Education for Global Leadership
International Technology Professional Program (ITPP)

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History of Program

- Global IT Policy Program (ITPP) of Seoul National University (SNU) and Global IT Technology Program (ITTP) of KAIST are international scholarship and education programs sponsored by Ministry of Science and ICT, Republic of Korea.
Program Overview

- **Title:** Global IT Policy Program (ITPP)
- **Started from 2003 at Seoul National University**
- **Post-graduate program (Master’s/Doctoral Degree)**
- **127 fellows from 43 countries (as of March, 2019)**
- **Mainly educating IT professionals based on public governance and management of ICT**

- **Title:** Global IT Technology Program (ITTP)
- **Started from 2006 at ICU**
- **Post-graduate program (Master’s/Doctoral Degree)**
- **160 fellows from 53 countries (as of September, 2018)**
- **Mainly educating IT professionals holding engineering background**
International IT Policy and Technology Program (ITPP & ITTP)

Global ICT Innovation (GII) Network

More than 300 ICT Leaders from 70 Countries
**International IT Policy and Technology Program (ITPP & ITTP)**

### Strategies

<table>
<thead>
<tr>
<th>Last 15 years</th>
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<tbody>
<tr>
<td>ITPP &amp; ITTP 1.0 (2003-2007)</td>
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<tr>
<td>Program Building (MIC)</td>
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<tr>
<td>Pro-Korean Policy</td>
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<tr>
<td>ITPP &amp; ITTP 2.0</td>
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<tr>
<td>ITPP &amp; ITTP 3.0 (2008-2017)</td>
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<tr>
<td>Collaboration Building (MKE, MSIP, KCC)</td>
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<tr>
<td>Industry Collaboration</td>
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**ITPP & ITTP 4.0 (2017 ~ )**

- Leading Global Innovation 4.0 (MSIT)
- Industry 4.0
- i-Korea 4.0

### Leading Global Innovation 4.0

- GII Network Expansion
- Technology Commercialization
- ICT Policy Research
- Intelligent Information Technology
- Global R&D
- Global Hub for Science & ICT Research & Collaboration

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**Global Innovation Network Building**
New Challenges as a global innovation leader in the Science and ICT

4th Industrial Revolution

- Hyper-connected Society with Intelligence
- ICT convergence with knowledge-information sector

VALUES

- ‘Preciseness’
- ‘Professional’
- ‘Rational’
- ‘Reliability’

Digitalization & Globalization

- ‘Inclusiveness’
- ‘Innovativeness’
- ‘Sustainability’
- ‘Smartness’
- ‘Professionalism’
- ‘Partnership’

Mission

To establish R&DB global platform to strengthen global Science and ICT innovation and international cooperation

Vision

Global cooperation Mecca to pull 4th industrial revolution and UN SDGs as a Science and ICT innovation driver
Data-driven innovation brings “the rise of platform economy”

The distinct characteristics of this new paradigm of innovation is that, the main “resources” are moved, exchanged, and generated in global level, without territorial limitation.
New ITPP (International Technology Professional Program)

To educate Global R&DB international Cooperation Innovation Leader, and

To establish ODA innovation cluster of the science and ICT international cooperation
Curriculums in Digital Transformation

1st: Global R&DB (Basic Knowledge)

2nd: Global R&DB Advanced I (Technology Management & Policy)

3rd: Global R&DB Advanced II (Technology Track based)

4th: Project based Research (Educational-Industry Collaboration)

Advanced Research and Project

Digital Transformation Technology Track

- AI
- AV
- IoT & 5G
- Bigdata
- Cloud
- Block Chain
- Smart city
- Smart manufacturing
- Smart Energy
- Appropriate Technology

