

Soongsil University

G-LAMP

2026 NUU-SSU International Workshop

October 2, 2026

Presenter: Weekyung Kang

Director : Weekyung Kang

Director of G-LAMP Program
Dean of College of Natural Sciences



AI 승실 AX 비전 선포식

Native Soongsil

2025. 10. 17. (금) 13:30 ~ 16:30

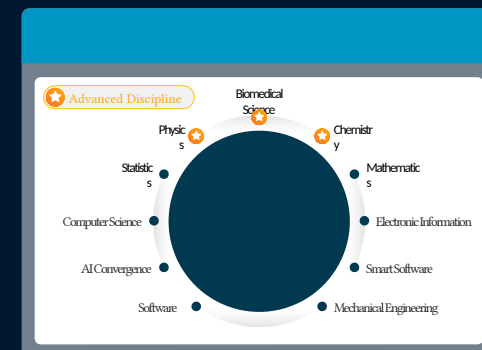
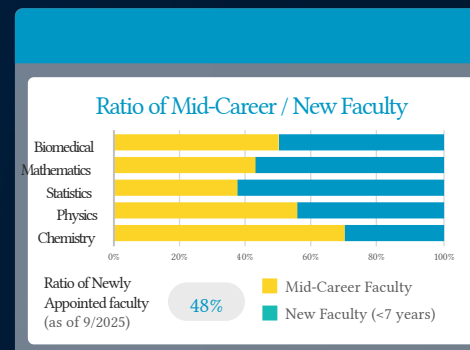
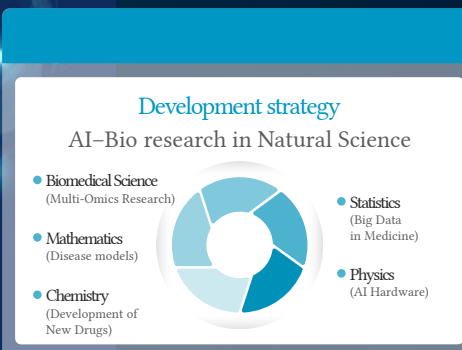
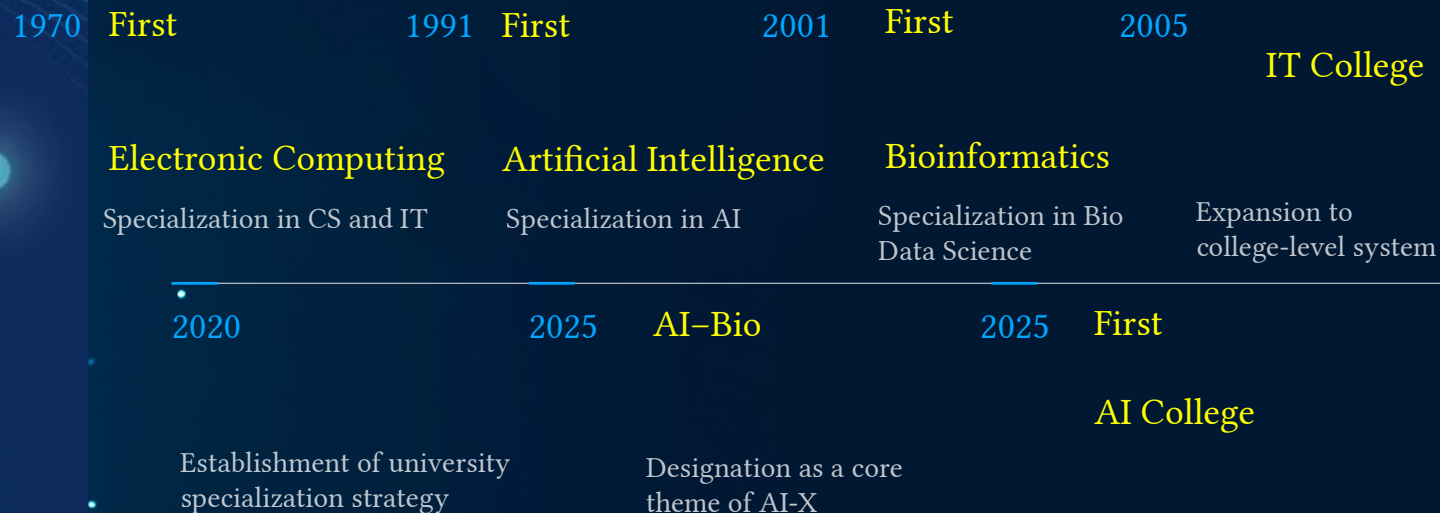
형남공학관 형남홀



Yoon-Jae Lee

President of
Soongsil University

Soongsil University Leadership in IT, AI and Bio Science



Vision

**Establishing a convergent research hub for transformative innovation
in fundamental natural sciences based on AI specialization**

