

# GRADUATE SCHOOL INHA UNIVERSITY

# Introduction of Laboratory

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# Scholarship Program of Inha Graduate School

	Glob	al Vision Scholarship			
Period	Amount	Eligibility			
		Ph.D. applicants: Those who are recommended by advisor during the application period			
Master 1 <sup>st</sup> ~ 4 <sup>th</sup> Ph.D. 1 <sup>st</sup> ~ 4 <sup>th</sup> Integrated 1 <sup>st</sup> ~ 8 <sup>th</sup>	Full amount of Entrance & Tuition fee	<ul> <li>Master/Integrated applicants: Those who are recommended by advisor and also meet one of two requirements below.</li> <li>① The advisor's employment period at Inha is less than three years Applicants</li> <li>② Applicants' undergraduate degree is from Inha University and CGPA of undergraduate level is 3.5 or above.</li> </ul>			
		Obligation			
※ Work as TA,LA		tive GPA should maintain 3.75 or above ing the regular period(Master & Ph.D. 1~4 semester, Integrated 1~8 semester)			
	Jungseok	International Scholarship			
Period	Amount	Eligibility			
	100% of Entrance & Tuition fee (TYPE A)	<ol> <li>A person who has obtained the qualification to receive 70% of scholarships related to Korean language and a person who meets English Language Eligibility of TYPE D</li> <li>A person who has obtained the qualification to receive 70% of scholarships related to English language and a person who meets Korean Language Eligibility of TYPE D</li> </ol>			
Master 1 <sup>st</sup> ~ 4 <sup>th</sup> Ph.D. 1 <sup>st</sup> ~ 4 <sup>th</sup> Integrated 1 <sup>st</sup> ~ 8 <sup>th</sup>	70% of Entrance & Tuition fee (TYPE B)	<ol> <li>TOPIK level 5~6 or</li> <li>Complete Korean Language Course level 6 which is established by universities in Korea or</li> <li>IBT TOEFL 92(IELTS 7, TOEIC 820) or above</li> </ol>			
integrateu i ··· O	50% of Entrance & Tuition fee (TYPE C)	<ol> <li>TOPIK level 4 or</li> <li>Complete Korean Language Course level 5 which is established by universities in Korea or</li> <li>IBT TOEFL 78(IELTS 6, TOEIC 740) or above</li> </ol>			
	30% of Entrance & Tuition fee (TYPE D)	<ol> <li>TOPIK level 3 or</li> <li>IBT TOEFL 71(IELTS 5.5, TOEIC 700) or above</li> </ol>			



Scholarship can be increased if students meet one of below two requirements.

- a. Submit materials designated by graduate school
  - Field of Engineering/Natural Science: 1 SCI or above (should be lead author)
  - Other field: 1 KCI or above (should be lead author)

b. Language Certificate: Submit valid language certificate which is higher type than previous one students submitted. (C TYPE to B TYPE, B TYPE ro A TYPE)

▶ Scholarship increasing from 70% to 100% is impossible(Maximum amount: 70%)

Obligation

% Cumulative GPA should maintain 3.75 or above



Name	Surname			Joe
성함	Given Name	Jaewan		
Position 직급	Assistant pr	ofessor	Gender 성별	□ Male
<b>Department</b> 소속학과	Architectural e departm		<b>Major</b> 소속전공	Building smart operation
Quarterit	Email		jjoe@	inha.ac.kr
Contact Information	Telephone		82-32	-860-7590
연락처 정보	Home Page	<u> </u>	https://sites.goog	le.com/view/inhasbsg
Monthly Stipend Proveded or Not 생활비 지급 의사	Yes		Required Manpower 필요인력 수	Master <u>1</u> / Ph.D
<b>Research Field</b> 연구분야 설명	Model-based predictive control Artificial intelligence / Machine learning based predictive building control Distributed optimization Prototype building modeling			
Three Recent Career Achievements 업적 리스트 (최근 세건)	<ul> <li>Virtual storage capability of residential buildings for sustainable smart city via model-based predictive control</li> <li>J Joe, J Dong, J Munk, T Kuruganti, B Cui / Sustainable Cities and Society 64, 102491</li> <li>Empirical Modeling of Direct Expansion (DX) Cooling System for Multiple Research Use Cases</li> <li>J Joe, P Im, J Dong / Sustainability 12 (20), 8738</li> <li>A model predictive control strategy to optimize the performance of radiant floor heating and cooling systems in office buildings</li> </ul>			
<b>Others</b> 기타사항	J Joe, P Karava / Applied Energy 245, 65-77 Looking for highly motivated (and also will be paid) graduate students. 2 and 4 journal publication would be expected/required by the end of the program for MS and PhD students.			



Name	Surname	Hwang			
성함	Given Name		Su	ngwon	
Position 직급	Profess	sor	Gender 성별	■ Male □ Female	
<b>Department</b> 소속학과	Chemical Eng	gineering	<b>Major</b> 소속전공	Process System Engineering	
Contact	Email		Sungwon.hw	vang@inha.ac.kr	
Information	Telephone		+82-(0)3	32-860-7461	
연락처 정보	Home Page		http://cej	pi.inha.ac.kr/	
Monthly Stipend Provided or Not 생활비 지급 의사	■ Yes [	⊐ No	Required Manpower 필요인력 수	Master / Ph.D	
Research Field 연구분야 설명	<ul> <li>Li-ion battery system modeling</li> <li>Fuel Cell system modeling</li> <li>Polymer synthesis process development and economic evaluation</li> <li>CO2 capture and utilization</li> <li>Hydrogen synthesis, delivery and storage system modeling</li> <li>Utilization of the waste plastics</li> <li>Biomass conversion to fuel, etc.</li> <li>Application AI to Process System Engineering</li> </ul>				
Three Recent Career Achievements 업적 리스트 (최근 세건)	Youngtak Jo, Gyuyeong Hwang, Dela Quarme Gbadago, Sungwon Hwang. (2022) Artificial neural network-based model predictive control for optimal operating conditions in proton exchange         metwork-based model predictive control for optimal operating conditions in proton exchange         membrane fuel cells, Journal of Cleaner Production         Jiyoung Moon, Dela Quarme Gbadago, Gyuyeong Hwang, Dongjun Lee, Sungwon Hwang. (2021)         Software platform for high-fidelity-data-based artificial neural network modeling and process         optimization in chemical engineering, Computers & Chemical Engineering         Hyeonggeon Lee, Niranjan Sitapure, Sungwon Hwang, Joseph Sang-II Kwon. (2021)         Modeling of Dendrite Formation in Lithium-ion Batteries, Computers & Chemical Engineering				
Others	Clean Energy Process Integration Lab. (CEPI)         Hwans, Sung Won         B.Sc. / Ph.D.: Manchester Univ., UK 2000 - 2004         Work: GS E&C, Aspentect. UDP (Honeywell)         2012 g : Dept. Chem. Eng., Inha Univ.         Ext. a declaration to construct the second s				
기타사항	Main Research Field       Development of Mydrogen Liquefaction process         Modeling and control of modular lithium-ion battery thermal system       Operation of M&S and PhD. curiculum for engineering system         Output       Development of CO2 co-electrolysis synthetic fuel production system       Other the second system         Of Modeling and economic evaluation of ammonia fuel SOFC output system for large ships       Soft of graduate major         Modeling and economic evaluation of ammonia fuel SOFC output system for large ships       Participation in project with industial         Modeling and economic evaluation of ammonia fuel SOFC output system for large ships       Participation in graduate major         Al-based software platform and digital twin design implementation       Main CFD mixed-based device design and scale up				



Name	Surname			Youk
성함	Given Name			Ji Ho
Position 직급	Profess	sor	Gender 성별	🛛 Male 🛛 Female
<b>Department</b> 소속학과	Chemical Eng	gineering	<b>Major</b> 소속전공	Polymer
Contact	Email		youk@	)inha.ac.kr
Information	Telephone		032-8	360-7498
연락처 정보	Home Page	https://che	emengsfpl.wixsite	.com/my-site/current-members
Monthly Stipend Provided or Not 생활비 지급 의사	⊠ Yes	□ No	Required Manpower 필요인력 수	Master / Ph.D1
	(1) Application of	Polymer-base	d Energy Materia	ils
Research Field 연구분야 설명	(2) Synthesis of Functional Polymers			
	Google Scholar: https://scholar.google.com/citations?user=0W1aX8YAAAAJ&hl=ko			
	Height-tunable replica molding using viscous polymeric resins, ACS MACRO			
Three Recent Career	LETTERS, 11, 4, pp. 428~433, 2022.			
Achievements	Toxic gas-free synthesis of extremely negative triboelectric sulfur copolymer blends via phase separation of fluorine-rich polymers, NANO ENERGY, 92, 106761, 2022.			
업적 리스트 (최근 세건)	Study on preparation methodology of zero-valent iron decorated on graphene oxide for highly efficient sonocatalytic dye degradation, JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 10, 107214, 2022.			
	(1) Application of I	Polymer-based	d Energy Material	S
	- Li-ion battery	separators wi	th high-temperatu	ure stability
	- Binders for Li	i-ion battery el	ectrodes	
	- Laser-Induce	d carbonizatio	n of polymer film	
	- High-perform	ance micro-su	percapacitors	
<b>Others</b> 기타사항	(2) Synthesis of F	unctional Poly	mers	
	- Efficiently controlled polymerization of block copolymers			
	- Synthesis of	•		
	- Surface modi		/mer	
	- Polymer film	-		
	- Synthesis of	flame-retardar	t monomers and	polymers



Name	Surname			Lee
성함	Given Name		Ye	ongjin
Position 직급	Assistant Pr	ofessor	Gender 성별	Male     Female
Department 소속학과	Chemistry and Enginee		<b>Major</b> 소속전공	Chemical Engineering
Contact	Email		yongjin.le	e@inha.ac.kr
Information 연락처 정보	Telephone		+82-32	2-860-7468
전력서 정도	Home Page	https	://sites.google.co	om/view/molsiminha/home
Monthly Stipend Proveded or Not 생활비 지급 의사	□ Yes	□ No	Required Manpower 필요인력 수	Master <u>2</u> / Ph.D1_
<b>Research Field</b> 연구분야 설명	<ul> <li>The overarching theme my research group pursues is the rational design and discovery of novel materials via an integrated approach of experiment, computational modeling, and machine learning/big data analysis. Some specific research projects are as follows.</li> <li>1) Inverse Design of Nanoporous Materials using Molecular Simulation combined with Machine Learning</li> <li>2) Inverse Design of novel polymers using Molecular Simulation combined with Machine Learning</li> <li>3) Computational Nanoengineering based on Accurate Atomistic Models</li> </ul>			
Three Recent Career Achievements 업적 리스트 (최근 세건)	<ul> <li>Xiangyu Zhang, Kexin Zhang, Hyeonsuk Yoo and Yongjin Lee*, "Machine Learning- Driven Discovery of Metal-Organic Frameworks for CO<sub>2</sub> Capture in humid condition", ACS Sustainable Chemistry &amp; Engineering 9, 2872 (2021).</li> <li>Xiangyu Zhang, Kexin Zhang, and Yongjin Lee*, "Machine Learning Enabled Tailor- Made Design of Application-Specific Metal Organic Frameworks", ACS Applied Materials &amp; Interfaces 12, 734 (2020).</li> <li>Sanfeng He, Hongliang Wang, Jing Cui, Cuizheng Zhang, Yi Yu, Yongjin Lee*, Tao Li*. "A General Way to Construct Micro- and Mesoporous Metal-Organic Framework- Based Porous Liquids", Journal of the American Chemical Society 141, 19708</li> </ul>			
Others 기타사항	(2019) Highly motivated students equipped with a research-oriented mindset are more than welcomed. For more information, please visit our website.			



Name	Surname		H	vang	
성함	Given Name		Ye-Jin		
Position 직급	Assistant Pr	ofessor	Gender 성별	□ Male ■ Female	
Department 소속학과	Chemical Eng	gineering	Major 소속전공	Organic semiconductors	
Contact	Email		yjhwang(	@inha.ac.kr	
Information	Telephone		+82-32	-860-7464	
연락처 정보	Home Page		https://cpslyjhwa	ng.wixsite.com/cpsl	
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes [	⊐ No	Required Manpower 필요인력 수	Master <u>0</u> / Ph.D1	
Research Field 연구분야 설명	<ul> <li>(1) π-Conjugated</li> <li>Design and synt</li> <li>Development of</li> <li>Structure-Prope</li> <li>Polymer/polymet</li> <li>(2) Organic Electro</li> <li>Device Physics</li> <li>Organic Photove</li> <li>(3) Flow Chemistr</li> </ul>	bone Engineering intronic structure intronic structure internolecular interaction Apphology Characterization of the sis of new p new synthetic rty-Performan- er blend nanom ponic Device Er and Fabrication oltaics, OLEDes y in Automated	conductors for Electronic toolymers route ce relationships horphology study ngineering on s, Transistors d Macro-reactor	<ul> <li>Side Chain Engineering</li> <li>Add functional group</li> <li>Add functional group</li> <li>Electronic structure</li> <li>Add functionality</li> </ul>	
Three Recent Career Achievements 업적 리스트 (최근 세건)	CHEMCIAL ENGI Mechanochemical Influence of the G 2020.	in flow: Effect NEERING JOU Degradation Bass Transition aracterization	ts of reaction pa JRNAL, 412, 128 of Amorphous P n Temperature, N of a highly crysta	arameters on molecular weight, 572, 2021. Polymers with Ball-Mill Grinding: MACROMOLECULES, 53, 7795, alline benzotriazole-selenophene	



Name	Surname		Shin		
성함	Given Name		Na	lechul	
Position 직급	Associate P	rofessor	Gender 성별	■ Male □ Female	
<b>Department</b> 소속학과	Chemical Eng	gineering	<b>Major</b> 소속전공	Semiconductor Nanostructures	
Contact	Email		<u>nshin@</u>	<u>)inha.ac.kr</u>	
Information	Telephone		+82-32	-860-7463	
연락처 정보	Home Page		www.the	shinlab.com	
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes I	■ Yes □ No Required Manpower Master / Ph.D 필요인력 수			
Research Field 연구분야 설명	<ul> <li>Vapor-based synthesis of low-dimensional semiconductor nanomaterials for hyper-scaling production</li> <li>1. Vapor deposition of organic-inorganic perovskite thin films</li> <li>2. Vapor-liquid-solid growth of van der Waals nanowires</li> <li>Chemical vapor deposition of 2D semiconductor materials for optoelectronics</li> </ul>				
Three Recent Career Achievements 업적 리스트 (최근 세건)	Sequential Surface Passivation for Enhanced Stability of Vapor-deposited Methylammonium Lead Iodide Thin Films, S. Han, SK. Hyeong, SK. Lee*, N. Shin*, Chem. Eng. J 439 135715 (2022). [https://doi.org/10.1016/j.cej.2022.135715]Br-induced Orientation Control of Pbl2 van der Waals Nanowires and Their Optoelectronics, L. Huh, H. Shim, N. Shin*, ACS Photonics 8 3291 (2021). [https://doi.org/10.1021/acsphotonics.1c01114]Interlayer Energy Transfer and Photoluminescence Quenching in MoSe2/Graphene van der Waals Heterostructures for Optoelectronic Devices, Y. Hwang, T. Kim, N. Shin*, ACS Appl. Nano Mater. 4 12034 (2021). [https://doi.org/10.1021/acsanm.1c02599]				
<b>Others</b> 기타사항	nanostructures u deposition, physic growth) for vario conversion, etc. The prospective s	sing vapor-ba al vapor depos us application student is expe	used crystal gro sition, evaporation is, including opt ected to participa	nd fabricating semiconductor wth methods (chemical vapor n & sputtering, vapor–liquid–solid oelectronics, photonics, energy te in developing instrumentation der Waals crystalline materials.	



Name	Surname			Baek	
성함	Given Name		In	In-Hwan	
Position 직급	Assistant Pr	ofessor	Gender 성별	■ Male  □ Female	
<b>Department</b> 소속학과	Chemical Eng	gineering	<b>Major</b> 소속전공	Semiconducting thin film process	
Contact	Email		<u>baek(</u>	Dinha.ac.kr	
Information 연락처 정보	Telephone		+82-32	2-860-7492	
전국지 영도	Home Page	htt	ps://sites.google	.com/view/thinfilm/home	
Monthly Stipend Proveded or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	Ph. D. 1	
<b>Research Field</b> 연구분야 설명	<ol> <li>Atomic layer deposition process for CMOS thin film devices and M3D application</li> <li>Development of vertical DRAM capacitor &amp; transistor</li> <li>Selective thin film deposition &amp; etching process</li> <li>Research on atomic layer deposition process mechanism of novel precursor</li> </ol>			$\frac{1}{2} \int_{0}^{0} \int_{0}^$	
Three Recent	Controlled orien		rostructure of p-ty ctric for improved	ype SnO thin film transistors with d performance	
Career Achievements	Cross-linked str		aligned p-type Sr ection at room te	S nanoplates for highly sensitive	
업적 리스트 (최근 세건)	High-performance thin-film transistors of quaternary indium–zinc–tin oxide films grown by atomic layer deposition				
Others 기타사항	grown by atomic layer deposition We are actively looking for highly motivated Graduate Students (Ph.D.) ar Undergraduate Interns with various backgrounds (chemical engineering, materia science, physics, chemistry, electrical engineering etc.).				



