has a total workforce of 485 as of July 2010
- 23 program managers from universities & research institutes
- 289 permanent employees
- 173 contract employees
2010 Budget: USD 2.6Bil.

- Basic Research
- Enhancement of Academic Research Capacity
- Research Promotion and Infrastructure
- Human Resources Development
- Fundamental Technology
- Big Science
- Nuclear Energy
- International Cooperation in Science and Technology
- Others

GRL, GRN, KORANET, KESTCAP, KORRIDOR, Bilateral Program (Korea-Germany, Korea-France, NRF-DFG/DAAD, NRF-ANR)
PM System

PM is in charge of the entire cycle of R&D program management

Program Design
Application Review
Project Selection
Progress Review
Final Evaluation
Outcomes Management
Simplifying Administrative Processes
Restructuring Organization to Better Meet Researchers’ Needs
Enhancing Researchers’ Accessibility to R&D Information
Promoting Autonomy of Research Activities
Launching a Pilot Program to Support “Risky Research”
Think Tank for Korea’s R&D Development

- Playing a Key Role in the Government’s R&D Policy Making Process
- Identifying Promising Industries and Future Technologies
- Identifying Strategic Research Areas for Future Growth
- Providing Consultancy on National R&D Policy
- Identifying Issues in R&D Policy and Developing Solutions
- Functioning as a Communication Channel between the Government and Researchers

Researchers → NRF → Government

Identify Issues → Propose Solutions
Korea-EU Cooperation Programmes

**EU Framework Programme**

- **EU FP Joint Research Funding Programme**: Funding programme for Korean researchers participating in EU FP 7
- **EU FP Preparation Funding Programme**: Funding programme for Korean researchers expected to join EU FP 7
- **KESTCAP**: Platform programme to develop sustainable S&T cooperation strategies, disseminate information and promote cooperation in order to enhance S&T cooperation advancement between Korea and EU
- **KORANET**: Building a sustainable and coordinated system for Korea-EU scientific joint research programme and promoting communication between Korea and EU countries
- **NCP**: Supporting national contact persons to collect and disseminate EU information in 9 specific areas

**Overall Funding Amount**

- **MEST**: 1,600,000 euros (KRW 2.6 bil.) per year (Joint Research, Preparation Programme, KESTCAP, NCP)
- **European Commission**: 820,000 euros for 3 years (KESTCAP, KORANET)
KORANET

General Information: KORANET partners

Consortium committee:
- British Council (BC)
- Centre National de Recherche Scientifique (CNRS)
- German Aerospace Center (DLR)
- VDI/VDE Innovation + Technik (VDI/VDE-IT)
- Centre for Social Innovation (ZSI)
- Technical Research Centre of Finland (VTT)
- Polish Academy of Science
- Veneto Innovazione (VenInn)
- Hungarian-Korean Technical Cooperation Center (HKTCC)
- Scientific and Technological Research Council of Turkey (TÜBİTAK)
- National Research Foundation of Korea (NRF)

Steering committee:
- BMBF (Germany)
- MEST (Korea)
- BMWF (Austria)
- NKTH (Hungary)
- MAEE (France)

Observer:
- Royal Society Science Policy Centre (UK)
- British Academy (UK)
- Research Council of Norway
- OSEO (France)
- VINNOVA (Sweden)
- KIAT (Korea)
- Several competence networks and clusters
Global Research Laboratory (GRL) Program
Objectives

Strengthening global cooperation networks, increasing Korea's research competency through intensive international cooperation in the areas of fundamental and core technology.
<table>
<thead>
<tr>
<th><strong>Program Details</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Funding Period</strong></td>
</tr>
<tr>
<td>3 - 9 years</td>
</tr>
<tr>
<td><em>(interim evaluations every 3 years)</em></td>
</tr>
<tr>
<td><strong>Funding Scale</strong></td>
</tr>
<tr>
<td>500 Million KRW per year</td>
</tr>
<tr>
<td><em>(about 330,000 Euros per year)</em></td>
</tr>
<tr>
<td><strong>Funding Details</strong></td>
</tr>
<tr>
<td>Research projects suitable for joint researches with prominent overseas laboratories <em>(Nobel Laureates etc.)</em></td>
</tr>
<tr>
<td><strong>Budget for 2011</strong></td>
</tr>
<tr>
<td>12,000,000 Euros</td>
</tr>
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</table>
Program Details

Eligible Fields

Fields selected by the Globalization Program Committee
  e. g) 2010 Green Growth, Core Fundamental Technology, etc.