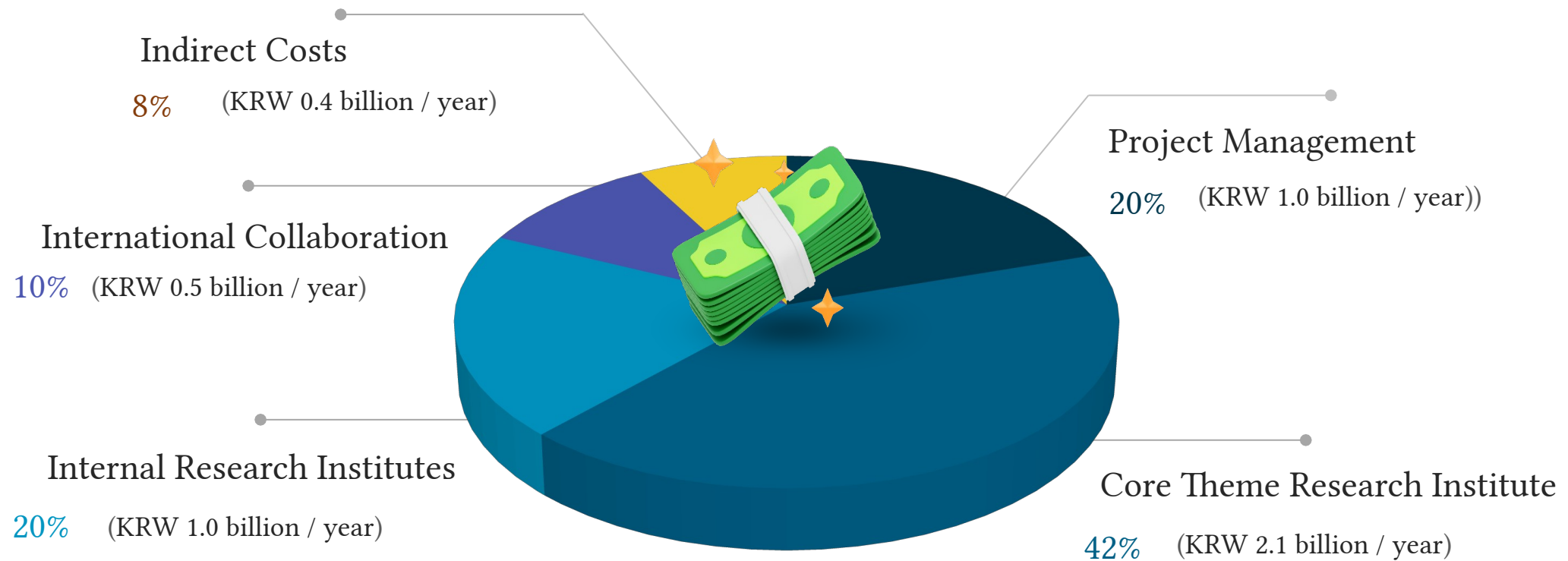
Core
Objectives

A

B

C

Core
Research
Institute



Research Themes

Research Objectives

Collaborative Research

AI-Based Medical Big Data Analysis : Population-level

Focus on precision disease prediction and response strategies

Research Project A

Principal Investigator Eunha Shim



Sub-Project
A1
AI-Based Mathematical Modeling

Principal Investigator
 Eunha Shim
Co-Investigators
Junil Kim
Wonil Chung
Juyoung Jeong

Sub-Project
A2
AI Statistical Genetics

Principal Investigator
 Wonil Chung
Co-Investigators
Seounghun Kang
Ha-Young Shin
Je-Keun Rhee
Juyoung Jeong

Sub-Project
A3
AI Multi-Modality

Principal Investigator
 Yoseob Han
Co-Investigators
Sangwook Lee
Jeongmin Han
Je-Keun Rhee

Sub-Project
A4
Public Health Medical Big Data

Principal Investigator
 Kyungdo Han
Co-Investigators
Eunha Shim
Jeongmin Han
Je-Keun Rhee

AI-Based Multi-Omics Analysis : Omics-level

Aim to understand disease mechanism and develop therapeutic approaches

Research Project B

Principal Investigator Junil Kim



Sub-Project
B1
Omics AI Agents

Principal Investigator
 Junil Kim
Co-Investigators
Ha-Young Shin
Gayong Shim
Jinhyuk Yun
Dohwan Lim

Sub-Project
B2
Virtual Cell AI Agents

Principal Investigator
 Jaeyong Ryu
Co-Investigators
Wonchull Kang
Junil Kim
Se Young Park

Sub-Project
B3
Molecular Mechanisms and Novel Targets

Principal Investigator
 Seounghun Kang
Co-Investigators
Jonghoon Kim
Jaeyong Ryu
Je-Keun Rhee

Sub-Project
B4
Target Discovery for Cancer

Principal Investigator
 Dohwan Lim
Co-Investigators
Jae-Pil So
Kyungdo Han
Je-Keun Rhee