Name	Surname			Lee	
성함	Given Name		Joi	ong-Han	
Position 직급	Associate p	rofessor	Gender 성별	■ Male ■ Female	
<b>Department</b> 소속학과	Civil Engin	eering	<b>Major</b> 소속전공	Smart Structures and Materials	
Contact	Email	jh.lee@inha.	<u>ac.kr</u>		
Information	Telephone	+82-32-860-7	7564		
연락처 정보	Home Page	+82-10-4200	-3017		
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes	■ Required (How Many) □ No Manpower 필요인력 수 Master / Ph.D _1			
<b>Research Field</b> 연구분야 설명	<ul> <li>Smart Material and Structural System Lab. mainly focuses on</li> <li>1) Development and application of inspection and management systems based of data-driven and vision technologies</li> <li>1) development and application of smart materials to structures,</li> </ul>				
Career Achievements 업적 리스트 (Recent 3 ones)	Vision-based multipoint measurement systems for structural in-plane and out-of- plane movements including twisting rotation, SMART STRUCTURES AND SYSTEMS , 2017 Flexural capacity and crack-closing performance of NiTi and NiTiNb shape-memory alloy fibers randomly distributed in mortar beams, COMPOSITES PART B- ENGINEERING, 2018. Deep neural network for prediction of time history seismic response of				
<b>Others</b> 기타사항	bridges, STRUC	I OIAL LING			



Name	Surname			<b>→</b> Song	
Name 성함	Given Name	KI-IL			
Position			Gender		
직급	Profess	or	성별	Male  Female	
Department			Major		
소속학과	Dept of Civil Er	ngineering	, 소속전공	Geotechnical Engineering	
Contact	Email		ksong(	Dinha.ac.kr	
Information	Telephone		010-6	388-0449	
연락처 정보	Home Page				
Monthly Stipend Proveded			Required		
or Not	∎Yes [	] No	Manpower	Master <u>1</u> / Ph.D. <u>1</u>	
생활비 지급 의사	Lindorground on oo	and rock anging	필요인력 수		
	<ul> <li><u>Underground space</u></li> <li>Tunnel support d</li> </ul>				
			ing system and ana	alysis	
	<ul> <li>Structural health</li> </ul>	monitoring for t	unnel using NDT te		
	• Al aid design of				
Research Field	Sustainable develop			ing elastic and electromagnetic waves	
연구분야 설명			ion technique for ge		
	Seismic analysis				
	Building digital twin				
				er Physical Systems– Finite Element	
			tructure and tempor	rary works e stability monitoring	
				ering the degradation of ground and	
Three Recent	conci	ete lining, Marir	ne Georesources &	Geotechnology (2018)	
Career Achievements	Electrical resistiv			d-cement-inorganic binder mixture,	
업적 리스트			nmental Geotechnie		
(최근 세건)	Magnesium chloride and sulfate attacks on gravel-sand-cement-inorganic binder mixture, Construction and Building Materials (2018)				
	-	•	•	volved in many national scientific research	
	projects related to tunnelling. We have a strong background of numerical analysis and computational				
	geomechanics. The finite element programming and genetic algorithm-based optimization by using a				
	Visual Studio Developer that can design a pipe-roof pre-reinforcement system ahead of the tunnel face is supported by the Korean Advanced Institute of Science and Technology (KAIST) and Samsung. We				
	also have a fundamental knowledge on the nondestructive characterization techniques that use elastic				
	wave and electromagnetic wave propagation for the sustainable geotechnical development. Our main				
	-		•	machine learning 2) Automation of tunnel	
	support pattern design	for NATM tunnel	3) Geophysical chara	cterization for engineered geo-materials 4)	
	-			ho 4) Propagation of elastic wave in jointed	
Others	rock mass 5) Seismic performance evaluation of aged bridge foundation.				
기타사항	Non-Destructive Testing	Underground Technolo	99Y	Characterization of geomaterials with geophysical methods	
	Development of Applications with Elastic and Electromagnetic Wav	h 3D Numerical Analysis structures	visis on Geo- of Gas Hydra Sediment	Application of machine learning for geotechnics     Combination of IOT, Digital Twin,	
		Stochastic Numerica Tunnel Failure Mech	al Analysis on	Building information modelling, and HEM	
	Wave Propagation in	Tunnel Failure Mech			
	Heterogeneous Ground	EEM Costs Days		Iraulic-Mechanical	
		FEM Code Developr Tunnel Stability Ana		INHA University, Prof.     University of Nottingham     (Malaysia) Assistant Professor	
				KAIST, Civil & Enviorn. Eng., Ph.D.     NHA University, Civil ang., B.S.	
	Research Interests   INHA	University, Dept.	of Civil Engineering	1 (1)	
	Geome	chanics and		KI-IL SONG Ph.D. Professor of Geomechanics	
		Engineering		ksong@inha.ac.kr	



Name	Surname			Kim		
성함	Given Name		н	Hung Soo		
Position 직급	Professo	or	Gender 성별	■ Ma	le 🛛 Female	
<b>Department</b> 소속학과	Departmer Civil Engine		Major 소속전공	Hydro	logical Ecology	
Contact	Email sookim@inha.ac.k					
Information	Telephone		82-3	2-876-9783		
연락처 정보	Home Page		http://hyd	roeco.inha.ac.ł	<r <="" td=""></r>	
Monthly Stipend Provided or Not 생활비 지급 의사	■ Yes 🛛	No	Required Manpower 필요인력 수		low Many) _2_ / Ph.D1_	
Research Field 연구분야 설명	Climate Cl	<ul> <li>Hydrology</li> <li>Wetlands &amp; Ecology</li> <li>Climate Change</li> <li>Floods &amp; Droughts</li> </ul>				
Career Achievements 업적 리스트 (Recent 3 ones)	Climate Change Adaptation for Water Resources (2014~2019) Methodology Development for the Estimation and Prediction of Direct and Indirect Damages/Losses from Flood and Wind Disasters (2015~201 Impact Analysis of Global Climate System on Disasters and the National Economy (2017-2022)				iction of Direct ters (2015~2019) on	
Others 기타사항	Climate Change Climate Change Copula for Drought Analysis Under Climate Change Copula for Drought Analysis Under Climate Change Change Change Copula for Drought Analysis Under Climate Change Change Change Copula for Drought Analysis Under Climate Change	Wetlands & Wetlan Ecosy Hydrold Hydraulics i Evaluation Functions a	& Ecology       R         ds and       F         stem       Image: State of the state of t	ainfall Radar Rainfall Radar Networking	Chaos in Hydrology Fractal and Chaos Natural Phenomenation Itatural Phenomenation Phen	



Name	Surname			NA	
성함	Given Name		SEO	NHONG	
Position 직급	Associate Pr	rofessor	Gender 성별	■ Male □ Female	
Department 소속학과	Civil Engin	eering	Major 소속전공	Computational Geomechanics	
Contact	Email		<u>s.na@</u>	inha.ac.kr	
Contact Information	Telephone		+82-10	-860-7567	
연락처 정보	Home Page	ht	ttps://newdept.inh	a.ac.kr/p-sna/index.do	
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes [	⊐ No	Required Manpower 필요인력 수	Master / Ph.D 1	
	Our research grou	ıp specializes i	in computational	geomechanics, multiphysics, and	
	multiscale modeling of natural and engineering systems, with particular emphasis				
	on coupled thermo-hydro-mechanical processes in porous media. Our research				
	involves building and implementing computationally efficient and robust algorithms				
Research Field 연구분야 설명	by leveraging theoretical and computational frameworks to predict how multiphase				
	solids interact with diverse influences such as stress, deformation, heat source,				
	chemical species, and fluid flows. In addition, our research interests encompass				
	how material instabilities such as strain localization, soil liquefaction, damage, and				
	fracture occur and	l impact across	s different spatial	and temporal scales.	
Three Recent Career Achievements 업적 리스트 (최근 세건)	<ul> <li>Y.Guo and S. Na (2023), A computational framework based on explicit local chemical equilibrium for coupled chemo-hydro-mechanical effects on fluid-infiltrating porous media, Journal of Computational Physics, DOI: <u>10.1016/j.jcp.2023.112196</u>.</li> <li>H. Mohammadi and S. Na (2022), A Volume Averaging FEM-Based Fracture Model for Damage Process in Cohesive-Frictional Solids, <i>International Journal of Geomechanics (ASCE)</i>, DOI: <u>https://doi.org/10.1061/IJGNAI.GMENG-7181</u>.</li> <li>M.M. Kebria, S. Na, and F. Yu (2022), An algorithmic framework for computational estimation of soil freezing characteristic curves, <i>International Journal of Analytical Methods in Geomechanics</i>, <u>https://doi.org/10.1002/nag.3356</u>.</li> </ul>				
<b>Others</b> 기타사항	We have positions available for highly motivated graduate students (generally 1-2 per year) who are interested in developing novel computational models ultimately for sustainable development and resilient systems for infrastructure, energy, environment, and societal needs. If interested, please spend some time investigating the opportunities below and send your CV, transcripts and a brief statement of interest to Dr. SeonHong Na ( <u>s.na@inha.ac.kr</u> ).				



Name	Surname		١	WON	
성함	Given Name		Jong-Hoon		
Position 직급	Associate P	rofessor	Gender 성별	■ Male □ Female	
<b>Department</b> 소속학과	Electrical Future Vehi	-	<b>Major</b> 소속전공	Autonomous Navigation	
O a sta st	Email	jh.won@inha	.ac.kr		
Contact Information	Telephone	+82(0)32-860	)-7406		
연락처 정보	Home Page	Autonav.inha	.ac.kr		
Monthly Stipend Proveded or Not 생활비 지급 의사	∎ Yes	□ No Required (How Many) □ No Manpower 필요인력 수 Master1 / Ph.D1_			
	<ul> <li>Signal Processing, Estimation Theory and Applications</li> </ul>				
	<ul> <li>Kalman Filtering, Multi-Sensor Data Fusion and Target Tracking</li> </ul>				
	<ul> <li>Precise Positioning and Attitude Determination</li> </ul>				
Research Field 연구분야 설명	<ul> <li>Sensor Integration (e.g. GPS/INS/DR/etc.)</li> </ul>				
	<ul> <li>GNSS Receiver/Signal Design</li> </ul>				
	<ul> <li>Next Generation GNSS System Design and Analysis</li> </ul>				
	<ul> <li>Navigation/Communication System Applications to Next Generation Smart</li> </ul>				
	Vehicles				
	Montenbruck and 7)	P. J. G. Teunis	sen eds.) Spring	GNSS Handbook (eds. by O. er, 2017. (ISBN 978-3-319-42926-	
Career Achievements 업적 리스트 (Recent 3 ones)	Ground Test-bed	Environment of	f a Navigation Sa	ge for GPS L1 Signals in the tellite System 49/iet-rsn.2018.5294IET Digital	
	A Script Hook-based Ultra-Low Cost Driving Simulator for Development of Self- Driving Algorithms, Proceedings of the ION 2019 Pacific PNT Meeting April 8 - 11, 2019, Hilton Waikiki Beach, Honolulu, Hawaii			Pacific PNT Meeting	
<b>Others</b> 기타사항	Required skills - One of the followings : communication, control, software programming (Matlab, C/C++, python, etc.)				
	Please visit our w	eb-page ( <u>http:/</u>	/autonav.inha.ac	<u>kr</u> ) for more details	



Name	Surname		Kim			
성함	Given Name		Kwangki			
Position 직급	Assistant Professor		Gender 성별	Male		
Department 소속학과	Electrical I	Engineering	<b>Major</b> 소속전공	Control Engineering and Optimization		
Qualitati	Email		kwangki	.kim@inha.ac.kr		
Contact Information	Telephone		+82	32 860 7397		
연락처 정보	Home Page		http://	lics.inha.ac.kr		
Monthly Stipend Proveded or Not 생활비 지급 의사	Y	es	Required Manpower 필요인력 수	2 (PhD student only)		
<b>Research Field</b> 연구분야 설명	- - o Automo - -	otive control syster Vision-based auto Embedded model system optimizatio Computational me	p neural optimizer for control			
		Bayesian Inference				
	Vision-based Robo	t Localization, Planning	and Control	Autonomous aerial vehicles		
	Learning Theory ar	nd Applications		Intelligent control for robotics		
	Optimization Theo	ry and Applications		All engineering domains		
	IQC (Integral Quad	ratic Constraint) analysis	s and control	Nonlinear robust control for UAV/UMV		
	Sequential convex	optimization for contro	l policy	Portfolio optimization		
	Optimization (Convex optimization for control policies)					
"Service-Oriented Real-Time Energy-Optimal Regenerative Braking Strategy for O         Three Recent       and Autonomous Electrified Vehicles," IEEE Transactions on Intelligent Transporta         Career       Systems, Early access, 2021.						
Achievements 업적 리스트		entation and unified <i>Networks</i> , Volume S		is for dynamic artificial neural network 62, 2018.		
(최근 세건)	-		-	quential rate-distortion trade-offs," <i>IEEE</i> e 4, pages 1896–1910, 2017.		



	1			
Name	Surname			Kim
성함	Given Name	ne Insu		
Position 직급	Associate Pr	ofessor	Gender 성별	Male
Department 소속학과	Department of E Computer Eng		<b>Major</b> 소속전공	Electrical Engineering
Contact	Email		<u>insu@</u>	<u>)inha.ac.kr</u>
Information	Telephone		+82-32	2-860-7390
연락처 정보	Home Page	h	ttps://sites.google	e.com/view/inhapower
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes [	∃ No	Required Manpower 필요인력 수	Master / Ph.D1
<b>Research Field</b> 연구분야 설명	<ul> <li>Development of transmission and distribution power system steady and transient state analysis algorithms (e.g., power flow, short-circuit, and harmonic analysis algorithms for AC and HVDC grids)</li> <li>Power system optimizations and AI techniques (e.g. reliability, optimal allocation of distributed generators, hosting capacity of renewable energy resources, deep and reinforcement learning algorithms for energy systems)</li> <li>Developing algorithms for combined heat and power generation</li> </ul>			
Three Recent Career Achievements 업적 리스트 (최근 세건)	<ul> <li>[22] Insu Kim, "Part 1: A New Single-Logarithmic Approximation of Carson's Ground-Return Impedances," IEEE Access, Vol. 9, pp. 103850 - 103861, July 15, 2021. DOI: 10.1109/ACCESS.2021.3097377</li> <li>[16] Insu Kim, "A calculation method for the short-circuit current contribution of current-control inverter-based distributed generation sources at balanced conditions," <i>Electric Power Systems Research</i>, Vol. 190, January 2021. https://doi.org/10.1016/j.epsr.2020.106839</li> <li>[10] Insu Kim, "Short-circuit analysis models for unbalanced inverter-based distributed generation sources and loads," <i>IEEE Transactions on Power Systems</i>, Vol. 34, No. 5, pp. 3515-3526, September 2019.</li> </ul>			
Others 기타사항	An ideal candidate is a graduate student or postdoctoral fellow who has a good understanding and experience of the following: (a) power-flow algorithms such as Newton-Raphson, decoupled, Gauss-Seidel, and backward and forward sweep methods (b) fault analysis or short-circuit algorithms using the sequence network method (c) some prior experiences in programming in MATLAB and Python. (d) developing the algorithms in MATLAB and publishing highly qualified journal papers are also the most important aspects of the position. The following topics will be plus but not required: (a) machine learning (genetic algorithm, particle swarm optimization, and so on)			