Eligible Applicants

Korean research centers, Laboratories, Organizations or institutions

New Projects of 2011

7 projects

Call for proposals

02/25/2011 - 03/28/2011
Scientific Fields 2011

Optimal Energy Utilization
Hydrogen Energy Production and Storage
Next Generation Battery and Energy Storage & Conversion
New and Renewable Energy (Solar, Wind, Bio)
Energy and Resource Development
Marine Environment (Ecosystem) Conservation and Restoration
Water Management and Water Conservation
Climate Change Prediction and Adaptation
Natural Disaster Prevention and Response
Marine Living Resources Conservation and Marine Biotechnology Utilization
Eco-Friendly Nano Material Application
Advanced Superconducting Technology and Power IT
Optimal Resource Utilization, Green Process Technology
Resource Recycling and Safe Waste Disposal
Integrated Management and Utilization of Environmental Information

- Ultra-precision Machining and Measurement & Control Technology
- Semiconductor Memory
- Advanced Display Technology
- Cancer Diagnostic and Therapeutic Technology
- Drug Discovery Technology
- Drug Development for Human Diseases
- Clinical Trial Technology
- Stem Cell Application
- Protein Metabolite Application Technology
- Development of Novel Drug for a Selected Target and Candidates
- Brain Science Research and Brain Disease Diagnosis & Therapy
- Immunology and Infectious Diseases Response
- Human Safety and Risk Assessment
- IT Nano devices
- Nano Fusion Materials
- Next Generation Semiconductor Memory
- Biomaterials and Process Technology
- Regulation of Cellular Function
Program Details - Procedure

- Public call for Preliminary Proposal (February 2011)
- 1st Evaluation of Preliminary Proposal (April 2011)
- Public Call for Full Proposals (May 2011)
- 2nd Evaluation (Full Proposal) (June 2011)
- Finalizing and Signing the Contract (July 2011)
Evaluation Procedure

- First Stage: Written evaluation conducted by a panel of experts from the particular technological fields
- Second Stage: Oral presentation where proposals are evaluated in accordance with the joint presentation given by both KPI and FPI.

Evaluation Criteria

- Joint Research Objectives and Methodology
- Cooperation between Domestic and Overseas Institutions
- Human Resource Development
Global Research Network (GRN) Program
Objectives

- Expand networks and joint research projects with prominent international universities and researchers
- Improve the national research capacity and create world-class research results
## Program Details

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Funding Period</strong></td>
<td>1 - 3 years</td>
</tr>
<tr>
<td><strong>Funding Scale</strong></td>
<td>Approximately 65,000 Euros per project / year</td>
</tr>
</tbody>
</table>
| **Direction of Support** | - Provide support from the bottom up  
                          | - Support all areas of discipline  
                          | - Establish international review pool                          |
| **Budget for 2010**   | 52,000,000 Euros                                                        |
Program Details

Eligible Fields
All areas of discipline
e. g) Arts, humanities and Social Sciences,
Science and Engineering

Eligible Applicants
Korean research institutions,
Research organizations and universities.

Researcher Requirements

<table>
<thead>
<tr>
<th>Field</th>
<th>Researcher from Korea (PI and Collaborator)</th>
<th>Researcher from abroad (Collaborator(s))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science and Engineering</td>
<td>Five or more scientific papers* published in journals registered with the National Research Foundation of Korea or SCI, SCOPUS-level journals since January 1, 2007</td>
<td>Paper(s) published in internationally recognized journals(Sci, SCOPUS-level) since January 1, 2007</td>
</tr>
<tr>
<td>Arts, Humanities and social sciences</td>
<td>Three or more papers* published in journals registered with the National Research Foundation of Korea or SSCI and A&amp;HCI-SCOPUS-level journals since January 1, 2007</td>
<td>Paper(s) published in internationally recognized journals(SSCI and A&amp;HCI-SCOPUS-level) since January 1, 2007</td>
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Program Details

Type of Program

Joint Research

- Principal investigator must be an affiliate researcher of a university or research institute in Korea
- Both Korean and foreign researchers may apply for the joint research as long as one of the partner researcher is an affiliate of a university or research institute from overseas

New Projects of 2011

16 projects

Call for proposals

March ~ April, 2011 (not confirmed yet)
**Program Details - Applications**

**Application period (FY 2011)**
- Proposal submission: March to April, 2011
  (at least one month after opening date)

**Application method**: online application

**Documents to submit**
- Research proposal in English, certificate of employment (in the case of researchers from abroad), records of correspondence (e-mails etc.)

Those who fail to submit all required documents will be excluded from the review process.
# Evaluation

<table>
<thead>
<tr>
<th>Stage</th>
<th>Type</th>
<th>Contents</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Eligibility verification</td>
<td>Verify whether applicants meet eligibility requirements</td>
<td>Online system</td>
</tr>
<tr>
<td>2</td>
<td>Panel review</td>
<td>Review research proposals and assess research capacity</td>
<td>Korean review panel (Select a three-fold number of candidates)</td>
</tr>
<tr>
<td>3</td>
<td>Professional online review</td>
<td>Review research proposals and assess research capacity</td>
<td>Int'l peer review</td>
</tr>
<tr>
<td>4</td>
<td>Comprehensive review</td>
<td>Decide award</td>
<td>Comprehensive review committee</td>
</tr>
</tbody>
</table>
Contact Information

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Thank You