Sub-Project
B5
Targeted therapy

Principal Investigator
 Jonghoon Kim
Co-Investigators
Wonchull Kang
Jaeyong Ryu
Jae Man Shin

AI Algorithm and Hardware : Technology-level

Provide AI-based technologies for optimizing bio research

Research Project C

Principal Investigator Jae-Pil So



Sub-Project
C1
Topological Bio-Specialized Algorithms

Principal Investigator
 Sangwook Lee
Co-Investigators
Ha-Young Shin
Taekoo Oh
Jinhyuk Yun

Sub-Project
C2
Lightweight AI Models

Principal Investigator
 Seong-heum Kim
Co-Investigators
Sun-Je Kim
Je-Keun Rhee
Yoseob Han
Jiwoo Hong

Sub-Project
C3
Bio-Semiconductor Devices

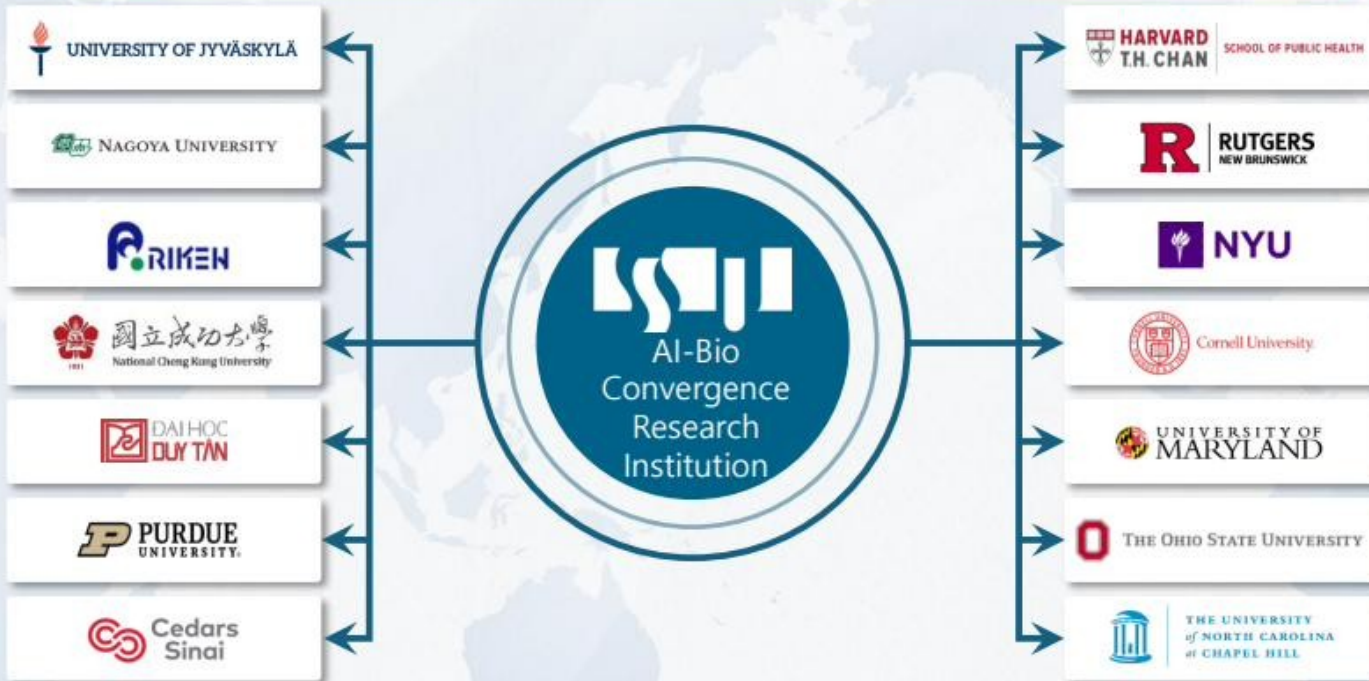
Principal Investigator
 Gayong Shim
Co-Investigators
Beom-Goo Kang
Jonghoon Kim
Jae Man Shin
Jiwoo Hong

Sub-Project
C4
Low-Power Neuromorphic Devices

Principal Investigator
 Jae-Pil So
Co-Investigators
Sun-Je Kim
Sol Kim
Hongseok Oh
Yunsang Lee

: LAMP Faculty

International Joint Research Institutions



Domestic Joint Research Institutions



Plan for Promoting International Collaboration

- Establish a global research network through MOUs/LOIs with 14 overseas research institutions across 5 countries, including USA, Finland, Japan, and Taiwan.
- Share advanced technologies and know-how through joint research and researcher exchanges with International joint research institutes.
- Expand sustainable international collaboration through international joint symposiums and academic conferences.

Joint Research, Overseas Dispatch, and Information Sharing





G-LAMP Project in Soongsil University aims to become a leading model for AI-convergent research and a key hub for shaping the future ecosystem of fundamental research.

Thank You!