Name	Surname			Kim	
성함	Given Name		Daeyu		
Position 직급	Profess	sor	Gender 성별	■ Male  □ Female	
Department 소속학과	Electrical Eng	gineering	Major 소속전공	IoT Sensor, Optics, Wearable devices	
Contact	Email		dyukim	@inha.ac.kr	
Contact Information	Telephone		82-32	-860-7394	
연락처 정보	Home Page		http://mell	ab.inha.ac.kr/	
Monthly Stipend Provided or Not 생활비 지급 의사	■ Yes	⊐ No	Required Manpower 필요인력 수	(How Many) Master2 / Ph.D2	
	1. loT	sensors for sn	nart healthcare ar	nd smart factory applications	
Research Field	:	2. Optical ima	aging system with	HW and control SW	
연구분야 설명		3. Image ar	alysis using deep	o learning algorithm	
		4. LIDAF	R sensors for auto	onomous vehicle	
	Automatic Quantification of Anterior Lamina Cribrosa Structures in Optical				
	Coherence Tomography Using a Two-Stage CNN Framework. Sensors. 2021				
Career Achievements	Jung S, Kim DY. Noninvasive Flow Monitoring in Simple Flow Phantom Using				
업적 리스트 (Recent 3 ones)	Resistive Strain Sensors. Sensors. 2021, 21;21(6):2201.				
(Recent 5 ones)	Hydrophobic Paper-Based SERS Sensor Using Gold Nanoparticles Arranged on				
	Graphene Oxide Flakes. Sensors. 2019, 11;19(24):5471.				
	Our laboratory n	nembers of 3	postdocs and 3	graduate students are working	
	on government	and industri	al research pr	ojects supported by National	
	Research Foundation of Korea, BK21-Plus as well as Samsung Science &				
	Technology Foundation.				
Others 기타사항					



Name	Surname		С	hang	
성함	Given Name		Ку	vungHi	
Position 직급	Profes	sor	Gender 성별	✓ Male □ Female	
<b>Department</b> 소속학과	Electronic En	gineering	Major 소속전공	Mobile Communications	
Contact	Email		khchang	@inha.ac.kr	
Information	Telephone		+ 82-32	-860-8422	
연락처 정보	Home Page		https://sites.goog	gle.com/view/mtrl-lab	
Monthly Stipend Proveded or Not 생활비 지급 의사	✓ Yes	□ No	Required Manpower 필요인력 수	Master <u>3</u> / Ph.D <u>2</u>	
	- 3GPP LTE / 5G /	6G (Non-Terrest	trial NW, NW Intellio	gence) RTT	
Dessereh Field	- MANET (FANET:	UAV Monitoring	, UAM, VANET: Aut	onomous Vehicle, C-V2X)	
Research Field 연구분야 설명	- Underwater Network (Link Adaptation), Cross-layer Design				
	- AI (ML/DL/RL) & Big Data Applications, Decision Making Support System (using				
	Text/Speech/Sou	nd/Image/Video	), Artificial General	Intelligence (AGI)	
	Cooperative resource	ce management	for C-V2I communi	cations in a dense urban environment,	
Three Recent	Vehicular Communi	cations, 2020. 0	8.		
Career Achievements	3D optimal surveillance trajectory planning for multiple UAVs by using particle swarm				
업적 리스트	optimization with surveillance area priority, IEEE Access, 2020. 05.				
(최근 세건)	SMART-Navigation over pilot LTE-Maritime: Deployment and co-existence with PS-LTE, IEEE				
	Communications Magazine, 2019. 09.				
Others 기타사항	Sentimization megazine, zero del				



Name	Surname	Kim			
성함	Given Name		Deok-Hwan		
Position 직급	Full Profe	essor	Gender	🞽 Male 🛛 Female	
<b>Department</b> 소속학과	Electrical &C Enginee		Major	Electronic Engineering	
	Email	deokhwan@i	deokhwan@inha.ac.kr		
Contact Information	Telephone	(+82) 10-466	0-3602		
연락처 정보	Home Page		-	Intelligence&Embedded System	
Monthly Stipend	∐ Yes	□ No	Required	(How Many)	
<b>Proveded or Not</b> 생활비 지급 의사	(enough st	ipend)	<b>Manpower</b> 필요인력 수	Master _1_ / Ph.D2	
	- Embedded Sys	tem: Design a	nd implementatio	n of embedded systems, IoT	
	Devices, Edge Devices, Smart home & Smart City with Deep Learning(AI) and				
	Machine Learning(ML).				
	- Artifical Intelligence: Deep Learning Algorithms and Applications for				
	Embedded Devices, Robot Interface and Robot Operating Systems Platform,				
	cloud-based software defined storage				
	- Human Computer Interaction/Intelligent Robot: XVoice: Multi-Modal Voice				
Research Field 연구분야 설명	Meta Learning, Emotion and Event/Activity Recognition for Robot Control,				
	Sensing and Actuator				
	- ADAS / Autonomous Driving: Participate in the future vehicle student training				
	program and train people who are interested in autonomous vehicles.				
	BrainKorea21PLUS Retional Research Foundation of Korea				
	Keit         한국산업기술평가관리원         KEA           Korea Evaluation Institute of Industrial Technology         KEA				
	BlockChain-enabl	ed Approach f	or Big Data Proc	cessing in Edge Computing, IEEE	
Career	Internet of Things	, 2022 (SCIE II	= 9.936)		
Achievements 업적 리스트	MS scheduler: N	New, scalable,	and high-perf	formance sparse AVX-2 parity	
(Recent 3 ones)	encoding and de	coding techni	que for erasure	e-coded cloud storage systems,	
	Future Generation	n Computing S	Systems 2022, (S	SCIE IF 7.9)	



	Currently, there are four foreign students (PhD Candidates). We provide enough stipends through BK21-Plus and other government and industrial projects.
Others 기타사항	Required Skills: - One of the followings: software programming (Matlab, Python, C/C++ etc.) Linux, Algorithm & Data Structure, Signal Processing



Name	Surname			Choi	
성함	Given Name		Young-kyu		
Position 직급	Assistant Pro	ofessor	Gender 성별	🖾 Male 🛛 Female	
<b>Department</b> 소속학과	Electrical & Co Engineer	•	<b>Major</b> 소속전공	Computer Architecture / CAD	
Contact	Email		ykc@	inha.ac.kr	
Information 연락처 정보	Telephone				
연락서 경도	Home Page		https://sites.goo	gle.com/view/ykchoi	
Monthly Stipend Provided or Not 생활비 지급 의사	⊠ Yes [	⊐ No	Required Manpower 필요인력 수	Master: 2 / PhD: 2	
	Acceleration of Quantum Computing Work Field-Programmable Gate Arrays (FPGAs)			e.g. mapping, simulation) using	
Research Field 연구분야 설명	Compute Express Link (CXL) and High-Bandwidth Memory (HBM) Aware Accelerator Design				
	Improving Programmability with High-Level Synthesis (HLS)				
	Design Automation (CAD), Machine Learning for CAD (MLCAD), and High- Performance Computing (HPC)				
	YouTube lecture series on HLS: https://youtu.be/6Jn8Vj3Hk5Y?list=PLf4U4tpbjjz7x_bsG3sBEuXgVQPZfWJgW				
Three Recent	"FPGA Acceleration of Probabilistic Sentential Decision Diagrams with High-Level Synthesis," ACM Trans. Reconf. Tech. and System (Top FPGA journal), 2023.				
Career Achievements 업적 리스트	"HBM Connect: High-Performance HLS Interconnect for FPGA HBM," ACM/SIGDA Int. Symp. Field-Programmable Gate Arrays (Top FPGA conference), 2021.				
(최근 세건)	"FLASH: Fast, ParalleL, and Accurate Simulator for HLS," IEEE Trans. Computer- Aided Design of Integrated Circuits and Systems (Top CAD journal), 2020.				
	International studer	nts are welcom	ned.		
Others	All students will be	supported witl	n research fundin	g.	
<b>Others</b> 기타사항	Decent English skil				
				digital system design, computer lantum computing, algorithm, or	



Name	Surname			Song	
성함	Given Name		Byung Cheol		
Position 직급	Profess	sor	Gender 성별	■ Male	Female
Department 소속학과	Electronic En	gineering	<b>Major</b> 소속전공		Vision, Deep age Processing
Contact	Email bcsong@inha.ac.kr				
Information	Telephone		+82-32	2-860-7413	
연락처 정보	Home Page		https://cv	vip.inha.ac.kr	
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes [	⊐ No	Required Manpower 필요인력 수	Master <u>0</u>	/ Ph.D2
Research Field 연구분야 설명	Computer vision         -       Human-computer interaction         -       Image-to-image translation         -       Object detection / segmentation         Deep learning / machine learning         -       Light-weighting convolutional neural networks         -       Learning algorithm of deep neural networks         -       Image processing         -       Image restoration / enhancement / segmentation				
Three Recent Career Achievements 업적 리스트 (최근 세건)	<ul> <li>"Fast Filter Pruning via Coarse-to-Fine Neural Architecture Search and Contrastive Knowledge Transfer", IEEE Transactions on Neural Networks and Learning Systems (IF: 10.4), 2024</li> <li>"Optimal Transport-based Identity Matching for Identity-invariant Facial Expression Recognition", Advances in Neural Information Processing Systems (NeurIPS), 2022</li> <li>"Emotion-aware Multi-view Contrastive Learning for Facial Emotion Recognition",</li> </ul>				
Others 기타사항	European Conference on Computer Vision (ECCV), 2022				



Nome	Surname			Yoo
Name	Given Name		Sang-Jo	
Position	Profess	sor	Gender	■ <u>Male</u> □ Female
<b>Department</b> 소속학과	Informatio Communi		Major	Communication and Networking
Contact	Email	sjyoo@inha.a	ac.kr	
Information	Telephone	+83-32-860-8	3304	
연락처 정보	Home Page	http://multine	t.inha.ac.kr	
Monthly Stipend Proveded or Not	∎ <u>Yes</u>	□ No Required (How Many) Manpower Master2 / Ph.D		
Research Field	Laboratory) mainl machine learning- technologies for w networks (WSN), networks, UAV fly networks, and ney cognitive radio ne current research p - Wireless ser Internet of Th protocol des - Al-based IoT Networking A	<ul> <li>Manpower Master _2 _ / Ph.D</li> <li>We (Multimedia Network</li> <li>Laboratory) mainly research the machine learning-based network technologies for wireless sensor networks (WSN), vehicular ad-hoc networks, UAV flying ad-hoc networks, and next generation cognitive radio networks. Our current research projects include:</li> <li>Wireless sensor network and Internet of Things (IoT) protocol design</li> <li>Al-based IoT and UAV Networking Architecture</li> <li>Manpower Master _2 / Ph.D</li> </ul>		
Career Achievements (Recent 3 ones)	Wireless Sensor N A Novel Energy S Sensor Networks, PSO-based Dyna	Q-Learning-Based Data-Aggregation-Aware Energy-Efficient Routing Protocol for Wireless Sensor Networks, IEEE ACCESS, 2021 A Novel Energy Supply Strategy for Stable Sensor Data Delivery in Wireless Sensor Networks, IEEE Systems Journal, 2020 PSO-based Dynamic UAV Positioning Algorithm for Sensing Information Acquisition in Wireless Sensor Networks, IEEE ACCES, 2019		
Others	We are very wel learning, Al-based			are really interested in machine t.



Name	Surname			Park	
성함	Given Name		Jae	Jae-Hyeung	
Position 직급	Profes	sor	Gender 성별	⊠ Male   □ Female	
<b>Department</b> 소속학과	Informatic Communication		<b>Major</b> 소속전공		
Contact	Email	jh.park@inha	a.ac.kr		
Information 연락처 정보	Telephone	+82-32-860-	7432		
전력자 경도	Home Page	http://3dlab.ir	nha.ac.kr		
Monthly Stipend Proveded or Not 생활비 지급 의사	⊠ Yes	□ No	Required Manpower 필요인력 수	(How Many) Master _1 / Ph.D1	
Research Field 연구분야 설명	<ul> <li>Optics for Augmented Reality (AR) Displays (Head mounted displays, Near eye displays, Vehicle head up displays)</li> <li>Holographic capture and displays</li> <li>Computer Generated Hologram</li> <li>Light field capture and displays</li> </ul>				
Career Achievements 업적 리스트 (Recent 3 ones)	<ul> <li>JH. Park, M. Askari, "Non-hogel-based computer generated hologram from light field using complex field recovery technique from Wigner distribution function," Optics Express, vol. 27, no. 3, pp. 2562-2574, (2019).</li> <li>JH. Park, SB. Kim, "Optical see-through holographic near-eye-display with eyebox steering and depth of field control," Opt. Express vol. 26, no. 21, pp. 27076-27088 (2018).</li> <li>SB. Kim and JH. Park, "Optical see-through Maxwellian near-to-eye display with an enlarged eyebox," Optics Letters, vol. 43, no. 4, pp. 767-770, (2018).</li> </ul>				
Others 기타사항					



Name	Surname			Seo	
성함	Given Name		Yeongkyo		
Position 직급	Assistant Professor		Gender 성별	Male	
<b>Department</b> 소속학과	Informatic Communication		Major 소속전공	VLSI and Circuit Design	
O a sta st	Email	yeongkyo@	yeongkyo@inha.ac.kr		
Contact Information	Telephone	+82 32-860	)-7415		
연락처 정보	Home Page	https://sites	.google.com/vie	w/circuits-lab	
Monthly Stipend Provided or Not 생활비 지급 의사	Yes		Required Manpower 필요인력 수	Master _1_ / Ph.D1_	
<b>Research Field</b> 연구분야 설명	<ul> <li>Circuits and Systems Lab is a part of the Department of Information and</li> <li>Communication Engineering at Inha University, Incheon, South Korea, under</li> <li>the direction of Prof. Yeongkyo Seo. We focus on high performance and</li> <li>energy efficient custom digital circuit design by Silicon and non-Silicon</li> <li>technologies. Also, our research interests focus on In-Memory Computing</li> <li>Devices, Circuits, and Systems using CMOS and post-CMOS Memories for</li> <li>Neuromorphic Applications.</li> <li>Our group currently has multiple openings to hire graduate students as well</li> <li>as undergraduate research interns who are interested in custom digitial</li> <li>circuit design for neuromorphic computing system. If you are interested,</li> <li>please send an email with your brief resume to Prof. Yeongyko Seo</li> </ul>				
Career Achievements 업적 리스트 (Recent 3 ones)	<ul> <li>Y. Seo, K-W. Kwon, X. Fong, and K. Roy, "High Performance and Energy-Efficient On-Chip Cache using Dual Port (1R/1W) Spin-Orbit Torque MRAM," IEEE Journal of Emerging and Selected Topics in Circuits and Systems, vol. 6, no. 3, pp. 293-304, Sep. 2016.</li> <li>Y. Seo, K-W. Kwon, and K. Roy, "Area-Efficient SOT-MRAM with a Schottky Diode," IEEE Electron Device Letters, vol. 37, no. 8, pp. 982-985, Aug. 2016.</li> <li>Y. Seo, and K. Roy, "High-Density SOT-MRAM Based on Shared Bitline Structure," IEEE Transactions on Very Large Scale Integration Systems, vol. 26, no. 8, pp. 1600-1603, Aug. 2018.</li> </ul>				
<b>Others</b> 기타사항					



Name	Surname			Lee	
성함	Given Name	Hanho			
Position 직급	Profess	sor	or Gender 성별 ■□ Male □ Female		
Department 소속학과	Informatio Communicat		<b>Major</b> 소속전공	Digital System Design, VLSI architecture design	
Contact	Email		hhlee@	)inha.ac.kr	
Contact Information	Telephone		+82-32	2-860-7449	
연락처 정보	Home Page		soc.ii	nha.ac.kr	
Monthly Stipend Proveded or Not 생활비 지급 의사	∎⊡ Yes	□ No	Required Manpower 필요인력 수	(How Many) Master1 / Ph.D1	
	Depending on the	student's exp	erience and inter	ests, the student will start working	
	e.g. in one of the following fields:				
	- Cryptography algorithm and architectures for post-quantum cryptography				
	- Hardware cryptography architectures for Homomorphic Encryption				
Research Field	- Hardware architecture for artificial intelligent				
연구분야 설명	- FPGA-based Machine Learning				
	Detailed lab information is in <u>http://soc.inha.ac.kr,</u>				
	The research topics require either 1) excellent programming skills and				
	comprehension (or interest) of digital signal processing, communications, computer				
	architectures, OR	2) expertise in	C/C++, Verilog H	IDL coding, and FPGA design.	
Three Recent		-		for CRYSTALS-Dilithium," IEEE Papers, Dec. 2023.	
Career Achievements	"Configurable Memory-Based NTT Architecture for Homomorphic Encryption," IEEE				
업적 리스트	Transactions on Circuits and Systems II: Express Briefs, Oct. 2023.				
(최근 세건)	"Area-Efficient Number Theoretic Transform Architecture for Homomorphic Encryption," IEEE Transactions on Circuits and Systems I: Regular Papers, March 2023.				
L	Benefits:				
Others		dates can det f	ull tuition waive fo	or Master and PhD periods.	
기타사항	2) Monthly suppor	•			
	, , , , , ,	( <b>0</b> )	ational conference	es oversea paid by research fund.	



