The Leader of Academic Research

Office of Research Affairs at the center of the research that makes SNU grow, leading the academic evolution and bringing development to the world.
Vision / Mission / Core Projects

The ORA of SNU creates academic value and cultivates new industrial-academic collaborations. We not only provide an efficient and stable research environment but also plan research and spread our achievements. The management strategies include establishing a system for conversion studies and directions for future research, too. Furthermore, we are strengthening the international status of SNU and our country by adhering to social responsibilities and emphasizing research in response to global challenges.

Pivot of Industrial-academic Cooperation
We create the future

Lots of tasks mean lots of opportunities of accomplishments. With a sense of mission as the pivot of industrial-academic cooperation, we incessantly strive to become a world-leading research university.

The ORA of SNU creates academic value and cultivates new industrial-academic collaborations. We not only provide an efficient and stable research environment but also plan research and spread our achievements. The management strategies include establishing a system for conversion studies and directions for future research, too. Furthermore, we are strengthening the international status of SNU and our country by adhering to social responsibilities and emphasizing research in response to global challenges.
Office of Research Affairs
The ORA leads planning and adjusting all academic research of SNU. The ORA fosters research-friendly environments, supports research activities and presents directions for future research.

SNU R&DB Foundation
The SNU R&DB Foundation plays a key role in systemizing research support by the central management system for research funding. In addition, it manages intellectual property, R&D education, and industrial-academic cooperation.

Collaboration is the most pivotal means for making dreams come true. We continue to march towards one goal altogether so that the dreams and passions of our researchers do not go to waste.
### Overview of Extramural Research Funding

<table>
<thead>
<tr>
<th>Sponsors</th>
<th>Government Agencies</th>
<th>Gov-funded Entities</th>
<th>Industries &amp; Foundations</th>
<th>Others</th>
<th>Total</th>
<th>Annual Rate of Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>403,509</td>
<td>10,817</td>
<td>45,294</td>
<td>2,760</td>
<td>462,380</td>
<td>16.1%</td>
</tr>
<tr>
<td>2010</td>
<td>424,357</td>
<td>16,821</td>
<td>49,672</td>
<td>3,224</td>
<td>494,074</td>
<td>6.9%</td>
</tr>
<tr>
<td>2011</td>
<td>490,867</td>
<td>21,762</td>
<td>60,199</td>
<td>2,629</td>
<td>575,457</td>
<td>16.5%</td>
</tr>
<tr>
<td>2012</td>
<td>485,494</td>
<td>54,393</td>
<td>67,400</td>
<td>4,948</td>
<td>612,235</td>
<td>6.4%</td>
</tr>
</tbody>
</table>

*Based on annual revenue of sponsored research (Jan. 1-Dec. 31)*

### Status of Sponsored Research Revenue

<table>
<thead>
<tr>
<th>Year</th>
<th>Government Agencies</th>
<th>Gov-funded Entities</th>
<th>Industries &amp; Foundations</th>
<th>Others</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>462,380</td>
<td>87.3%</td>
<td>494,074</td>
<td>85.9%</td>
<td>575,457</td>
</tr>
<tr>
<td>2010</td>
<td>494,074</td>
<td>85.9%</td>
<td>494,074</td>
<td>85.9%</td>
<td>575,457</td>
</tr>
<tr>
<td>2011</td>
<td>575,457</td>
<td>85.3%</td>
<td>575,457</td>
<td>85.3%</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>612,235</td>
<td>79.3%</td>
<td>612,235</td>
<td>79.3%</td>
<td></td>
</tr>
</tbody>
</table>

What is more important than being on the top is consistent and continuous growth. What is more important than achieving best results is consistent and continual accumulation of creative values. The steps we take with passion will make a brighter tomorrow for SNU, positioning it at the center of the academic world.
Publications of High-Impact Academic Journals

<table>
<thead>
<tr>
<th>Year</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>SCI</td>
<td>KCI</td>
<td>SCI</td>
</tr>
<tr>
<td>Number</td>
<td>SCI Registration Candidate</td>
<td>SCI Registration Candidate</td>
<td>SCI Registration Candidate</td>
</tr>
<tr>
<td>2009</td>
<td>1,993</td>
<td>266</td>
<td>2,259</td>
</tr>
<tr>
<td>2010</td>
<td>1,959</td>
<td>262</td>
<td>2,221</td>
</tr>
<tr>
<td>2011</td>
<td>1,820</td>
<td>225</td>
<td>2,045</td>
</tr>
<tr>
<td>2012</td>
<td>1,529</td>
<td>213</td>
<td>1,742</td>
</tr>
</tbody>
</table>

