

# Brain Korea 21 Four

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# BK 21 Project

Project to both develop master's & doctorate-level human resources by supporting graduate students through scholarships, to help next generation graduate students to focus on their studies and research.

- 1st Project (1999~2005)
- 2nd Project (2006~2012)
- 3rd Project (2013.9~2020.8)
- **Project Four (Current, 2020.9~2027.8)**



# BK 21 Four

To foster creative, adventurous master's / doctorate-level human resources and world-class research-oriented Universities in response to social changes such as the 4th Industrial Revolution, and population decline.

## **BK 21 Four Main Focus**

- Train research personnel for national and social needs
- Create a stable academic and research-oriented environment for graduate schools
- Increase competitiveness by enhancing research quality
- Consolidate Graduate Education and Research

# BK 21 Four Vision & Goal

## VISION

**Cultivate World-class Research-oriented University**

## GOAL

- Enhance research capabilities in key academic fields and train next generations
- Reorganize the graduate school system and consolidate the graduate education

## Direction

### Enhance Research Competitiveness

- Expand the qualitative assessment of research results
- Support various fields related to research results such as economy, sociology, culture

### Train Master / Doctor -Level HR

- Expand the supporting size of masters, doctorate students
- Increase research scholarships to create research academic environments

### Consolidate Graduate Education and Research

- Consolidate curriculum and strengthen academic management
- Improve graduate school through new support fund

### Train National, Social Researchers

- Develop a new innovative human resources
- Concentrated training of research personnels in key industries of the country

# BK 21 Four

- **Period : 2020. 9 ~ 2027. 8 ( 7 years )**
- **Cost : \$ 2.6 Billion**
- **Participant: Research Group (Team)**
- **Project in Detailed Categories**



## 1) **Cultivating Future Human Resource :**

To enhance research capabilities in core academics (Science, Technology, Humanities) and to foster a new generation of scholars

## 2) **Cultivating Innovative Human Resource :**

To assist researchers with solving new industrial/social issues, and help them to lead innovations

### **8 Innovative Industries (`17.11)**

Smart factory / farm / city, Fin Tech, New Energy, Bio-Health, Drone, Future Health Care

### **13 Innovative Engineering Sector (`17.12)**

Big Data, Next-generation Communication, AI, Customized Healthcare, VR/AR, Intelligent Robot / Semiconductor, High-tech Materials, Innovative Medication, Renewable Energy, Smart City, Drone, Automated Driving

**\*Accomplishment Examples**

# 4th BK 21 Participating Research Group (Team)

No.	Research Group (Team)	Department	Supervisor	Sup's E-mail
1	Team for Intelligent Precision System (TIPS)	Department of Mechanical System Engineering	Kim Dae suk	dashi.kim@jbnu.ac.kr
2	Nano Convergence Institute for Innovative Energy Materials and Devices	Department of Nano Convergence Engineering	Hak-Yong Kim	nanoffice@jbnu.ac.kr
3	Educational Research Institute of Bionanotechnology and Bioconvergence Engineering	Department of Bionanotechnology and Bioconvergence Engineering	Dong Won Lee	dlee@jbnu.ac.kr
4	Education and Research Center for Semiconductor and Chemical Engineering	School of Semiconductor and Chemical Engineering	Yun Yeoung-Sang	ysyun@jbnu.ac.kr
5	Innovative Education Center for Hydrogen Energy Convergence Technology	Department of Energy Storage/Conversion Engineering	Dong Jin Yoo	djyoo@jbnu.ac.kr
6	Next Generation Flexible and Printable Electronics	Graduate School of Flexible&Printable Electronics	Kang Jae Wook	jwkang@jbnu.ac.kr
7	JIANT-IT Human Resource Development Center	Division of Electronics and Information Engineerin	Ji-Hoon Lee	jihoonlee@jbnu.ac.kr
8	Human resources fostering team for smart electronic information materials	Department of Electronic and Information Materials Engineering	Yeon-Tae Yu	yeontae@jbnu.ac.kr
9	Environmental Education and Research Center for Glocal Resources Circulation	Department of Environment and Energy	Kitae Baek	kbaek@jbnu.ac.kr
10	Green-bio human resource development for controlling hazards in plant & animal	Agricultural Convergence Technology	Kim Jae Su	jskim10@jbnu.ac.kr
11	21st Century Medical Science Creative Human Resource Development Center	Department of Medical Science	Jong Suk Kim	jsukim@jbnu.ac.kr
12	Innovative research and education center for integrated bioactive materials	Department of Bioactive Material Sciences	Yong Suk Jang	yongsuk@jbnu.ac.kr
13	Glocal Future Chemical Talent Education and Research Team	Department of chemistry	Jeung Gon Kim	jeunggonkim@jbnu.ac.kr

ENGINEERING, SCIENCE, MEDICINE

# 4th BK 21 Participating Research Group (Team)

No.	Research Group (Team)	Department	Supervisor	Sup's E-mail
1	Future Welfare Developing Human Resources for Community Innovation	Department of Socialwelfare	Yoon Myeong Sook	yoons64@jbnu.ac.kr
2	Social Solidarity and Integration in a Fragmented Society	Department of Sociology	Seol, Dong-Hoon	dhseol@jbnu.ac.kr
3	Group for Training Psychological Service Specialists Who are Required for Super-Aged Society	Department of Psychology	Lee Young Soon	leey@jbnu.ac.kr
4	Born to Glocal Frontier Leaders Program	Division of International Trade	Kim Min Ho	kimmh@jbnu.ac.kr
5	Expert-RACC (A Graduate Program for the Expert to Overcome Glocal Crisis through the Research and Application of Culture and Civilization)	Department of Cultural Anthropology and Archaeology	Yi, Jeong Duk	jdysi@jbnu.ac.kr
6	Program for Nurturing Leaders in Homo D-Biblos with the Aim to Practice Social Tolerance	Program for Nurturing Leaders in Homo D-Biblos with the Aim to Practice Social Tolerance	Kim Geon	godardkim@jbnu.ac.kr
7	English Studies of Diversity and Inclusion for Cultivating Next Generation Specialists of South and Southeast Asian Countries	English Language&Literature Department	Chin-wan, Chung	atchung@hanmail.net
8	Research platform for fostering future talents in the area of china-korea's correlated literature studies of "Jiyonghapil"(Unity of Knowledge & Use)	Department of Chinese Language & Literature	Choi Namgyu	namg@jbnu.ac.kr



## Application Requirement

### Affiliation

A student who belongs to the department or professors who are participating in the BK 21 project

### Applicable Term

- Within 2 years of the enrollment in a Master's program
- Within 4 years of the enrollment in a Doctor's program
- Within 6 years of the enrollment in a Integrated Master/Doctor's program

### Full-Time

A student who is able to dedicate 40 hrs per week for research/study activities in an affiliated research group(team), without any extra occupation

# Application Requirements & Project Benefits

## Benefits

- 1) Support a fellowship (Master: \$630 / Doctor: \$1200 / Certificate : \$900)
- 2) Support 50% of Tuition Fee
- 3) Other activities support : Research (Thesis Publication, Attending Conference, etc)

# Thank you !

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