Name	Surname			Lee	
성함	Given Name	Mun-Kyu			
Position 직급	Profess	Professor		■ Male □ Female	
<b>Department</b> 소속학과	- Computer Engin - Artificial Intellige	-	<b>Major</b> 소속전공	Information Security	
Contact	Email	mklee@inha.ac.kr			
Information	Telephone	+82-32-860-7456			
연락처 정보	Home Page	http://islab.in	ha.ac.kr		
Monthly Stipend Proveded or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	(How Many) Integrated(MS+Ph.D) / Ph.D: 2	
	Privacy-Preservin	g Applications	for Blockchain (Z	ero Knowledge Proof)	
	Artificial Intelligen	ce for Security	/ Security for Arti	ficial Intelligence	
Research Field	Privacy-Preserving Data Analysis (Homomorphic / Functional Encryption)				
연구분야 설명	Security Protection for Smart Grid and Energy Trading Systems				
	Implementation and Optimization of Cryptographic Algorithms				
	Secure Authentication (Password and Biometrics) for Smart Devices				
Three Recent	HETAL: Efficient Privacy-preserving Transfer Learning with Homomorphic Encryption, 40th International Conference on Machine Learning (ICML 2023), July 2023				
Career Achievements 업적 리스트	Comments on "PassBio: Privacy-Preserving User-Centric Biometric Authentication" IEEE Transactions on Information Forensics and Security, vol. 17, pp 2816-2817, August 2022				
(최근 세건)	Practical Privacy-	IEEE Transac		for Smartphones Secure against ion Forensics and Security, vol.	
Others 기타사항	<ul> <li>Ongoing Research Projects</li> <li>Development of cryptographic optimization and application technology for providing confidentiality on blockchains <ul> <li>Transaction privacy on blockchain using functional encryption</li> <li>Secure transaction using zkSNARK (zero-knowledge Succinct Non-interactive Argement of Knowledge)</li> <li>Development of statistical analysis algorithm and module using homomorphic encryption based on real number operation <ul> <li>Al and machine learning secured by cryptographic algorithms</li> <li>BK21 project <ul> <li>Scholarship program for graduate students</li> <li>IITP AI center</li> </ul> </li> </ul></li></ul></li></ul>				



Name	Surname			LEE	
성함	Given Name		Sang-Chul		
Position 직급	Profess	sor	Gender 성별	■ Male □ Female	
<b>Department</b> 소속학과	Computer En	gineering	Major 소속전공	Artificial Intelligence / Computer Vision	
Contact	Email	sclee@inha.ac.kr			
Information	Telephone		+82 32	2 860 7442	
연락처 정보	Home Page		http://image	einfo.inha.ac.kr/	
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes [	□ No	Required Manpower 필요인력 수	Master <u>0</u> / Ph.D. <u>1</u> / MS/Ph.D. <u>3</u>	
<b>Research Field</b> 연구분야 설명	Our main research interest is in computer vision and artificial intelligence including: - Medical Artificial Intelligence - Machine learning (deep learning) for vision - High-level Human-Computer interaction - Content based video processing - Applications of artificial intelligence				
Three Recent Career Achievements 업적 리스트 (최근 세건)	<ul> <li>"Morphological Multi-cell Discrimination for Robust Cell Segmentation," in IEEE Access, vol. 8, pp. 49837-49847, 2020.</li> <li>"Cell segmentation for quantitative analysis of anodized TiO2 foil", in IEEE Transactions on Industrial Informatics, 15(5), pp. 2828-2837, IEEE, 2019.</li> <li>"Nucleus Segmentation Using Gaussian Mixture based Shape Models", in IEEE Journal of Biomedicaland Health Informatics, vol. 22(1), pp. 235-243, IEEE, 2018.</li> </ul>				
<b>Others</b> 기타사항	I recruit new students seeking for MS/Ph.D. integrated degree only. For more detail, please visit our web site for more detailed research topics and publication lists.				



Name	Surname			Noh	
Name 성함	Given Name		YoungTae		
Position	Professor		Gender	Male □ Female	
직급	110103	301	성별		
Department 소속학과	Computer Engineering		<b>Major</b> 소속전공	Networked and Mobile Interaction System	
Contact	Email	ytnoh@inha.a	ac.kr		
Information	Telephone +32-860-7445				
연락처 정보	Home Page	http://nsl.inha	a.ac.kr/		
Monthly Stipend			Required	(How Many)	
<b>Provided or Not</b> 생활비 지급 의사	Yes	□ No	<b>Manpower</b> 필요인력 수	Integrated(MS+PhD) / PhD: <u>5</u>	
		[		ng ]	
Research Field 연구분야 설명	IPositive Computing ]         FocusMore: The overall goal of this research topic is developing proactive distraction management systems for smartphone distraction vulnerable situations. During the research we are currently focused on following questions: <ul> <li>What are the patterns of phone distraction vulnerable contexts?</li> <li>Which type of DND mode is needed?</li> <li>Would it be possible to automatically generate rules for DND mode?</li> <li>How do users use proactive distraction management systems?</li> <li>As an initial contribution we developed an Android mobile application to collect users' context data about their distractions.</li> <li>EasyTrack: Orchestrating Large-scale Mobile User Studies</li> <li>Human subject studies involve</li> <li>Stress &amp; depression tracking of students, Smartphone usage tracking studies, Physical activity and sleeping behavior tracking</li> <li>Data collecting Platform: major features</li> <li>Real-time tracking of participants' data collecting behaviors</li> <li>Automatic detections and alerts of abnormal data collection</li> <li>Real-time communications (interventions) with experiment/campaign participants</li> <li>Challenge with the scalability: With the scales, however, it is laborious for data collectors who conduct human subject studies that especially involve mobile devices.</li> <li>ICloud Computing I</li> <li>Elastic Kafka over Cloud: This research topic is mainly focused on traffic load balancing in the cloud. We are considering a use case of streams of data produced by IoT sensors and being sent toward the cloud for computational operations. Sometimes these data flows are atractically whimsical and cause the bottle neck in the cloud side. For better data consumptior in the cloud we are using the most recent platform by Google – Kubernetes, which showed quite good performance in running containerized applicat</li></ul>				
	Nyang, <b>"Insta</b>	Measure: Inst	ant Per-flow Det	oh, Aziz Mohaisen and Daehun tection UsingLarge In-DRAM	
Career				E ICDCS'19, to appear.	
Achievements	-	-		frastructure-free Collaborative Team Operations," IEEE Trans.	
업적 리스트		•	n, and Cybernetics:		
(Recent 3 ones)	Rhongho Jang, DongGyu Cho, Youngtae Noh, and DaeHun Nyang, " <b>RFlow+: An SDN-based WLAN Monitoring And Management Framework</b> ," <u>IEEE INFOCOM 2017</u> , Atlanta, GA, USA, May 1-4, 2017. ( <b>Best-in-session Presentation Award</b> ) [PDF] [PPTX]				



Name	Surname			Han	
성함	Given Name Kyungsook			ingsook	
Position 직급	Profes	sor	Gender 성별	Position 직급	
<b>Department</b> 소속학과	Electrical and Enginee	•	<b>Major</b> 소속전공	Department 소속학과	
Contact	Email	khan@inha.ac.kr			
Information	Telephone		+82-32	2-860-7388	
연락처 정보	Home Page		http://biocom	iputing.inha.ac.kr	
Monthly Stipend Provided or Not 생활비 지급 의사	■ Yes	□ No	Required Manpower 필요인력 수	Monthly Stipend Provided or Not 생활비 지급 의사	
Research Field 연구분야 설명	Bioinformatics Machine learning Analyzing and visualizing bio big data				
Three Recent	Constructing a Cancer Patient-Specific Network Based on Second-Order Partial Correlations of Gene Expression and DNA Methylation, IEEE/ACM Transactions on Computat Biology and Bioinformatics, 2022 (DOI 10.1109/TCBB.2022.3145796)				
Career Achievements 업적 리스트	A New Approach to Deriving Prognostic Gene Pairs from Cancer Patient-specific Gene Correlation Networks, IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021 (DOI: 10.1109/TCBB.2020.3017209).				
(최근 세건)	Constructing Cancer Patient-Specific and Group-Specific Gene Networks with Multi-Omics Data, BMC Medical Genomics, Vol. 13, 81, 2021 (DOI: 10.1186/s12920-020-00736-7).				
Others 기타사항	<ul> <li>Current projects:</li> <li>Discovery of cancer genes and inference of gene networks in individuals from mathematical modeling of bio big data</li> <li>Deep learning for mining protein-binding motifs in nucleic acids</li> <li>More details are available at http://biocomputing.inha.ac.kr.</li> </ul>				



Name	Surname			Park
성함	Given Name		Daeyoung	
Position 직급	Profes	sor	Gender 성별	■ Male □ Female
<b>Department</b> 소속학과	Electrical and Enginee	-	<b>Major</b> 소속전공	Information & Communication / Artificial Intelligence
	Email	dpark@inha.	ac.kr	
Contact Information	Telephone	032-860-837	6	
연락처 정보	Home Page	spml.inha.ac	.kr	
Monthly Stipend Provided or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	(How Many) Master1_ / Ph.D1
Research Field 연구분야 설명 Career Achievements	Machine Learning / Optimization Large Scale Optimization Federated Learning Data-driven Signal Processing Algorithms Signal Processing for Wireless Communications MIMO Systems Sparsity Aware Signal Processing Al-based Communication System Design "Beamforming Vector Design and Device Selection in Over-the-Air Federated Learning," <i>IEEE Transactions on Wireless Communications</i> , 2023.			
업적 리스트 (Recent 3 ones)	Learning," IEEE Tro	ansactions on V Detection Net	<i>/ehicular Technol</i> tworks based on	zation for Over-the-Air Federated ogy, 2023. Inexact ADMM," <i>IEEE Transactions</i>
Others 기타사항	We are looking for an excellent Master/PhD student in the area of signal processing wireless communication, and machine learning. Requirements: Students require excellent mathematical skills and extensive C/Matlab/Python programming expertise. The successful candidate needs to have a BS degree in Electrical/Computer Engineering or in a related discipline with high GPA.			



Name	Surname	Jo			
성함	Given Name	Geun-Sik		eun-Sik	
Position 직급	Profess	sor	Gender 성별	■ Male □ Female	
<b>Department</b> 소속학과	Electrical and Enginee	•	Major 소속전공		
Contact	Email		gsjo@inha.ac.kr		
Information	Telephone		+82-32	2-860-7447	
연락처 정보	Home Page		http://aila	ab.inha.ac.kr	
Monthly Stipend Provided or Not 생활비 지급 의사	■ Yes [	⊐ No	Required Manpower 필요인력 수	Master <u>3</u> / Ph.D <u>2</u>	
Research Field 연구분야 설명	Intelligent Augmented Reality Artificial Intelligence based Content Creation Machine/Deep Learning (Object Tracking, Facial Emotion Recognition, etc.) CSP (Constraint Satisfaction Problems)				
Three Recent	"RSINet: Rotation-Scale Invariant Network for Online Visual Tracking", ICPR 2020 (Top-tier Conference)				
Career Achievements	"Robust visual tracking based on global-and-local search with confidence reliability estimation", Neurocomputing, 2019 (SCI-E Journal, Impact Factor: 4.438)				
업적 리스트 (최근 세건)	"Visual Tracking Based on a Unified Tracking-and-Detection Framework with Spatial-Temporal Consistency Filtering", Computers & Electrical Engineering, 2019 (SCI-E Journal, Impact Factor: 2.663)				
	All graduates acce grants and other r	•		cially supported by the government	
<b>Others</b> 기타사항	The main projects of our laboratory are as below. Artificial Intelligence-based Content Creation Project: We research artific intelligence-based methods to understand video content such as movies. Vario datasets collected, and based on analyzed information and deep learning algorithms, new video content is created automatically.				
	XR for Aircraft Maintenance Training/Education: An aircraft is a complex machine made up of numerous parts, and traditionally, mechanics need to retrieve and organize various manuals each time to perform the maintenance process. To eliminate the high cognitive load of engineers during the operation, we research methods to innovate aircraft maintenance paper-based manuals to knowledge and visualize content using augmented reality.				



Name	Surname	ne Kim		Kim
성함	Given Name		Chang Gyun	
Position 직급	Profess	sor	Gender 성별	■ Male □ Female
<b>Department</b> 소속학과	Environmental E Program in Enviro Polymer Eng	onmental and	Major 소속전공	Environmental Engineering
Contact	Email	cgk@inha.ac.kr		
Information	Telephone		+82 32	2 860 7561
연락처 정보	Home Page		http://whs.inha.a	ac.kr/~cgk/intro.html
Monthly Stipend Provided or Not 생활비 지급 의사	■ Yes	□ No	Required Manpower 필요인력 수	Master <u>3</u> / Ph.D
<b>Research Field</b> 연구분야 설명	<ol> <li>Microplastic – Biochemical degradation/treatment</li> <li>Assessment of biodegradability of microplastics, pharmaceuticals, antibiotics in water/soil environment.</li> <li>Development of advanced oxidation process (AOP) for enhancing the biodegradability of microplastics, pharmaceuticals, antibiotics.</li> <li>Environmental monitoring of hazardous pollutants</li> <li>Development of a method for pretreatment and identification of microplastics in the natural environment.</li> <li>Monitoring and management of extraneous bacteria, microplastics, carcinogens, POPs and virus in the coast area</li> <li>Biological soil remediation – Acid neutralization and heavy metal adsorption</li> <li>Methane gas production following the reaction between carbon dioxide and</li> </ol>			
Three Recent Career Achievements 업적 리스트 (최근 세건)	hydrogenS.Y. Park; Y.S. Choi; S.Y. Park; C.G. Kim; "A case study on the correlation betweenradon and multiple geophysicochemical properties of soils in G island, Korea, andeffects on the bacterial metabolic behaviors", <i>Journal of EnvironmentalRadioactivity</i> , 222, 106336 (2020).S.Y. Park; C.G. Kim; "Biodegradation of micro-polyethylene particles by bacterialcolonization of a mixed microbial consortium isolated from a landfill site",Chemosphere, 222, 527-533 (2019).S.Y. Park; C.G. Kim; "A comparative study of three different viability tests forchemically or thermally inactivated Escherichia coli", Environmental EngineeringResearch, 23(3), 282-287 (2018)			
<b>Others</b> 기타사항	Prospering Vietnamese students			



Name	Surname			Kim	
성함	Given Name		Jeonghwan		
Position 직급	Profess	sor	Gender 성별	<u>□ Male</u> □ Female	
Department 소속학과	Environmental I	Engineering	<b>Major</b> 소속전공	Membrane technology for water/wastewater treatment and resource recovery	
Contact	Email	jeonghwankii	m@inha.ac.kr		
Information	Telephone	010-4020-14	46, 032-860-750	2	
연락처 정보	Home Page	http://whs.in	nha.ac.kr/~sen	<u>nt/</u>	
Monthly Stipend Provided or Not 생활비 지급 의사	<u>□ Yes</u>	🗆 No	Required Manpower 필요인력 수	(How Many) Master1 / Ph.D2	
Research Field 연구분야 설명	Research interests in Sustainable Environmental Membrane Technology (SEMT) laboratory at INHA University emphasize fundamental aspects of membrane technology and its applications as laboratory and pilot-scaled levels. We have studied membrane bioreactor (MBR) especially for energy recovery and developed hybrid based-based process for wastewater reclamations extensively. Recently, we have launched national projects dealing with new anaerobic membrane bioreactor and catalytic membrane system using reactive membrane materials for providing excellent effluent quality and antifouling functionality as well as resource recovery from water and wastewater.				
Career Achievements 업적 리스트 (Recent 3 ones)	<ul> <li>M. Kim, T. Lam, G. A. Tan, P. Lee and J. Kim, Use of polymeric scouring agent as fluidized media in anaerobic fluidized bed membrane bioreactor for wastewater treatment: System performance and microbial community, 606, 118121, <i>Journal of Membrane Science</i>, 2020</li> <li>S. Chang, R. Ahmad, D. Kwon and J. Kim, Hybrid ceramic membrane reactor combined with fluidized bed adsorbents and scouring agents for hazardous metal-plating wastewater treatment, <i>Journal of Hazardous Materials</i>, 388, 121777, 2020</li> <li>D. Kwon, S. Kwon, J. Kim and J. Lee, Feasibility of the highly-permselective forward osmosis membrane process for the post-treatment of the anaerobic fluidized bed</li> </ul>				
Others 기타사항	bioreactor effluent, <i>Desalination</i> , 485, 114451, 2020 Importance and strong point of our researches in SEMT are interdisciplinary collaborations with many renowned research groups around the world. We have undergone international collaboration projects with various, leading research institutes in membrane technology such as University of Leuven (Belgium), University of Montpellier (France) and UCLA/Stanford University (USA). We have now been extending our global research network to The University of Hong Kong and Imperial College at London actively. New international project supported by Korea Research Foundation dealing with anaerobic membrane bioreactor was just launched with Denmark Institute of Technology. Students who are interested in joining our SEMT research group should have BS or MS degree in Environmental Engineering, Physics, Biology, Mathematics or other related fields. Official language scores may be required. Most importantly, anyone who is passionate and has highly research motivations to study membrane technology are always welcomed. Please contact with me if you have any inquiry on our research works and regarding the position as graduate level in our SEMT laboratory.				