Partnership building

Global Cooperation

Internship

Students – Industry relationship building

Industry demand based

Industry & Public

Doctoral Program

Students relationship building
International Research Activities

Research Collaboration
Global Innovation Seoul Forum 2019

Global R&D Innovation in 4th Industrial Revolution Era

Nov. 22 (Fri) 2019
Seoul National University Faculty Club 2F Convention Hall

The 9th
Green, Smart, Development & Vision 2019

Smart City Development and Digital Transformation

Nov. 26 (Tue) 2019, Hanwha Resort Haeundae
## International Research Activities

### International Workshop / Conference

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>2003.12.31</td>
<td>1st ~3rd ITPP Workshop <em>(Seoul)</em></td>
</tr>
<tr>
<td>2005.09.27 ~ 09.28</td>
<td>4th ITPP Workshop-IT Korea Symposium at Central Asia <em>(Tashkent)</em></td>
</tr>
<tr>
<td>2007.02.26</td>
<td>International Workshop on ICT Development <em>(Hanoi)</em></td>
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<tr>
<td>2007.09.27</td>
<td>International Workshop on ICT Development <em>(Tashkent)</em></td>
</tr>
<tr>
<td>2008.06.27 / 06.30</td>
<td>International Workshop on ICT Development <em>(Tunis, Cairo)</em></td>
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<tr>
<td>2009.11.23</td>
<td>International Workshop on ICT Development <em>(Tunis)</em></td>
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<tr>
<td>2010.07.28</td>
<td>SNU ITPP-KAIST ITTP International Conference <em>(Azerbaijan)</em></td>
</tr>
<tr>
<td>2010.11.10</td>
<td>SNU ITPP-KAIST ITTP International Conference <em>(Tunis)</em></td>
</tr>
<tr>
<td>2011.06.03</td>
<td>1st International Conference on ICT Development *(Lombok)-GSDV</td>
</tr>
<tr>
<td>2012.07.03 ~ 07.04</td>
<td>2nd International Conference on ICT Development *(Lombok)-GSDV</td>
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International Research Activities

**International Workshop / Conference**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>2013.12.23</td>
<td>3rd International Conference on Green, Smart, Development and Vision</td>
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<tr>
<td>2014.12.22 ~ 24</td>
<td>4th International Symposia on Green, Smart, Development and Vision</td>
</tr>
<tr>
<td>2015.12.23 ~ 24</td>
<td>5th International Symposia on Green, Smart, Development and Vision</td>
</tr>
<tr>
<td>2017.11.8 ~ 11. 9</td>
<td>7th International Symposia on Green, Smart, Development and Vision</td>
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<tr>
<td>2018.11.8 ~ 11. 9</td>
<td>8th International Symposia on Green, Smart, Development and Vision</td>
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<tr>
<td>2019.11.26</td>
<td>9th International Symposia on GSDV in Busan</td>
</tr>
<tr>
<td>2019.11.27</td>
<td>International Conference on STI and Development in Busan</td>
</tr>
<tr>
<td>2020.10.26 ~ 10. 30</td>
<td>Innovation Week</td>
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Industry Practice Activities

Internship & Industry Expert Seminar

KT SAT

LG U+

NH Bank
Industry Practice Activities

Externship, Project & Research Building
## Industry Collaboration (Oversea Business Supports)

<table>
<thead>
<tr>
<th>Project</th>
<th>Country</th>
<th>ITPP &amp; ITPP Participant</th>
</tr>
</thead>
<tbody>
<tr>
<td>F/S for Smart City in Tunisia</td>
<td>Tunisia</td>
<td>Dr. Hend Ben Hadji</td>
</tr>
<tr>
<td>F/S for electronic court system</td>
<td>Thailand</td>
<td>Mr. Arongkorn Chuamkratoke, Nantamano Thawarow</td>
</tr>
<tr>
<td>F/S for Security system development of MIC</td>
<td>Mongolia</td>
<td>Mr. Erdenebold Tumennast</td>
</tr>
<tr>
<td>F/S for Bandung Local Tax System</td>
<td>Indonesia</td>
<td>Mr. Irfan Firmansyah</td>
</tr>
<tr>
<td>F/S for IT Park Construction in Yachay</td>
<td>Ecuador</td>
<td>Mr. Andres David Navas Perrone</td>
</tr>
<tr>
<td>F/S for Quito Smart Transportation system</td>
<td>Ecuador</td>
<td>Ms. Sandra Elizabeth Robles Escobar</td>
</tr>
</tbody>
</table>
Leadership Building in the Global Digital Transformation

