

Department of Biomedical Science and Engineering

Contact

<http://bmse.gist.ac.kr> Tel.: +82-62-715-5304
e-mail: bmse@gist.ac.kr



As a new multidisciplinary research and education program, department of Biomedical Science and Engineering(BMSE) was established in spring 2008 with the mission of promoting fusion researches in Biomedical Science and Engineering applications.

All faculty members of BMSE are recognized as world-class researchers in their special areas. The ongoing research topics are in the field of biomedical science and engineering such as optical system design for biomedical applications, neuro signal analysis, neuromodulation, study on sleep and consciousness, peroxisome and lipid metabolism, genomic medicine, and so on. BMSE invites extremely energetic applicants pursuing advanced degrees(M.S., Ph.D.) in multidisciplinary biomedical science and engineering. Specially, candidates who have Western or Oriental M.D.s as well as engineering or science backgrounds are strongly encouraged to apply.

With world-class faculty members and collaborating physicians in affiliated hospitals, we provide BMSE students top-class educational opportunities to become future professor, physician scientist, biomedical researcher, or CEO/CTO in medical fields and clinic.

Major Research Areas

- Biomedical Imaging & Photonic Therapeutics
- Micro/Nano Medical Devices
- Basic Biomedical Science
- Neuroscience & Neural Engineering
- Biomaterial & Tissue Engineering

Faculty

Name	Education	E-mail	Phone
Chung, Euiheon (Associate Professor)	Harvard-MIT Div. of Health Sci. & Technol. (Ph.D. Biomedical engineering)	ogong50@gist.ac.kr	+82-62-715-2753
Kim, Hyoung Ihl (Professor)	Chonbuk National Univ. (M.D., Ph.D. & Neurosurgery specialist)	hyoungihl@gist.ac.kr	+82-62-715-3234
Kim, Jae Gwan (Associate Professor)	Univ. of Texas, Arlington and UT South Western Medical Center Dallas (Ph.D. in Biomedical)	jaekim@gist.ac.kr	+82-62-715-2220
Kim, Tae (Assist. Professor)	Kyung Hee National Univ. (M.D., Ph.D., Psychiatric genetics)	bmse@gist.ac.kr	+82-62-715-5302,4
Kwon, Hyuk Sang (Associate Professor)	Massachusetts Institute of Technology (Ph.D., Mechanical engineering)	hyuksang@gist.ac.kr	+82-62-715-2403
Lee, Boreom (Assist. Professor)	Seoul National Univ. (M.D., Ph.D. Biomedical engineering)	leebr@gist.ac.kr	+82-62-715-3272
Park, Hansoo (Assist. Professor)	Seoul National Univ. (M.D., Ph.D. Biochemistry)	bmse@gist.ac.kr	+82-62-715-5302,4
Park, Raekil (Professor)	Chonnam Nat Univ. (M.D., Ph.D. Medicine)	rkpark@gist.ac.kr	+82-62-715-5361



Labs, Centers

Biomedical Imaging & Photo Therapeutics

3D Biomedical Image and Technology Lab.
Prof. Kwon, Hyuk-Sang <http://3DBIT.gist.ac.kr>

Biophotonics Lab.
Prof. Kim, Jae Gwan <http://biophotonics.gist.ac.kr>

Biomedical in-vivo Opto-scopy (BiO-scopy) Lab.
Prof. Chung, Euiheon <http://bio-scopy.gist.ac.kr>

Single molecule & Cellular dynamics Imaging Lab.
Prof. Lee, Gwangrog <http://sites.google.com/site/smcdilab/home/>

Micro/nano Medical Device & Robotic Surgery

MEMS & Nano Systems Lab.
Prof. Lee, Jong-Hyun <http://mems.gist.ac.kr>

BioMEMS Lab.
Prof. Yang, Sung <http://bmdl.gist.ac.kr>



Labs, Centers

Basic Biomedical Science

Lab. of Peroxisomes & Lipid Metabolism
Prof. Park, Raekil

Laboratory of Genomic Medicine
Prof. Park, Hansoo

Drug Discovery Lab.
Prof. Kim, Yong-Chul <http://life.gist.ac.kr/ddl>

Cell and Molecular Biology Lab.
Prof. Cho, Steve K. http://college.gist.ac.kr/profile/basic_ckr.html

Data Mining and Computational Biology Laboratory
Prof. Lee, Hyunju <http://combio.gist.ac.kr>

Neuroscience & Neural Engineering

Neuromodulation Lab.
Prof. Kim, Hyung-Ihl <http://neuro.gist.ac.kr>

Bio-Medical Signal & System Analysis (BMSSA) Lab.
Prof. Lee, Boreom <http://bmssa.gist.ac.kr>

Laboratory of Translational Neuroscience
Prof. Kim, Tae

Biomaterial & Tissue Engineering

Biomimetic Materials Lab (BML)
Prof. Lee, Jae Young <https://sites.google.com/site/biomaterialjyl/home>

Biomolecular and Biointegrated Materials Lab (BIMIL)
Prof. Kwon, Inchan <https://sites.google.com/site/kwonbiomaterialsgist/>



Student Interviews



Name: Thien Nguyen Thi
Nationality: Vietnam
Program: Ph.D.

How long have you been at GIST?

I started my master's course at GIST in August of 2013, and now I am doing my Ph.D. here.

Why did you decide to choose GIST?

When I was an undergraduate, I had a chance to attend a seminar introducing GIST. When I arrived at the seminar room, I was quite late. The room was full of people and there were no empty chairs. However, when a GIST professor saw me standing, he stood up and gave his chair to me. His action impressed me a lot, and at that moment I knew I wanted to work with a person like him. In addition, the seminar was so interesting that I decided to apply to GIST right after the seminar.

What is the best thing about GIST?

GIST gave me the feeling of being home. Living far away from home, the most difficult thing is to overcome homesick. However, when I am at GIST, I am with my second family. They are lab members, professors, staff, and friends. They always encourage me in doing my best research and living a happy life. Another great thing about GIST is that GIST supports everything students need, not only research facilities but also living expenses, sports, and accommodation facilities.

Are you satisfied with the support you receive at GIST?

The support from GIST is more than enough for me.

What are your future career plans after graduating from GIST?

After finishing my Ph.D. at GIST, I will apply for a post-doc position and continue doing my research. My ultimate goal is to be a professor.

What advice do you have for new applicants hoping to enter GIST?

An easy life is not an interesting life; challenges will help you grow up. As long as you do your best, success will smile on you. Welcome to GIST, a place for your dream to come true.

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