Name	Surname			Lee
성함	Given Name		F	landol
Position 직급	Assistant Pr	ofessor	Gender 성별	Male
Department 소속학과	Environmental E	Engineering	<b>Major</b> 소속전공	Environmental Engineering (air pollution, aerosol technology, particulate matter control)
Contact	Email		<u>leehd(</u>	<u>@inha.ac.kr</u>
Information	Telephone		+82-32	2-860-7504
연락처 정보	Home Page		http://pc	cl.inha.ac.kr/
Monthly Stipend Proveded or Not 생활비 지급 의사	Yes		Required Manpower 필요인력 수	Master: 2 / Ph.D.: 1
	corona discharging	search is related and electrospun		nt of air cleaning systems including
<b>Research Field</b> 연구분야 설명	<ul> <li>2. Aerosol Instrumentation         Aerosol instrumentation research focuses on the development of aerosol instruments for atmospheric particle measurements, especially the number concentration and the size distribution of airborne particles ranging from 5 nm to 10 μm. The developed aerosol instruments are actively used in various outdoor field measurements.     </li> <li>3. Air Pollution         Air pollution research focuses on the effects of atmospheric particles on air pollution and climate change. Field measurements are conducted using the self-developed aerosol     </li> </ul>			
		ch (CFR) consis	sting of internationa	th an industrial consortium, the Center al companies. The consortium is held Minnesota.
		s particle behavi		he computational fluid dynamics involved in most of the research fields
Three Recent Career	Development of a m mobility analyzer MEASUREMENT TI	and multi-	condensation p	vith a 12-channel multi-port differential article counters, ATMOSPHERIC 020
Achievements				ation and pattern on a sharp-bent tube SS TRANSFER, 164, 120534, 2021
업적 리스트 (최근 세건)	Application of an aerosol electrical mobility spectrum analyzer: Charged-particle polarity ratio measurement in the Antarctic and Arctic regions, JOURNAL OF ENVIRONMENTAL SCIENCES, 105, 81-89, 2021			
<b>Others</b> 기타사항	Our lab welcomes international students for MS and PhD programs. We are open to any questions. Do not hesitate to send an email to leehd@inha.ac.kr for more information on our lab.			



Name	Surname			Jeon
성함	Given Name		Ki	Joon
Position 직급	Profess	sor	Gender 성별	🗹 Male 🛛 Female
<b>Department</b> 소속학과	Environmental e	engineering	<b>Major</b> 소속전공	Environmental engineering
Contact	Email	inhafeetlab@	gmail.com	
Information	Telephone	+8210572112	195 (Vietnamese,	English available)
연락처 정보	Home Page	https://sites.g	joogle.com/view/i	nhaenvironment2/
Monthly Stipend Provided or Not 생활비 지급 의사	⊠ Yes	□ No	Required Manpower 필요인력 수	(How Many) Integrated (Ms+PhD) / PhD: 2
<b>Research Field</b> 연구분야 설명	AtmosphericAir quality measurementsParticles emission characterization and toxicity test: <i>in-vivo</i> and <i>in-vitro</i> testArtificial PM generationNanomaterialNanomaterial engineering to solve environmental issues:Enhance efficiency of hydrogen energy production by utilizing electrocatalystDevelopment of nano-sized transistor for toxic gas sensor			issues: n by utilizing electrocatalyst
Career Achievements 업적 리스트 (Recent 3 ones)	Structural transformations of hydrogen and sulfur annealed Pt-based Chalcogenides electrocatalysis. <b>Applied Surface Science, 2022</b> Self-healing graphene templated platinum nickel oxide heterostructures for overall water splitting. <b>ACS nano, 2022</b> Quantification of tire wear particles in road dust from industrial and residential area in Seoul, Korea. Science of The Total Environment, 2021			
	Traffic-related particulate matter aggravates ocular allergic inflammation by			
	mediating dendritic cell maturation. Journal of Toxicology and Environmental Health, 2021			



	Pd nanocluster/Monolayer MoS2 heterojunctions for Light induced room
	temperature hydrogen sensing. ACS applied materials & Interfaces, 2021
<b>Others</b> 기타사항	
	<image/>



Name	Surname			Park		
성함	Given Name		Kwa	Kwan-Dong		
Position 직급	Profes	sor	Gender 성별	■ Male  □ Female		
<b>Department</b> 소속학과	Geoinformatic I	Engineering	Major 소속전공	GPS, Autonomous Driving		
Contact	Email	kdpark@int	<u>na.ac.kr</u>			
Information 연락처 정보	Telephone	+82-32-873	-4310			
신국지 영도	Home Page	https://www	. <u>gps2u.kr</u>			
Monthly Stipend Provided or Not 생활비 지급 의사	■ Yes	□ No	Required Manpower 필요인력 수	(How Many) Master2_ / Ph.D2		
Research Field 연구분야 설명	<ul> <li>✓ High-precision GPS/GNSS data processing</li> <li>✓ GPS sensor development for autonomous driving Geodesy and geophysical GPS</li> </ul>					
Career Achievements 업적 리스트 (Recent 3 ones)	The school laboratory's name is "SNL", which stands for Satellite Navigation Laboratory.         The professor has founded a startup focusing on GPS/GNSS-sensor development for autonomous driving and its name is "Precise Positioning Solution Inc.", whose home page is <a href="https://www.ppsoln.com">https://www.ppsoln.com</a> .         The professor and graduate students have published numerous CPS/CNSS related articles in the internetional and Karean journals					
Others 기타사항	<ul> <li>GPS/GNSS-related articles in the international and Korean journals</li> <li>All the laboratory members or graduate students are working on government or industrial research projects, and thus are being financially supported by the project money.</li> <li>Master's students and doctoral students get up to 2,200,000 and 3,000,000 Korean Wons per month, respectively.</li> </ul>					



Name	Surname			Lee	
성함	Given Name		Choul-Gyun		
Position 직급	Profess	sor	Gender 성별	☑ Male  □ Female	
<b>Department</b> 소속학과	Biological En	gineering	<b>Major</b> 소속전공	Biological Engineering	
Contact	Email		leecg@	))inha.ac.kr	
Information	Telephone		82-32-	-860-8997	
연락처 정보	Home Page	ht	tps://p-leecg.inha	ı.ac.kr/p-leecg/index.do	
Monthly Stipend Proveded or Not 생활비 지급 의사	v Yes	□ No	Required Manpower 필요인력 수	Master1_ or Ph.D1	
<b>Research Field</b> 연구분야 설명	<ul> <li>We are working on various projects that target to produce microalgae-based products from upstream to downstream and from micro-scale to pilot-scale.</li> <li>Systems Biology         <ul> <li>Metabolic engineering of microalgae with <i>in-silico</i> modeling of metabolic pathways and molecular biology tools to produce new valuable compounds or enhance their productivity</li> <li>Synthetic biology research for development of BIO-fertilizer</li> </ul> </li> <li>Microalgal Cell Culture Technology         <ul> <li>Development of large-scale culture systems based on semi-permeable materials technology for sustainable production of microalgal biomass</li> <li>Photobioreactor engineering and optimization of cultivation parameters (temperature, light supply, media, <i>etc.</i>) to enhance productivities of biomass and valuable biochemicals such as lipids and pigments</li> </ul> </li> <li>Biorefinery         <ul> <li>Development of extraction and conversion technologies to produce various products, such as biofuels, animal feeds, and fertilizers, from</li> </ul> </li> </ul>				
Three Recent Career	with	n insect or plar	nt fatty acid methy	ocystis sp. PCC6803 transformed /ltransferase (2021) pating photobioreactors with semi-	
Achievements 업적 리스트	permeable r	nembranes gr	afted with 4-hydro	oxyphenethyl bromide (2020)	
(최근 세건)		0.	•	balgae by additionally supplying 10,174,282 (2019)	
Others 기타사항	<ul> <li>environmental water. US Patent 10,174,282 (2019)</li> <li>We have many types of microalgal culture systems in various scales, cutting-edge analytical equipment, and downstream process reactors that students can learn to use and operate them for research.         <ul> <li>Culture systems: Bubble columns, continuously stirred tank reactors, flat-panel photobioreactors, raceway ponds, ocean floating ponds</li> </ul> </li> <li>Analytical equipment: HPLC, GC-MS, Coulter Counter, Cellometer, TOC analyzer, water analyzer, phase-contrast microscope</li> </ul>				



Name	Surname		,	Yang
성함	Given Name	Name Yun Jung		n Jung
Position 직급	Assistant pro	fessor	Gender 성별	□ Male ■ Female
<b>Department</b> 소속학과	Biological engi	neering	<b>Major</b> 소속전공	Protein engineering, Tissue engineering, Scaffold design
Contact	Email	yj.yang@inha	a.ac.kr	
Information 연락처 정보	Telephone	+82-32-860-	7512	
신국자 영도	Home Page	http://yanglal	o.creatorlink.net/l	NTRO
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes 🛛	No	Required Manpower 필요인력 수	Master <u>1</u> / Ph.D. <u>1</u>
				of biomaterials based on detailed
<b>Research Field</b> 연구분야 설명	understanding of biological systems. Genetic or molecular engineering of biopolymers facilitates the flow of biological evolution, and enables the amplification of specific abilities. Re-designing biomolecules for changing affinity of antibodies, controlling self- assembly of biopolymers for physically/mechanically robust biomaterials, and hybriding organic-inorganic materials for reinforced materials are good examples. The research on tuning the function and properties of biomaterials for specific purposes will solve the problems faced by humankind in medical, pharmaceutical, agricultural and environmental fields.			ables the amplification of specific finity of antibodies, controlling self- robust biomaterials, and hybriding are good examples. The research for specific purposes will solve the
Three Recent	Biomolecules Throug Biomacromolecules, 22			. ,
Career			•	Narine-derived Natural Polymer-based
Achievements	Bioprinting Ink for Bioc	ompatible, Dura	ble, and Controllab	le 3D Constructs", Biofabrication,
업적 리스트	11(035001):1-13, 201	9 (I.F.: 6.838, JC	CR%: 3.85)	
(최근 세건)	Y.J. Yang, C.S. Kim, B.	H. Choi and H.	J. Cha, "Mechanica	lly Durable and Biologically Favorable
	Protein Hydrogel ba	ased on Elas	tic Silklike Prote	in derived from Sea Anemone",
	Biomacromolecules 16	. ,	•	,
		•	orean or who is w	villing to study Korean is preferred
Others	(to mingle with lab	,		
기타사항	<ul> <li>Interested individu</li> <li>their CV.</li> </ul>	ials should cor	ntact Prof. Yun Ju	ng Yang with an electronic copy of



Name	Surname			Jeon	
성함	Given Name		Та	Tae-Joon	
Position 직급	Profess	sor	Gender 성별	Male 🛛 Female	
<b>Department</b> 소속학과	Biological Eng	gineering	<b>Major</b> 소속전공	Nanobiotechnology	
Contact	Email		tjjeon@	)inha.ac.kr	
Information	Telephone		+82-32	2-860-7511	
연락처 정보	Home Page		http://bs	sl.inha.ac.kr	
Monthly Stipend Proveded or Not 생활비 지급 의사	Yes	□ No	Required Manpower 필요인력 수	Master / Ph.D2	
Research Field 연구분야 설명	<ul><li>Cells/Tiss</li><li>Nanobiot</li></ul>	sues/Organs-c echnology – N	on-a-Chip Ianomedicine, Dru	iosensors, Molecular Diagnosis ug Delivery Systems sial Cells, Cosmetics	
Three Recent Career		compound re	lease, Biomacron		
Achievements	Aptamer-conjug		etylene colorimetr ingiensis spores,	ic paper chip for the detection of Sensors 2020	
업적 리스트 (최근 세건)	Biomimetic mer		tential tools for w venues, Desalina	ater purification: Preceding and	
		Biohybri	d Systems L	ab (BSL)	
Others 기타사항	Biosenso Diagno Virus / Pathogen Biosensor Disease Diagnosis Tissues/Organs-on-Chips Microfluidic Studies of C. elegans Microfluidic Studies of C. elegans Drug/Ion Channel Screening Platform Membrane Biosensors Biomimetic Membrane Platfor	rs / Cosmer Biomate	BSLU OUBE Fat Seley Etal Ahmed feat Haming FSTH FSTH FSTH FSTH FSTH FSTH FSTH FSTH FSTH Fat Seley Fat Sele	ine Biomimetic Systems Warg Jing Hot. genius Hot. Separe Hot. Separe	



Name	Surname			Kim
성함	Given Name		Ν	1insik
Position 직급	Assistant Pr	ofessor	Gender 성별	Male
<b>Department</b> 소속학과	Biological Eng	gineering	<b>Major</b> 소속전공	Biological Engineering
Contact	Email		<u>minsik.kir</u>	m@inha.ac.kr
Information 연락처 정보	Telephone		+82-32	2-860-7515
	Home Page		bagel.	inha.ac.kr
Monthly Stipend Proveded or Not 생활비 지급 의사	Yes		Required Manpower 필요인력 수	Master <u>1</u> / Ph.D <u>1</u>
Research Field 연구분야 설명	<ol> <li>Bioprocess optimization for biofuel production from microalgae</li> <li>Techno-economic assessment of developed procesess</li> <li>Development of analysis pipeline of metagenomic sequencing data</li> <li>Wastewater treatment</li> </ol>			veloped procesess
Three Recent Career		-	•	process for whole cell biomass al Engineering Journal, 2023
Achievements	Extra benefit		in raw piggery wa ction, Microbiome	astewater treatment: pathogen e, 2022
업적 리스트 (최근 세건)			a sp. based on sequential hydrolysis of Helianthus e, Energy Conversion and Management, 2020	
		-	D. Dept. of Biologic Education Ph.D., KAIST, 2016 – 2 M.S., KAIST, 2014 – 20 B.S., KAIST, 2009 – 20	<ul> <li>Postdoctoral Researcher, KRIBB, 2020 – 2021</li> <li>14</li> </ul>
Others 기타사항	Increasing renewa health impact of bio Receivable Receivable Impact of bio Receivable Impact of bio Impact of bio Impact of bio Skill sets of BAGEL: Metagenomics analysis (developing analysis pipelines Statistical optimization tools (linear and quadratic multivari Techno-economic assessment (SuperPro Designer) More information at http:	bility & important of amplicon & WGS data iate models)	Microaction includes Microaction includes	Conventional medium Alternative C and N Frances Varie etner



Name	Surname			Lee		
성함	Given Name		Jeor	Jeong-Hwan		
Position 직급	Assistant Pr	ofessor	Gender 성별	Male		
Department 소속학과	Materials So Enginee		<b>Major</b> 소속전공	Organic semiconductor devices		
Contact	Email		jeong-hwan	.lee@inha.ac.kr		
Information	Telephone		+82-32	2-860-7525		
연락처 정보	Home Page		https://sites.goog	gle.com/view/aolinha/		
Monthly Stipend Proveded or Not 생활비 지급 의사	Yes		Required Manpower 필요인력 수	Master / Ph.D2		
	1. Optoelectronic	Materials and	Devices			
	- Hybrid (organic	+ inorganic) s	emiconductor de	vices		
	- Optoelectronic devices such as Light-emitting diodes (LED), Photovoltaic (PV),					
Research Field 연구분야 설명	Thin Film Transistor (TFT), Sensor and detector, Flexible optoelectronic device					
	2. Optical and Ele	ctrical Charact	erization of semi	conductor devices		
	- Recombination	and emission	mechanism in se	miconductor devices.		
	- Electrical and o	ptical simulation	on of organic serr	niconductor devices		
Three Recent	Outs	tanding Young	Faculty Awards	2020, Inha University		
Career Achievements 업적 리스트		Sm	all 15, 1900135 (	2019)		
(최근 세건)	A	dvanced Elec	tronic Materials 5	, 1800437 (2019)		
	Ongoing Research	arch Projects (	Funding)			
Others 기타사항	<ul> <li>Ongoing Research Projects (Funding)</li> <li>PBL oriented semiconductor equipment engineer recruits (POSEER), 2019~2024</li> <li>PSF based blue organic light-emitting diodes with efficiency over 18% 2019~2023</li> <li>Low-dimensional perovskite materials and opto-electric device laboratory 2020~2023</li> <li>Development of OLED pixel-forming technology by photolithographic patterning method 2020~2024</li> <li>Boosting the efficiency of perovskite light-emitting diodes by controlling the ligand of perovskite quantum dots coupled by optical simulation 2020~2021</li> <li>Characterization of anode work-function depending on the pretreatment process 2020~2022</li> </ul>					