- Leading Global Innovation 4.0

International Cooperation Building

- Technology Commercialization
- International Project Study
- Global Networking GII Network

Global hub

Global R&DB
Leadership Building in the Global Digital Transformation

Global R&DB Regional Hub Building


'20.8 Central Asia Hub in Tashkent, Uzbekistan

'20.5 Eastern Europe Hub in Warszawa, Poland

'19.8 Africa Hub in Arusha, Tanzania

'19.8 Central and South America Hub in Sao Paulo

'19.12, Southeast Asia Hub in Danang, Vietnam
SNU Siheung Smart Campus Master Plan
SNU Siheung Smart Campus Master Plan
## SNU Siheung Smart Campus

### Siheung Campus Vision

Global Talent Growth and Leap Forward to the World’s Top university through Convergence and Mixed R&D

### Detailed Implementation Task

<table>
<thead>
<tr>
<th><strong>SNU Siheung Creation of Science Park</strong></th>
<th><strong>Founded by Siheung SNU Holdings Ltd.</strong></th>
</tr>
</thead>
</table>
| ▪ Involvement of private development projects to create a science park  
- Station 1: Medical Bio Health Convergence Complex  
- Station 2: World Bank Global Campus and other global education complexes  
- Station 3: Global Industrial-Academic Cooperation and Start-up Complex  
- Station 4: Living Support Complex |
| ▪ Implementing “Entrepreneurial Ecosystem”  
▪ Benchmarking of advanced universities |

<table>
<thead>
<tr>
<th><strong>Global Open Creating an Innovation Startup Park</strong></th>
<th><strong>Global Talent Training and International Education</strong></th>
</tr>
</thead>
</table>
| ▪ Creating a technology start-up complex for master’s and doctorate personnel  
  (creating a 1,000-person CEO) (Creation of the Global Open Innovation Center)  
▪ Start-ups in promising areas for technology commercialization  
  (Automatic driving vehicles, drones and unmanned vehicles, fine dust, smart cities, Next generation medical care, etc.)  
▪ Build smart factory manufacturing innovation center (produce element technology prototypes) |
| ▪ Creating the World Bank Campus Tower (Project to train personnel for international organizations)  
▪ Training international agricultural high-tech professionals (linked by Asian Development Bank)  
▪ Global Future Dental Clinic Training Center (Project to train international dentists)  
▪ Internationalized Education Program (Incentive Language Education, World in SNU Program) |

<table>
<thead>
<tr>
<th><strong>R&amp;D the formation of a convergence complex</strong></th>
<th><strong>Medical Bio the creation of a convergence industrial complex</strong></th>
</tr>
</thead>
</table>
| ▪ AI Energy Center in response to fine dust  
▪ Korean Popular Culture Archive Center  
▪ Future Mobility Research Center  
▪ Intelligent Unmanned Vehicle Research Center  
▪ Future Marine Technology Research Center |
| ▪ 800-bedded general hospital establishment  
▪ Treatment of intractable diseases such as brain identification and special senses, and operation of the Center for Brain Injury Bio Specialization  
▪ A Study on the Development and Integration of Medical Bio Industrial Complex  
▪ Promote the creation of Siheung Medical City |

<table>
<thead>
<tr>
<th><strong>Create Smart Campus</strong></th>
<th><strong>Community Contribution Education Cooperation</strong></th>
</tr>
</thead>
</table>
| ▪ Operation of the Smart Campus Integrated Management System  
▪ Creating a smart city data-driven business |
| ▪ Step-by-step expansion of the start-up education cooperation project (1,2,3 center)  
▪ Promoting education cooperation projects in Gyeonggi Province  
▪ Innovating public education and promoting online education projects |
The Partnership between WBG and Seoul National University (SNU)

• The partnership between the WBG and Seoul National University (SNU) will be to establish a sustainable platform to collaborate on innovation and technology for sustainable development, to:

- Capacity building of developing countries in innovation and technology
- Collaborate on research on priority policy & regulatory issues for developing countries
- Help developing countries access and adopt global innovative and technology-driven solutions to address their most pressing development challenges
Thank You!

Q&A