Research Achievements: Publications

(Based on data from Research Achievements Management System as of April 30, 2013)

<table>
<thead>
<tr>
<th>Published Year</th>
<th>Domestic Articles Published in NRF (including candidates)</th>
<th>International (SCI)**</th>
<th>Total</th>
<th>Single-Volume Books**</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>1,993</td>
<td>266</td>
<td>2,259</td>
<td>5,304</td>
</tr>
<tr>
<td>2010</td>
<td>1,959</td>
<td>262</td>
<td>2,221</td>
<td>6,018</td>
</tr>
<tr>
<td>2011</td>
<td>1,820</td>
<td>225</td>
<td>2,045</td>
<td>6,340</td>
</tr>
<tr>
<td>2012</td>
<td>1,529</td>
<td>213</td>
<td>1,742</td>
<td>7,057</td>
</tr>
</tbody>
</table>

*International SCI: Articles, Reviews, and Letters among materials on the Web of Science as of May 9, 2013

** (non-SCI and Scopus articles are not included)


Research Achievements Management System (RAMS) - Office of Research Affairs, Seoul National University

Pending and Issued Patents

Patent Portfolios

Technology Transfer & Licensing Revenues

Publication of SCI Articles

* Number of Faculty: as of April 1

Office of Research Affairs, Seoul National University

Research Activities at SNU in 2013
Research Activities at SNU in 2013

Office of Research Affairs, Seoul National University

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Research Activities at SNU in 2013

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Subjects Rankings

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Global Rankings</th>
<th>Arts &amp; Humanities</th>
<th>Modern Language</th>
<th>44</th>
</tr>
</thead>
<tbody>
<tr>
<td>Life Sciences &amp; Medicine</td>
<td></td>
<td>Biological Sciences</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pharmacy &amp; Pharmacology</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td>Agriculture &amp; Forestry</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>Engineering &amp; Technology</td>
<td></td>
<td>Statistics &amp; Operational Research</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics &amp; Econometrics</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Accounting &amp; Finance</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chemical Engineering</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td>Civil &amp; Structural Engineering</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mechanical, Aeronautical &amp; Manufacturing Engineering</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physics &amp; Astronomy</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Environmental Sciences</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chemistry</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Materials Sciences</td>
<td>23</td>
<td></td>
</tr>
</tbody>
</table>

Best Talents

the competitive edge of research in SNU

Nothing is more valuable than human resource in academic research. All of SNU’s research activities begin with those silently performing their given roles in their respective positions.

Faculty

Full-time + Endowed 2,157(103)

2,667(164)

Staff

Administration 564

1,045

Students

Bachelor’s 21,370(1,029)

34,001(2,881)

Researchers

Senior researcher 308(52)

1,418(177)

GS World University Rankings

Global Rankings

2009 2010 2011 2012 2013

47 50 42 37 35

Rankings by Subject (Global top 50)

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Rankings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts &amp; Humanities</td>
<td>Modern Language 44</td>
</tr>
<tr>
<td>Life Sciences &amp; Medicine</td>
<td>Biological Sciences 50</td>
</tr>
<tr>
<td></td>
<td>Pharmacy &amp; Pharmacology 22</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Agriculture &amp; Forestry 43</td>
</tr>
<tr>
<td>Engineering &amp; Technology</td>
<td>Statistics &amp; Operational Research 50</td>
</tr>
<tr>
<td></td>
<td>Economics &amp; Econometrics 45</td>
</tr>
<tr>
<td></td>
<td>Accounting &amp; Finance 45</td>
</tr>
<tr>
<td></td>
<td>Chemical Engineering 17</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Civil &amp; Structural Engineering 38</td>
</tr>
<tr>
<td></td>
<td>Mechanical, Aeronautical &amp; Manufacturing Engineering 29</td>
</tr>
<tr>
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<td>Physics &amp; Astronomy 38</td>
</tr>
<tr>
<td></td>
<td>Environmental Sciences 38</td>
</tr>
<tr>
<td></td>
<td>Chemistry 29</td>
</tr>
<tr>
<td></td>
<td>Materials Sciences 23</td>
</tr>
</tbody>
</table>

QS World University Rankings

GS Rankings

2009 2010 2011 2012 2013

47 50 42 37 35

GS Rankings

2009 2010 2011 2012 2013

47 50 42 37 35

Activities & Achievements

Members

Faculty

2,667(164)