Name	Surname		C	СНОІ	
성함	Given Name		RINO		
Position 직급	Profess	sor	Gender 성별	🗹 Male 🛛 Female	
Department 소속학과	Materials Scie Enginee		<b>Major</b> 소속전공	Materials Science and Engineering	
Contact	Email		rino.choi	@inha.ac.kr	
Information	Telephone		+82 32	2 860 7525	
연락처 정보	Home Page	http	s://sites.google.c	om/view/choisinha/home	
Monthly Stipend Proveded or Not 생활비 지급 의사	⊠ Yes	🗆 No	Required Manpower 필요인력 수	Master <u>6</u> / Ph.D2_	
Research Field 연구분야 설명	<ul> <li>CMOS Applications         <ul> <li>Monolithic 3D Integration Circuit: utilizing Laser and Microwave Annealing for the low-temperature process to achieve high performance for the upper-layer device while preventing deterioration of existed layer.</li> <li>Low-temperature process: Microwave Annealing for silicide formation and dopant activation for low-temperature process in comparison with traditional annealing methods.</li> <li>Device Reliability: reliability assessments such as BTI, TDDB, and HCI for device analysis to guarantee a 10-year lifetime.</li> <li>Memory Applications:</li> <li>Ferroelectric devices: HZO-based ferroelectric thin film fabrication utilizing ALD, RF Sputtering, and Solution processes.</li> <li>Resistive Random Access Memory (RRAM): fabrication and characterization of ReRAM devices using CMOS technology compatible materials.</li> <li>Metal-Oxide Thin-Film Transistors:</li> <li>IGZO TFTS: enhance the device mobility and reliability by passivating surface and defects using SAM treatment and hydrogen doping.</li> <li>Indium Zinc Oxide (IZO): thin-film electrical properties improvement and low-temperature crystallization through alkali metal doping.</li> <li>Oxide Semiconductor: low-temperature crystallization utilizing laser heat treatment.</li> <li>MGFET Fabrication: solution for new sensor generation.</li> </ul> </li> </ul>				
Three Recent Career Achievements 업적 리스트 (최근 세건)	Low-temperature dopant activation using nanosecond ultra-violet laser annealing for monolithic 3D integration JH Kim, HM Ji, MC Nguyen, AHT Nguyen, SW Kim, JY Baek, J Kim,Thin Solid Films 735 (2021) 138864 Wakeup-free and Endurance-robust Ferroelectric Field-Effect Transistor Memory Using High Pressure Annealing MC Nguyen, S Kim, K Lee, JY Yim, R Choi, D Kwon, IEEE Electron Device Letters, Vol. 42, No. 9, September 2021				
	Electrical characterization of gate stack charge traps in floating body gate-all- around field-effect-transistors MC Nguyen, AHT Nguyen, J Yim, AD Nguyen, M Kim, J Kim, J Beak,Journal of Vacuum Science & Technology B 39, 032203 (2021).				
<b>Others</b> 기타사항					



Name	Surname		F	łahm	
성함	Given Name		Myur	ng Gwan	
Position 직급	Associate P	rofessor	Gender 성별	■ Male □ Female	
<b>Department</b> 소속학과	Materials Scie Enginee		<b>Major</b> 소속전공	Materials Science and Engineering	
Contact	Email		mghahm	@inha.ac.kr	
Information	Telephone		+82-32	2-860-7524	
연락처 정보	Home Page		http://qr	nl.inha.ac.kr	
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes	□ No	Required Manpower 필요인력 수	Master / Ph.D1	
	The research of	QNM Lab foc	uses on investiga	ting new synthetic routes for low-	
	dimensional nanon	naterials and th	eir diverse futurist	ic applications. We are interested in	
	sp2 graphitic structures such as carbon nanotubes, graphene and nanostructured				
Research Field 연구분야 설명	architectures and atomic-layered transition metal dichalcogenides such as $MoS_2$ , $MoSe_2$ ,				
	WS <sub>2</sub> , WSe <sub>2</sub> , NbSe <sub>2</sub> , etc. and study underlying fundamental science including their low-				
	temperature behaviors. We also develop diverse futuristic applications such as				
	flexible/transparent electronics, sensors, and energy storage devices.				
	Catalyst-free Synt	hesis of sub-5	5nm Silicon Nand	owire Arrays with Massive Lattice	
Three Recent		0.14		tions, 13, 3467 (2022)	
Career Achievements 업적 리스트	Robust, Ultrasmooth Fluorinated Lithium Metal Interphase Feasible via Lithiophilic Graphene Quantum Dots for Dendrite-Less Batteries, Small, 18, 2200919 (2022)				
(최근 세건)	Visualizing Line D	efects in non-v	an der Waals Bi2	O2Se using Raman Spectroscopy,	
	ACS Nano, 16, 363	37 (2022)			
Others 기타사항	ACS Nano, 16, 3637 (2022) All graduates accepted for our QNM Lab will be financially supported by the government grants and other research grants. The main projects of our laboratory are 1) Synthesis and 3D architecturing of quantum nanomaterials, 2) Controlled tailoring of atomic bonding structure of nanomaterials, 3) Developments of diverse futuristic applications.				



Name	Surname		Н	wang	
성함	Given Name	n Name		Haejin	
Position 직급	Profess	sor	Gender 성별	■ Male □ Female	
<b>Department</b> 소속학과	Materials Scie Enginee		<b>Major</b> 소속전공	Materials Science and Engineering	
	Email			@inha.ac.kr	
Contact Information 연락처 정보	Telephone		+82-32	2-860-7521	
친구지 중도	Home Page				
Monthly Stipend Provided or Not 생활비 지급 의사	■ Yes [	□ No	Required Manpower 필요인력 수	Master <u>1</u> / Ph.D. <u>1</u>	
Research Field 연구분야 설명	<ul> <li>Synthesis and evaluation of oxide and sulfide solid electrolytes for all-solid-state lithium-ion batteries</li> <li>Electrode and catalyst design for next generation solid oxide fuel cells</li> <li>Synthesis of ultra-porous hydrophobic or hydrophilic silica aerogel</li> <li>Fabrication of silica aerogel-based nanocomposite polymers</li> <li>Novel dielectric materials for X9R MLCC</li> </ul>				
Three Recent Career Achievements 업적 리스트	<ul> <li>Fabrication and electrochemical properties of Li<sub>1.3</sub>Al<sub>0.3</sub>Ti<sub>1.7</sub>(PO<sub>4</sub>)<sub>3</sub> solid electrolytes by sol-gel method, Appl. Surf. Sci., 473 (2019) 622</li> <li>Fabrication of a regenerable Ni supported NiO-MgO catalyst for methane steam reforming by exsolution, J. Power Sources, 397 (2018) 318</li> </ul>			MgO catalyst for methane steam 2018) 318	
(최근 세건)		-	•	from an aqueous silica aerogel	
Others 기타사항	Slurry, Ceram. Inter., 44 (2018) 2204 Our laboratory is working on four research projects; three are supported by government (NRF Korea) and one by a private company. 1) Development of composite solid electrolyte for Li-S, Li-air, and all-solid-state batteries of energy storage systems. 2) Development of hydrophobic and hydrophilic silica aerogel powder 3) Synthesis of bismuth sodium titanate perovskite nano powder for X9R MLCC application 4) Next generation electrode materials for load-proof SOFC. A monthly stipend + incentive + TA or RA scholarship will be provided.				



Name	Surname			Kim
성함	Given Name	Gi-Woo		
Position 직급	Profes	sor	Gender 성별	■ Male □ Female
<b>Department</b> 소속학과	Mechanical Er	ngineering	<b>Major</b> 소속전공	Control, Measurement
Contact	Email	gwkim@inha	.ac.kr	
Information	Telephone	+82-32-860-7	7313	
연락처 정보	Home Page	http://csml.in	<u>ha.ac.kr/</u> (Contro	l Systems and Mechatronics Lab)
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes	□ No	<b>Required</b> Manpower 필요인력 수	Master <u>1</u> / Ph.D. <u>1</u>
	Data-Driven I	Mechatronics :	Machine Learnin	ng, Measurement, and Control
	Vehicular Electronics and Smart Mobility			
Research Field 연구분야 설명	Piezophotonic Sensors Based on Mechanoluminescent Particles			
	Flexible Optoelectronic Applications for Internet of Things (IoT)			
	A Class of New Smart Materials for Sensors and Actuators			
	Sang-Hyun Park,	Dong-Hoon Le	e, Sang-Eui Lee	, and Gi-Woo Kim*, "Kalman filter-
	based loading rate-dependent hysteresis compensation of flexoelectric torsional			
Three Recent	responses in polyvinylidene fluoride films for shaft torque sensors", Mechanical			
	Systems and Signal Processing 147 (2021) 107112 Yooil Kim, Gwang-Yong Jung, Jung-Sik Oh and Gi-Woo Kim*, "Dual Optical Signal-			
Achievements 업적 리스트 (최근 세건)	based Intraocu	ılar Pressure	e-sensing Princ	
	Yooil Kim, Ji-Sik Kim, and Gi-Woo Kim, "A Novel Frequency Selectivity Approach Based on Travelling Wave Propagation in Mechanoluminescence Basilar Membrane for Artificial Cochlea", Scientific Reports (IF: 4.259) 8, 12023, 2018			
	Google Scholar https://scholar.goo	ogle.com/citatio	ons?user=xyK3W	/QcAAAJ&hl=ko
Others 기타사항	ResearchGate https://www.researchgate.net/profile/Gi_Woo_Kim			
	ORCID: https://orci	id.org/0000-000	3-4625-0382	



Name	Surname		N	loon
성함	Given Name	Seoksu		
Position 직급	Associate P	rofessor	Gender 성별	■ Male □ Female
<b>Department</b> 소속학과	Mechanical Er	ngineering	<b>Major</b> 소속전공	Thermodynamics & Fluid Mechanics
Contact	Email		ss.moon(	@inha.ac.kr
Information	Telephone		+82-32-	-860-7378
연락처 정보	Home Page		http://pes	l.inha.ac.kr/
Monthly Stipend Provided or Not 생활비 지급 의사	■ Yes	□ No	Required Manpower 필요인력 수	Master <u>1</u> / Ph.D _1_
Research Field 연구분야 설명	<ul> <li>Analysis and development of energy conversion systems (automotive &amp; marine engines, gas turbines, combustors, and heat exchangers)</li> <li>Application of carbon-neutral energy sources such as hydrogen, e-Fuel, ammonia, and biofuel to energy conversion systems</li> <li>Advanced modeling and analysis of thermo-fluid systems using theories, numerical methods, and Al</li> </ul>			
Three Recent Career	• •		•	the performance improvement of munications in Heat and Mass
Achievements 업적 리스트	Comprehensive ir particular focus or	-	•	characteristics of GDI injector: A cts, Fuel, 2023.
(최근 세건)	•	•		prediction of diesel injectors
<b>Others</b> 기타사항	during transient and steady operation, Fuel, 2022. Our lab has broad collaboration networks with foreign research institutes (Advanced Photon Source (Argonne National Lab), AIST, and so on) so that the graduate students can have opportunities to visit and perform research abroad that will help students raise their global senses as well as research potentials. The students having basic knowledge of thermodynamics, fluid mechanics, heat transfer, and internal combustion engines are welcomed.			



Name	Surname			Shin	
성함	Given Name		Hyunseong		
Position 직급	Assistant Pr	ofessor	Gender 성별	⊠ Male □ Female	
<b>Department</b> 소속학과	Department of I Enginee		<b>Major</b> 소속전공	Mechanical Engineering	
Questa et	Email	shs1106@int	na.ac.kr		
Contact Information	Telephone	82-10-9080-2	2530		
연락처 정보	Home Page	http://mmml.i	nha.ac.kr		
Monthly Stipend Provided or Not 생활비 지급 의사	⊠ Yes I	⊐ No	Required Manpower 필요인력 수	(How Many) Master _1_ / Ph.D1_	
Research Field 연구분야 설명	Multiscale Mechanics of Materials Laboratory at INHA University focuses on the <u>mechanics of materials</u> across the wide length and time scales (nano scale to macro scale). Currently, we concentrate on <u>multiscale modeling and simulation</u> of <u>advanced materials</u> (e.g., nano-composites, composite structures, solar cells, thin film, etc.) and <u>advanced process</u> (e.g., advanced lithography, 3D printing, etc.), by combining the classical molecular dynamics simulation, micro-mechanics theory,				
Career Achievements 업적 리스트 (Recent 3 ones) Others 기타사항	<ul> <li>continuum finite element method, fracture mechanics theory.</li> <li><u>Hyunseong Shin</u>, Joonmyung Choi, Maenghyo Cho, " An efficient multiscale homogenization modeling approach to describe hyperelastic behavior of polymer nanocomposites ", Composites Science and Technology (ISSN: 0266-3538), 175, 128-134, Elsevier, 2019.05.03.</li> <li><u>Hyunseong Shin</u>, Maenghyo Cho, " Multiscale model to predict fatigue crack propagation behavior of thermoset polymeric nanocomposites ", Composites Part A : Applied Science and Manufacturing (ISSN: 1359-835X), 99, 23-31, Elsevier, 2017.08.01.</li> <li><u>Hyunseong Shin</u>, Byungjo Kim, Jin-Gyu Han, Man Young Lee, Jong Kyoo Park, Maenghyo Cho, " Fracture Toughness Enhancement of Thermoplastic/Epoxy Blends by the Plastic Yield of Toughening Agents: A Multiscale Analysis ", Composites Science and Technology (ISSN: 0266-3538), 145, 173-180, Elsevier, 2017.06.16.</li> </ul>				



Name	Surname			LEE		
성함	Given Name		CH	UL-HEE		
Position 직급	Profess	sor	Gender 성별	☑ Male  □ Female		
Department 소속학과	Mechanical Er	ngineering	Major 소속전공	Smart Construction Machinery Design & Analysis		
Contact	Email		ddutete	@inha.ac.kr		
Information	Telephone		+82-32	2-860-8868		
연락처 정보	Home Page		http://avdo	clab.inha.ac.kr/		
Monthly Stipend Provided or Not 생활비 지급 의사	⊠ Yes I	🗆 No	Required Manpower 필요인력 수	Master / Ph.D		
Research Field 연구분야 설명	- Advanced Self-Driving Mobility - Advanced Semiconductor Packaging - A.I. and Machine Learning - Digital-Twin based VPD - Intelligent Mechatronics					
Caraar	Design of triple	Design of triple cogeneration system for hydrogen fuel cell in greenhouse based on				
Career Achievements	Dorformonoo An		esource analysis, 2			
업적 리스트	Performance Analysis of Time Series Deep Learning Models for Climate Prediction in Indoor Hydroponic Greenhouses at Different Time Intervals, 2023					
(Recent 3 ones)	Machine vision-based recognition of elastic abrasive tool wear and its influence on					
Others 기타사항	Machining performance, 2023 Our lab conducts in advanced self-driving mobility, innovative research in a variety of fields, including advanced semiconductor packaging, AI and machine learning, digital twin VPD, intelligent mechatronics. In autonomous mobility research, we are researching environmental recognition through sensor fusion, AI-based intelligent route planning, and integrated control for autonomous driving. In advanced semiconductor packaging, we research analysis and optimization, ultra-precision printing/dispensing module and system analysis, process optimization, and in AI and machine learning, AI-based control for smart farms, and intelligent risk detection and prediction. Digital twin VPD studies tribological condition monitoring and multi-body dynamics analysis based on a virtual environment, and Lastly, intelligent mechatronics studies intelligent friction control and design and control using smart materials.					