2,157(103)

Invited 121(60)

Others 368(1)

Full-time + Endowed

Staff

Librarian 83

Computer system 40

Mechanic & Facilities 153

Agriculture & Food 51

Public health & Environment 35

Curating & Admission screening 11

Facility management 108

Members

Researchers

Senior researcher 308(52)

1,418(177)

Lead researcher 985

Training researcher 348(73)

Guest researcher 348(73)

Doctorate 3,737(759)

Master’s 8,892(1,093)

* Unit : number of people, in the ( ) is the number of foreigners / as of April 1, 2013
Under Wide-ranging Research Support
the true value of learning blossoms

We encourage and generously support SNU researchers as they challenge their limits and achieve world-class research results.

Formation of Research Infrastructure
- Research Resettlement Grants for New Professors
- Research Grants for Foreign Professors
- SNU Brain Fusion Program (to encourage interdisciplinary fusion research)
- Grants for Research by Undergraduates

Reinforcement of Research Ethics
- Education on Research Ethics
- Deliberation on Research Subjects (on studies targeting mankind or animals, etc.)
- Support for Research Ethics (with an exclusive organization)

Research Funds for Distinguished Researchers
- Support for New and Promising Researchers (early assistant professors)
- Support for Creative-Pioneering Researchers (world-renowned professors)

Financial Support for Academic Activities
- Travel Expenses for International Academic Conferences
- Publication Expenses for Academic Journals
- High-Impact Academic Journal Issuance Expenses (SCI-level or KCI-level)
- Expenses for Holding International or Domestic (Interdisciplinary) Academic Conferences
- Expenses for Inviting Renowned Foreign Scholars
- Overseas Training Expenses for Professors Affiliated with the Humanities & Social Sciences
Various Research Facilities

Our togetherness allows us to have bigger plans and dreams.

Research Institutes

University-affiliated

- Institute for Peace and Unification Studies
- Bio-MAX Institute
- Institute for Research In Finance and Economics
- Asian Institute for Energy, Environment and Sustainability
- Green-Bio Research Complex

College of Humanities

- Institute of Humanities
- American Studies Institute
- Institute of Cognitive Science
- Institute of Philosophical Research
- Institute of Historical Research
- Institute of Latin American Studies

College of Natural Sciences

- Institute of Basic Sciences
- Institute of Molecular Biology and Genetics
- Research Institute of Oceanography
- Center for Theoretical Physics
- Institute of Microbiology
- Research Institute of Mathematics
- Institute of Applied Physics

College of Nursing

- Research Institute of Nursing Science

College of Business Administration

- Institute of Management Research
- Institute of Industrial Relations
- Institute of Information and Operations Management
- Institute of Finance and Banking

College of Engineering

- Inter-University Semiconductor Research Center
- Engineering Research Institute
- Research Institute of Advanced Materials
- Automation and Systems Research Institute
- Institute of Computer Technology
- Institute of Advanced Machinery and Design
- Institute of New Media and Communications
- Research Institute of Energy and Resources
- Research Institute of Marine Systems Engineering
- Institute of Chemical Processes
- Institute of Advanced Aerospace Technology
- Integrated Research Institute of Construction and Environmental Engineering

College of Agriculture and Life Sciences

- Research Institute for Agriculture & Life Sciences
- Center for Food and Bioconvergence
- Center for Plant Molecular Genetics and Breeding Research

College of Fine Arts

- Visual Arts Institute

College of Education

- Center for Education Research
- Education Research Institute
- Sports Science Research Institute
- Korean Language Education Research Institute

College of Human Ecology

- Research Institute of Human Ecology

College of Veterinary Medicine

- Research Institute of Veterinary Medicine

College of Pharmacy

- Natural Products Research Institute
- Research Institute of Pharmaceutical Sciences

College of Music

- Asian Music Research Institute
- Western Music Research Institute
- Opera Research Institute

College of Medicine

- Medical Research Center
- Cancer Research Institute
- Liver Research Institute
- Aging and Apoptosis Research Center
- Wide River Institute of Immunology

Graduate School of Public Health

- Institute of Health & Environment

Graduate School of Public Administration

- Korea Public Administration Research Institute
- Research Institute of Public Information Management
- Asia Development Institute

Graduate School of Environmental Studies

- Environmental Planning Institute

Graduate School of International Studies

- Institute of International Affairs
- Institute for Japanese Studies

School of Dentistry

- Dental Research Institute

School of Law

- Law Research Institute
- Asia-Pacific Law Institute

Graduate School of Convergence Science & Technology

- Advanced Institutes of Convergence Technology
Government-funded Research Center
(Funded with more than eight hundred million won per year, carrying out projects with research periods stretching for more than five years)

- Flight Vehicle Research Center
- Center for Marine Natural Products and Drugs Discovery
- Research Center for Functional Cellulomics
- Intelligent Textile Systems Research Center
- Center for Space-Time Molecular Dynamics
- Innovative Drug Research Center for Metabolic and Inflammatory Disease
- Center for Subwavelength Optics
- Bone Metabolism Research Center
- Center for Fungal Pathogenesis
- Research On Software Analysis for Error-free Computing: ROSAEC Center
- Center for Advance Research in Fusion Reactor Engineering
- Oromaxillofacial Dysfunction Research Center for the Elderly
- Fusion Research Team for CMOS Molecular Image Processors
- Advanced Marine Engineering Center
- PDE and Functional Analysis Research Center
- Center for THz-Bio Application Systems
- Korea Neutrino Research Center
- Intelligent Vehicle IT Research Center
- Research Center for Endogenous Ligand Modulating Anticancer Agents
- Global Education Center for Engineers
- BioMembrane Plasticity Research Center
- Systems Biomedical Informatics Research Center
- Center for Food Safety and Toxicology
- Vegetable Breeding Research Center
- Medicinal Bioconvergence Research Center
- Korea-Sweden Carbon Based Nanostructure Research Center
- Plant Molecular Breeding Center
- Center for Multi-scale Testing and Assessment at Combined Environment
- QiLT Industrial Infrastructure Development Center
- Center of Environmental Remediation & Risk Assessment
- Tumor Microenvironment Research Center
- Neuro-Immune Information Storage Network Research Center
- Data Science for Knowledge Creation Research Center
- Global Frontier Center for Multiscale Energy Systems
- Structural Research Center for Innovative Drug Development
- Multi-Screening Center For Drug Development
- Center for Correlated Electron Systems
- Center for RNA Research
- Nanomaterials Laboratory
- Division of Global Sport Management Talent Development
- Korea Bridge Design & Engineering Research Center

BK21 PLUS Groups (Teams)

Groups
- Smart Governance HRD Program for Creative Public Entrepreneurs
- BK21 PLUS Dental Life Science
- SNU Mathematical Sciences Division for Creative Human Resources Development
- Division of Chemistry and Molecular Engineering
- School of Earth and Environmental Sciences
- Advanced Training Program for Biological Sciences
- Frontier Physics Research Division
- Biomedical Science Project
- Smart Humanity Convergence Center
- Research & Educational Program for Creative Global Pharmaceutical Scientists (R&E Program for CGPS)
- BK21 PLUS Program for Creative Veterinary Science Research
- Education and Research Program for Creative Global Pharmacological Scientists
- 4-Zero Land Space Creation
- Institute of Future Education Design (IFED)
- Department of Agricultural Biotechnology
- SNU Materials Division for Educating Creative Global Leaders
- Creative Research Engineer Development for IT
- BK21 Plus Program in Chemical Engineering
- BK21+ Transformative Training Program for Creative Mechanical and Aerospace Engineers
- SNU Division of Graduate Education for Sustainable Development
- Education and Research Center for Creative Offshore Plant Engineers
- Center for Sustainable and Innovative Industrial Systems (C-SiIS)
- Global Translational Research on Molecular Medicine and Biopharmaceutical Sciences
- Interdisciplinary Center for Cellular Dynamics
- Brain and Cognitive Sciences

Teams
- Advanced Program for Next-Generation Global Structural Engineers
- Innovative Research and Education Team for Information & Communication Technology-based Medical Devices
- Human Resource Project for Creative Knowledge and Convergence among Technology, Management, Economics and Policy
- Lignocellulosic Biomass-based Advanced Eco-Materials Technology Team for BK21 PLUS
- Research team for crop genomics and breeding
- Global leadership program towards innovative green technology
- Regional Quantitative Analysis Research Group
- Center for Healthy Environment Education & Research (CHEER)
- A Professional Cultivation of Creative Korean Language Education for Future
- A Research Team for Developing Creative Convergence Social Service Models: A Life Cycle Approach
- Incubator for creative talents in clothing and fashion
- Innovating Iberian and Latin American Studies by Global Standards
- A Research Initiative on Adaptation Strategies focusing on Resilience in an Era of Climate Change Risk