Name	Surname			LEE	
성함	Given Name		Hyun-Taek		
Position 직급	Assistant P	rofessor	Gender 성별	■ Male □ Female	
<b>Department</b> 소속학과	Mechanical E	ngineering	Major 소속전공	Advanced Manufacturing	
Contact	Email	htlee@inha.a	ac.kr		
Information	Telephone	+82 32-860-7	7376		
연락처 정보	Home Page	http://imfm.in	ha.ac.kr/		
Monthly Stipend Provided or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	(How Many) Master <u>1</u> / Ph.D. <u>1</u>	
<b>Research Field</b> 연구분야 설명	<ul> <li>To develop advanced fabrication technologies to overcome the limitations of conventional manufacturing processes. (Hybrid Manufacturing, 3D printing, Focused Ion Beam process)</li> <li>Functional Materials         <ul> <li>To explore unique properties of functional/smart materials in micro-/nanoscale. (Shape memory alloys, Piezoelectric materials, Biological composite)</li> </ul> </li> <li>Creative Design         <ul> <li>To maximize the functionality or capability of materials/applications through creative design. (Origami/Kirigami based design, Compliant structure, Bio-inspired design)</li> </ul> </li> <li>Applications         <ul> <li>To combine manufacturing, materials, and design knowledges to utilize at small</li> </ul> </li> </ul>				
Career Achievements 업적 리스트 (Recent 3 ones)	scale devices for various applications. (Micro-actuators and sensors) Micro-tentacle actuators based on shape memory alloy smart soft composite, <i>Advanced Functional Materials</i> (2020) Vol.30, No.34, p.2002510 (Inside back cover) Laser Controlled 65 Micrometer Long Microrobot Made of Ni-Ti Shape Memory Alloy, <i>Advanced Materials Technologies</i> (2019) Vol.4, No.12, p.1900583. (Front cover) Shape memory alloy (SMA) based microscale actuators with 60% deformation rate and 1.6 kHz actuation speed, <i>Small</i> (2018) Vol.14, No.23, p.1801023 (Front cover)				
Others 기타사항	<ul> <li>Research H</li> </ul>	lighlights	ADVANCED TECHNOLOGIE TECHNOLOG		



Name	Surname		F	Park
성함	Given Name	ll Woong		
Position 직급	Assistant Pr	ofessor	Gender 성별	🗹 Male 🛛 Female
Department 소속학과	Mechanical Er	ngineering	<b>Major</b> 소속전공	Thermal Fluid
Contact	Email		ilwoongpa	rk@inha.ac.kr
Information	Telephone		+82-32	-860-7335
연락처 정보	Home Page		https://mf	tel.inha.ac.kr/
Monthly Stipend Proveded or Not 생활비 지급 의사	☑ Yes	□ No	Required Manpower 필요인력 수	Master <u>1</u> / Ph.D <u>1</u>
Research Field 연구분야 설명	Thermal management solutions based on multiphase flow - Phase-change heat transfer - Fabrication of microstructures - Thermal energy storage - Two-phase flow instabilities			
	•	al conical micro		Dorao, "Wetting state transitions anced Materials Interfaces, 5.5, Front Cover
Three Recent Career Achievements 업적 리스트	by the coexist	ence of ejectin	g and sliding bub	, "Flow boiling instability induced bles in subcooled flow boiling," <i>ansfer</i> , 179, 121711, 2021
(최근 세건)	II Woong Park, In Yeop Kang, Jia Yu, Yeon-Gun Lee, "Bubble lift-off diameter of lifting-off and ejecting bubbles in subcooled flow boiling," <i>International Communications in Heat and Mass Transfer</i> , 129, 105727, 2021			
Others 기타사항				



Name	Surname	Yoon		
성함	Given Name	Sang-Hee		
Position 직급	Profess	sor	Gender 성별	■ Male □ Female
<b>Department</b> 소속학과	Mechanical Er	ngineering	<b>Major</b> 소속전공	Mechanical Engineering
Contact	Email		shyoon(	@inha.ac.kr
Information	Telephone		+82-32	2-860-7314
연락처 정보	Home Page	https	://sites.google.co	m/site/yoonresearchgroup
Monthly Stipend Proveded or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	Master <u>1</u> / Ph.D <u>1</u>
<b>Research Field</b> 연구분야 설명	<ul> <li>Muscle-inspired nanocomposites with controllable mechanoelectrical properties</li> <li>Piezoresistive high-g accelerometers</li> <li>Mechanical low-pass filters for high-g accelerometers</li> <li>Inertial igniters for small thermal batteries</li> </ul>			
Three Recent Career Achievements 업적 리스트 (최근 세건)	<ul> <li>Park S, Song S, Yoon S-H. Ultrasonication-induced and diluent-assisted suspension polymerization for size-controllable synthesis of polydimethylsiloxane droplets. Colloids and Surfaces A: Physicochemical and Engineering Aspects. 2022;644:128827</li> <li>Bae M, Woo S, Lee JM, Lee W, Yoon S-H. A prediction model for photopatternable thickness of photocurable polymer nanocomposites containing carbon-based high-aspect-ratio fillers. Composites Science and Technology. 2022;218:109207.</li> <li>Ha S, Choi Y, Lee W, Kim Y, Yoon S-H. Prediction of mechanical properties of graphite nanoflake/polydimethylsiloxane nanocomposites as affected by processing method. Composites Part B: Engineering. 2021;224:109186.</li> </ul>			
Others 기타사항	innovations inspire aim to develop di mission is equiv <u>nanoengineering</u> i devices (includin engineering solution mechanical syste	ed by the soluti sruptive techn valently place n hopes of c g sensors a ons; and <u>vibrat</u> ms at high-g	ions existed in bic ology solutions fo d on: microelecti developing micro nd actuators) v t <u>ion</u> for lighting the environment. Ou	or studying novel engineering ological evolution, with the ultimate or complex human problems. Our romechanical systems ( <u>MEMS)/</u> /nanoscale tools for new-concept which far surpass conventional e way for the use and protection of ir research is performed through ials engineering, micro/nanoscale



	C		~			
Name	Surname Given Name			houng ponmo		
Position	Full profe	essor	Gender	■ Male □ Female		
Department	naval arch. and		Major	Ship and offshore structures		
_	Email	jmchoung@ii	<u>nha.ac.kr</u>			
Contact Information	Telephone	+82 10 8604 7346				
	Home Page	http://sose.in	ha.ac.kr/			
Monthly Stipend	∎ Yes	🗆 No	Required	Master (2 vacancies)		
Proveded or Not			Manpower	Ph.D. (2 vacancies)		
	<ul> <li>Research for m</li> </ul>	aterials and o	ductile fracture			
	· · · · · · · · · · · · · · · · · · ·	J ST15-U ST30-U ST45-U	- To develop new	r fracture models against ship		
		355	collisions, and u	underwater explosions.		
			- To conduct mat	erial calibration tests and		
			structural failure	e tests using 50tonf UTM and		
			5tonf HTM (high speed test machine).			
	<ul> <li>Research for floating offshore wind turbines (FOWT)</li> </ul>					
Research Field	Input low	Bilden legne Dagan leger	- New OPB fatig	ue prediction technique.		
			- Fully coupled a	ero-hydro-structure-mooring		
			dynamics technique.			
	Later Body	99 2) 3 + 62 ((2 - 4 <sup>+</sup> )) ((2 <sup>+</sup> + 4 <sup>+</sup> )) + 623)	- ANN (artificial r	neural network) model for FOWT.		
	<ul> <li>Research for ice-to-arctic vessel interactions</li> </ul>					
			- Ship-to-ice res	istance simulations using FEA		
	- Ice crushing mechanics based on continuum					
	1, m	Ticsion	theory			
	Student can study	the problems	that they introduc	ced or identified.		
Career Achievements	Students can cond	centrate on sp	ecial projects.			
	Students can be a	be author of popular publications.				
	<ul> <li>Laboratory fact</li> </ul>	ilities				
	- 50tonf UTM for monotonic strength tests and cyclic fatigue tests suited with					
	temperature cha	mber from -20	0 to +300			
	- 5tonf HTM for high speed strain rate tests suited with temperature chamber					
Others	<ul> <li>Monthly payme</li> </ul>	ent				
	- more than one m	nillion KRW for	a master studen	t and two million KRW for a Ph.D.		
	student					
	<ul> <li>Annual incentivity</li> </ul>	ve				
	- abt 1 million KRV	V for a master	student and abt 2	2 million KRW for a Ph.D. student		
	1					



Name	Surname			Oh	
성함	Given Name			ngyeop	
Position 직급	Assistant Professor		Gender 성별	■ Male  □ Female	
<b>Department</b> 소속학과	Polymer Engineering Major 소속전공 Polymer Engineering			Polymer Engineering	
	Email	Email <u>d.oh@inha.ac.kr</u>			
Contact	Telephone	+82-32-860	-7486		
Information 연락처 정보		https://sites.	google.com/vie	w/dongyeop-oh	
	Home Page		ar.google.co.kr/	citations?user=2qpLZXAAAA	
		<u>AJ&amp;hl=ko</u>			
Monthly Stipend Provided or Not 생활비 지급 의사	• Yes	⊐ No	<b>Required</b> Manpower 필요인력 수	(How Many) Master1 / Ph.D1	
	- Smart/Self-Res	sponsive Poly	mers using Nat	ural Polymers	
Research Field	- Plastic Upcycli	ng/Recycling	Technologies		
연구분야 설명	- Sustainable High-Performance Vegan Leathers				
		•	0	rironmental Applications	
	"A self-healing nanofiber-based self-responsive time-temperature indicator for securing a cold-supply chain." <i>Advanced Materials</i> 32.11 (2020): 1907064.				
Career Achievements 업적 리스트 (Recent 3 ones)	"Sustainable and recyclable super engineering thermoplastic from biorenewable monomer." <i>Nature communications</i> 10.1 (2019): 2601.				
	Ultrastiff hydrogels <i>Nature Materials</i> 2024.01.05 <i>in press</i>				
Others 기타사항		or industrial r	•	ate students are working on s, and thus are being financially	



Name	Surname	ame Kwak			
성함	Given Name		Hyo-Bum		
Position 직급	Profess	sor	Gender 성별	■ Male □ Female	
<b>Department</b> 소속학과	Program in Bi Science & En		<b>Major</b> 소속전공	Exercise Physiology	
Contact	Email		kwakhb	@inha.ac.kr	
Information	Telephone		+82-032	2-860-8183	
연락처 정보	Home Page		http://ier	m.inha.ac.kr	
Monthly Stipend Provided or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	(How Many) Master <u>1</u> / Ph.D. <u>1</u>	
Research Field 연구분야 설명	<ul> <li>Regulation of mitochondrial function and insulin resistance in skeletal muscle: role of aging, obesity, and exercise</li> <li>Effects of aging and exercise on mitochondrial function, ROS, and apoptosis in skeletal muscle ("sarcopenia"), heart, and brain</li> <li>Lipid metabolism and mitochondrial function in skeletal muscle</li> </ul>				
Career Achievements					
업적 리스트 (Recent 3 ones)	Re-setting the circadia	an clock using ex	ercise against sarcop	eenia, Int J Mol Sci, 21(9): 3106, 2020	
	Effects of aging and e Pflugers Arch, 472(2)		on mitochondrial fun	ction and apoptosis in the rat heart,	
Others 기타사항	<ul> <li>Ongoing Research Projects (Funding)</li> <li>Development of healthy aging technology against sarcopenia based on integrative exercise medicine (2019 - 2025)</li> <li>Beneficial effects and mechanisms of exercise training on sarcopenic obesity-induced metabolic diseases (2018 - 2023)</li> <li>BK21 Program in Biomedical Science and Engineering (2020 – 2027)</li> </ul> My Current Lab Members <b>Training on sarcopenic obesity induced metabolic diseases</b>				



Name	Surname	Kim			
성함	Given Name		Dong Wook		
Position 직급	Professor		Gender 성별	Male 🗆 Female	
<b>Department</b> 소속학과	Chemis	try	<b>Major</b> 소속전공	Organic Chemistry	
Contact	Email		kimdw@	@inha.ac.kr	
Information	Telephone		032-8	360-7679	
연락처 정보	Home Page				
Monthly Stipend Proveded or Not 생활비 지급 의사	∎ Yes 🗆	l No	Required Manpower 필요인력 수	Master / Ph.D	
Research Field 연구분야 설명	Our laboratory exp	lores novel bio	logically active m	Chemistry, Molecular Imaging. olecules that can be developed as unctions related to currently issued	
Three Recent	Production of Metal-Free C, N Alternating Nanoplatelets and Their In Vivo Fluorescence Imaging Performance without Labeling. <i>Adv. Funct. Mater.</i> <b>2020</b> , <i>30</i> , 2004800 (IF: 16.836)				
Career Achievements 업적 리스트	Macrophage cell tracking PET imaging using mesoporous silica nanoparticles via in vivo bioorthogonal F-18 labeling. <i>Biomaterials</i> <b>2019</b> , <i>199</i> , 32–39 (IF: 10.317)				
(최근 세건)	Hydrogen-bond promoted nucleophilic fluorination: concept, mechanism an applications in positron emission tomography. <i>Chem. Soc. Rev.</i> <b>2016</b> , <i>45</i> , 4638 (IF 40.443)				
Others 기타사항	Based on knowledge of organic chemistry, our group has developed labeling method of radioisotope and modified model compound to an adequate labeled compound wi a reasonable pharmacophore model. Interdisciplinary our research programintegrates concepts from medicinal chemistry, labeling chemistry, and organ synthesis/methodology, which target new radiopharmaceuticals with the help noninvasive imaging techniques for in vitro and in vivo characterization.				



Name	Surname		F	<sup>o</sup> ark
성함	Given Name	ven Name Soo-Jin		oo-Jin
Position 직급	Profess	sor	Gender 성별	■ Male □ Female
<b>Department</b> 소속학과	Department of	Chemistry	<b>Major</b> 소속전공	Surface chemistry
Contact	Email		sjpark@	)jinha.ac.kr
Information	Telephone		+82-32	-876-7234
연락처 정보	Home Page		sjpark.	inha.ac.kr
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes [	□ No	Required Manpower 필요인력 수	Master / Ph.D1
Research Field 연구분야 설명	Carbonaceous materials Polymer composites Interface science Energy storage materials			
Three Recent Career Achievements 업적 리스트 (최근 세건)	Supercapacitors: Large-Scale Conductive Yarns Based on Twistable Korean Traditional Paper (Hanji) for Supercapacitor Applications: Toward High- Performance Paper Supercapacitors / Advanced Energy Materials 8, 1801854 Facile construction of MoO <sub>3</sub> @ZIF-8 core-shell nanorods for efficient photoreduction of aqueous Cr (VI) / Applied Catalyst B: Environmental 240, 92- 101 A rational design of cellulose-based heteroatom-doped porous carbons: Promising contenders for CO <sub>2</sub> adsorption and separation / Chemical			
<b>Others</b> 기타사항	Engineering Journal <b>420</b> , 130421 All graduates accepted for our Lab will be financially supported by the government grants and other research grants. The main projects of our laboratory are as below. - Development of Intermetallic catalyst (IMC) model and decomposition of diesel vehicle exhaust emissions - Development of photocatalysts-based frame for VOCs adsorption and removal - Development of GDL (Gas diffusion layer) system and its model predictive control system - Development of lithium pretreatment technology to improve the irreversible 90% and high-capacity anode materials for electric vehicles			



Surname		ł	Kang	
Given Name		Dong Won		
Assistant Pr	ofessor	Gender 성별	■ Male □ Female	
Chemis	stry	<b>Major</b> 소속전공	Inorganic Chemistry	
Email		dwkang	@inha.ac.kr	
Telephone		+82-32	2-860-7675	
Home Page	https://	/sites.google.com	n/view/imekang/home?pli=1	
∎ Yes	□ No	Required Manpower 필요인력 수	Master / Ph.D1	
<b>Research Field: Inorganic Chemistry, Material Chemistry, Molecular</b> <b>Engineering</b> - Design, synthesis, characterization, and postsynthetic functionalization of two or three-dimensional covalent-organic frameworks (COFs), metal-organic frameworks (MOFs), porous organic polymers (POPs), and hydrogen-bonded organic frameworks (HOFs). Furthermore, we have focused composite materials containing emerging porous materials for practical applications like accenture, photoastal polymers.			n, and postsynthetic lent-organic frameworks (COFs), c polymers (POPs), and urthermore, we have focused materials for practical	
Wavelength engineerable porous organic polymer photosensitizers with protonation triggered ROS generation", <i>Nat. Commun.</i> 2023, <i>14</i> , 1498.         Enhanced Energy Transfer in A π-Conjugated Covalent Organic Framework Facilitates Excited-State Nickel Catalysis", <i>Angew. Chem. Int. Ed.</i> 2023, <i>135</i> (11), e202218908.			t. Commun. <b>2023</b> , <i>14</i> , 1498. I Covalent Organic Framework ew. Chem. Int. Ed. <b>2023</b> , <i>135</i> (11),	
-		••		
We're recruiting foreign graduate students. We pursue a democratic and social lab environment rather than a hierarchical one. ALL applicants MUST have fluent English language skills (If you can speak Korean, it is better but not important)." Monthly Stipend is dependent on current funding situation.				
	Given Name Assistant Pr Chemis Email Telephone Home Page Ves Research Field: I Engineering - De functionalization c metal-organic frar hydrogen-bonded composite materia applications like g Wavelength protonation Enhanced En Facilitates Excite Covalent Organ Mitochondria-Targ We're recruiting fo environment rathe ALL applicants MI it is better but not	Given Name         Assistant Professor         Chemistry         Email         Telephone         Home Page         https://         ■ Yes         No         Research Field: Inorganic Chee         Engineering - Design, synthesis         functionalization of two or three-         metal-organic frameworks (MOF         hydrogen-bonded organic frame         composite materials containing e         applications like gas capture, ph         Wavelength engineerable         protonation triggered ROS         Enhanced Energy Transfer i         Facilitates Excited-State Nicke         Covalent Organic Framework         Mitochondria-Targeted Photodyr         We're recruiting foreign graduate         environment rather than a hierar         ALL applicants MUST have fluer         it is better but not important)."	Given Name Dor Assistant Professor Gender 성별 Chemistry Major 소속전공 Email dwkang Telephone +82-32 Home Page https://sites.google.com Yes □ No Required Manpower 필요인력 수 Research Field: Inorganic Chemistry, Material Engineering - Design, synthesis, characterization functionalization of two or three-dimensional cova metal-organic frameworks (MOFs), porous organin hydrogen-bonded organic frameworks (HOFs). Fu composite materials containing emerging porous applications like gas capture, photocatalysis, and Wavelength engineerable porous organic proportionation triggered ROS generation", Nate Enhanced Energy Transfer in A π-Conjugated Facilitates Excited-State Nickel Catalysis", Ange e202218908. Covalent Organic Framework with Staggered S Mitochondria-Targeted Photodynamic Therapy", of We're recruiting foreign graduate students. We p environment rather than a hierarchical one. ALL applicants MUST have fluent English languagi it is better but not important)."	



Name	Surname			Min	
성함	Given Name		Kyung-Jin		
Position 직급	Profess	sor	Gender 성별	■ Male □ Female	
Department 소속학과	Biological S	ciences	Major 소속전공	Biology of Aging	
Contact	Email		minkj@	)inha.ac.kr	
Information	Telephone		+82-32	2-860-8193	
연락처 정보	Home Page		http://biogeror	ntology.inha.ac.kr/	
Monthly Stipend Proveded or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	Master <u>1</u> / Ph.D. <u>1</u>	
			CALORIE	RESTRICTION	
<b>Research Field</b> 연구분야 설명	<ul> <li>RADIATION</li> <li>microbiota</li> <li>ANTI-AGING REAGENTS</li> <li>host</li> <li>host</li> <li>example</li> <li>Study of Dietary Restriction and Longevity</li> <li>Searching for Anti-aging Drugs and Its Mechanisms</li> <li>Microbiota and Aging</li> <li>Physiological Response to Low Dose Radiation</li> </ul>				
Three Recent Career	in N	Iodel Organism	ns, Nutrient (2020	estriction and Intermittent Fasting )), 12(4): 1194-1217 nent of Hippo Signaling, Binds to	
Achievements 업적 리스트		Enhances York		origenesis, Frontiers in Cell and	
(최근 세건)		n of ACE2- Me	senchymal Stem	Cells Improves the Outcome of I Disease (2020), 11(2): 216-228	
	9		ab. of Biogeront	tology in Inha University	
				rrently one post-doc and one	
<b>Others</b> 기타사항				and has been supported by th Foundation of Korea. We can	
714718				pports for your study.	



Name	Surname			Cho
성함	Given Name		Jang-Cheon	
Position 직급	Profess	sor	Gender 성별	■ Male □ Female
<b>Department</b> 소속학과	Biological S	ciences	Major 소속전공	Microbiology Molecular Microbial Ecology
Contact	Email	<u>chojc@inha.a</u>	<u>ac.kr</u>	
Information	Telephone	+82-32-860-7	7711	
연락처 정보	Home Page	http://www.ch	olabinha.org	
Monthly Stipend Provided or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	(How Many) Master <u>2</u> / Ph.D. <u>2</u>
Research Field 연구분야 설명	<ol> <li>Cultivation of Unculture Microbes from diverse environments         <ul> <li>Ocean, Lake, Groundwater</li> <li>Novel physiology of novel microorganisms</li> </ul> </li> <li>Microbial genomics, Metagenomics, and Microbiome analyses</li> <li>Phage isolation and genomics</li> <li>Viral metagenomics and Phage-borne antibiotic resistance genes</li> </ol>			biome analyses
Career Achievements 업적 리스트 (Recent 3 ones)	<ul> <li>2020. Freshwater viral metagenome reveals novel and functional phage- borne antibiotic resistance genes. <i>Microbiome</i> 8:75.</li> <li>2019. Culturing the ubiquitous freshwater actinobacterial acl lineage by supplying a biochemical 'helper' catalase. <i>ISME J.</i> 13(9):2252-2263</li> <li>2019. Spindle-shaped viruses infect marine ammonia-oxidizing thaumarchaea. <i>Proc. Natl. Acad. Sci (USA).</i> 116(31):15645-15650.</li> </ul>			
Others 기타사항	My lab has currently 1 research professor, 3 post-docs, 2 PhD students and 3 master students. They are all supported by national research grants. Recently the department has won a grant called BK21-Four, designed for supporting graduate students' scholarship and stipend funded by Korea NRF. My lab maintains "High-Throughput Bacterial Culture Collection" called IMCC, containing over 10,000 bacterial strains, so graduate students may start their research without delay.			



Name	Surname			Son	
성함	Given Name		Sejin		
Position 직급	Associate Prof	fessor	Gender 성별	Female	
<b>Department</b> 소속학과	Biological Sci	ence	<b>Major</b> 소속전공	Biomedical Science	
Contact	Email		ssejin@	⊉inha.ac.kr	
Information	Telephone		032-8	860-7693	
연락처 정보	Home Page		https://ww	w.son-lab.com	
Monthly Stipend Proveded or Not 생활비 지급 의사	Yes		Required Manpower 필요인력 수	Master / Ph.D2	
<b>Research Field</b> 연구분야 설명	environment and coord with the complexity of seeks to design, const systems capable of int action of biopharmace With solid ground on F biomaterials, bioengin gene therapy, our tear tools and principles to biopharmaceuticals fo proposed studies will r	Son Laboratory is interested in elucidating how biomaterials interact with biological environment and coordinate biological/immunological functions, in order to better deal with the complexity of disease progression. As disease is getting complicated, our team seeks to design, construct, and evaluate an unique, sophisticated bio- and nano- systems capable of interacting with disease microenvironment to promote the precise action of biopharmaceuticals including genes, vaccine components, and antibodies. With solid ground on PI's diverse research and educational backgrounds covering biomaterials, bioengineering, micro- and nanotechnologies, immune-oncology and gene therapy, our team aims to develop new and multidisciplinary biomaterials-based ools and principles to modulate immune responses and promote the precise action of biopharmaceuticals for cancer, infectious disease, and autoimmune disease. The proposed studies will not only contribute to understanding of the largely unexplored nterdisciplinary research areas of material science, immunology and cancer biology,			
				otherapy, 2019, Nature Reviews	
Three Recent	Materials 4(6), 398-41	4			
Career Achievements 업적 리스트				d on Polyethyleneimine for ed Science 8 (5), 2002577	
(최근 세건)	Sugar-nanocapsules imprinted with microbial molecular patterns for mRNA vaccination,				
	<u>2020,</u> Nano letters 20 (3), 1499-1509				
Others 기타사항	<ul> <li>PI, Sejin Son, has built diverse research backgrounds in biomedical research covering biomaterials, gene therapy, vaccine, and cancer immunotherapy in preclinical setting to make technology translation, resulting in publications in many high profile journals including Nature Biomedical Engineering (In revision), Nature Review Materials, Nature Communications, Advanced Science, ACS nano, Advanced Functional Materials, Nano Letters, and many others.</li> <li>PI has been working with many students from diverse backgrounds in gender, ethnicity (Vietnam, Myanmar, Canada, India, Pakistan, Canada, US) culture, and research fields at Harvard Medical School and University of Michigan for 8 years.</li> <li>She has mentored more than 12 students providing them with guidance in career development as well as technical skills in bench work.</li> <li>You are strongly encouraged to apply the lab if you are self-driven and highly motivated student to improve your technical skills in this cutting-edge and hot research topic and to culture leadership to be a promising independent scientist in coming years.</li> <li>Benefit: Eligible students expect to receive full support of living cost, and attending international conferences.</li> </ul>				



Name	Surname	urname Lee		Lee	
성함	Given Name		Wookey		
Position 직급	Full Profe	essor	Gender 성별	Male	
<b>Department</b> 소속학과	Industrial Eng Biomedical Engineering( Industrial Security	Science (BMSE),	<b>Major</b> 소속전공	Database, Deep Learning	
Contact	Email		trinity@	<u>Dinha.ac.kr</u>	
Information	Telephone		+82)03	2-860-7371	
연락처 정보	Home Page			-	
Monthly Stipend Proveded or Not 생활비 지급 의사	Yes		Required Manpower 필요인력 수	Master / Ph.D _3_	
<b>Research Field</b> 연구분야 설명	<ul> <li>i.i.d. (0.6.0.0)</li> <li>i.i.d. (0</li></ul>				
Three Recent Career Achievements 업적 리스트 (최근 세건)	Jafar Afshar, Arousha Haghighian Roudsari, Wookey Lee: Top-k team synergy problem: Capturing team synergy based on C3. Inf. Sci. 589: 117-141 (2022) Arousha Haghighian Roudsari, Jafar Afshar, Wookey Lee, Suan Lee: PatentNet: multi-label classification of patent documents using deep learning based language understanding. Scientometrics 127(1): 207-231 (2022) Wookey Lee, Jessica Jiwon Seong, Busra Ozlu, Bong Sup Shim, Azizbek Marakhimov, Suan Lee: Biosignal Sensors and Deep Learning-Based Speech Recognition: A Review. Sensors 21(4): 1399 (2021)				
<b>Others</b> 기타사항	We are recruiting	passionate stu	idents. Who has	high interest on Deep Learning	



Name	Surname			Lee
Indifie	Given Name		Gua	in-hong
Position	Professor		Gender	✓ Male  □ Female
Department	Ocean So	ciences	Major	Oceanography
	Email		ghlee@	)inha.ac.kr
Contact Information	Telephone		+82-32	-860-7707
	Home Page		<u>https://p-g</u> l	hlee.inha.ac.kr
Monthly Stipend Proveded or Not	✓ Yes □ No	Required	Manpower	(How Many) Master / Ph.D1
		• Sediment Dy		l and Estuarine Morphodynamics
	complex hydrody environments. No	namics and se wadays, huma	diment transport ns have modified	Laboratory (CEML) explores the of both the coastal and estuarine these environments through large pminant processes.
<b>Research Field</b> 연구분야 설명	To aid our understanding, we utilize survey instruments such as RTK-GPS, altimeters, and UAVs to collect survey data. These data are visualized using GIS software (e.g., ArcGIS) and are analyzed to understand morphological changes. We then deploy field instruments such as ADV, ADCP, OBS, and ABS to measure flow velocity and suspended sediment concentration to understand sediment dynamics of morphologic changes. Recently, we employed numerical models to gain a holistic understanding of the spatiotemporal variation of sediment transport and morphodynamics, and to predict the morphologic change due to sea-level rise and anthropogenic alterations.			
Three Recent Career Achievements 업적 리스트 (최근 세건)	<ul> <li>Jung, N. W., et al. (2021). MorphEst: An Automated Toolbox for Measuring</li> <li>Estuarine Planform Geometry from Remotely Sensed Imagery and Its Application to the South Korean Coast. Remote Sensing, 13(2), 330.</li> <li>Chang, J., et al. (2020). Sediment transport mechanisms in altered depositional environments of the Anthropocene Nakdong Estuary: A numerical modeling study. <i>Marine Geology</i>, 106364.</li> <li>Figueroa, S. M., et al. (2020). Evaluation of along-channel sediment flux gradients in an anthropocene estuary with an estuarine dam. <i>Marine Geology</i>, 429, 106318.</li> </ul>			
Others 기타사항		e Along-channel width Shape S <sub>p</sub> = Length/Width matigner Length Length Large S <sub>p</sub>	A) Station M1 1 1 (Hydrodynamics) A) Station M1 1 1 TRBM 1 ADCP TRBM 1 ADCP TR	A S Sediment Bransport) A S Sediment Bransport) A S Sediment Bransport) A S Sediment Bransport A S Sediment Bransport A S Sediment Bransport A S S Sediment Bransport A S S S S S S S S S S S S S S S S S S S



Name	Surname			Lee
성함	Given Name		Ja	ie Woo
Position 직급	Profess	sor	Gender 성별	🗹 Male 🛛 Female
<b>Department</b> 소속학과	Physic	cs	<b>Major</b> 소속전공	Statistical Physics
Contact	Email		jaewlee	@inha.ac.kr
Information	Telephone		82-32	-860-7660
연락처 정보	Home Page	htt	ps://sites.google.	com/view/compsysbdai/
Monthly Stipend Proveded or Not 생활비 지급 의사	⊠ Yes	□ No	Required Manpower 필요인력 수	Master <u>1</u> / Ph.D <u>1</u>
<b>Research Field</b> 연구분야 설명	<ul> <li>Complex Systems AI Big Data Lab</li> <li>We are interesting to topics complex systems, machine learning, artificial intelligence, big data based on statistical physics and critical phenomena Research Area</li> <li>Complex Systems and Complex Networks</li> <li>Nonequilibrium statistical physics</li> <li>Econophysics</li> <li>Social Physics</li> <li>Ecological Systems and Ecological Networks</li> <li>Brain Dynamics and Self-Organized Criticality</li> <li>Futures Studies</li> </ul>			
Three Recent			•	tween transmission of malaria in p. 12, 14392 (2022).
Career Achievements 업적 리스트 (최근 세건)	J. W. Lee and A.	complex netw Nobi, "State a	vorks", Chaos 30, nd network struct	integrate-and-fire neural model on , 063118 (2020). tures of stock markets around the nics 51, 195-210 (2018) (SSCI).
	Current internat			
<b>Others</b> 기타사항	<ol> <li>Quang Anh Le, Vietnam</li> <li>Former students         <ol> <li>Ashadun Nobi, Bangladeshi (Now, Professor in Bangladeshi)</li> <li>Biseco Juma Mafwele, Tanzania (Now, Researcher in Tanzania)</li> </ol> </li> </ol>			
	I recommend that http:// www.stuc			Korea Scholarship:



Name	Surname	Jung		
성함	Given Name		JongHoon	
Position 직급	Profess	sor	Gender 성별	■ Male □ Female
Department 소속학과	Physic	cs	Major 소속전공	Condensed Matter Experiments
Contact	Email		jhjung@	@inha.ac.kr
Information	Telephone		+82-32	2-860-7659
연락처 정보	Home Page		https://qfm	nl.cafe24.com/
Monthly Stipend Proveded or Not 생활비 지급 의사	■ Yes [	⊐ No	Required Manpower 필요인력 수	Master <u>1</u> / Ph.D <u>1</u>
<b>Research Field</b> 연구분야 설명	We are aiming at (i) the synthesis of transition-metal oxide (sulfide, nitride) with single crystal, thin film, and nano-particle(rod) forms, (ii) the understanding of their physical (structural, electrical, magnetic, and optical) properties through the close correlation between charge, spin, orbital, and lattice degrees of freedom, and (iii) the realization of new functional devices related to information technology and energy-harvesting technology. Current Topics - Basic Science and Technological Application of Contact Electrification - Emerging Phenomena in Flexible Transition Metal Oxides			
		ature Measure	ment during Meta	eat and Triboelectric Charge: In al-Polymer Physical Contact,
Three Recent Career Achievements 업적 리스트		riboelectric Na	nogenerators: Ro	ower Output in Ferroelectric ble of Dipole Charge versus S (2022)
(최근 세건)	H. S. Kim et al., Ferroelectrically augmented contact electrification enables efficient acoustic energy transfer through liquid and solid media, Energy Environ. Sci. 15, 1243 (2022)			
	Current international Post-Doc. 1. Dheeraj Kumar (India)			
Others 기타사항	<ul> <li>Former international Post-Doc. and student</li> <li>1. Naresh Kumar (India) [Current: Professor, Motilal Nehru National Institute of Technology]</li> <li>2. Taufik Bonaedy (Indonesia) [Current: Researcher in Indonesia]</li> <li>3. Preetam Singh (India) [Current: Research Associate, Centre of Nanotechnology, Indian Institute of Technology Roorkee]</li> <li>4. Huidrom Hemojit Singh (India) [Current: DST INSPIRE Faculty, National Institute of Technology Manipur]</li> </ul>			



Name	Surname			Lee
성함	Given Name		Geunseop	
Position 직급	Profess	sor	Gender 성별	■ Male □ Female
<b>Department</b> 소속학과	Physic	S	<b>Major</b> 소속전공	Condensed matter Physics
Contact	Email		glee@	)inha.ac.kr
Information	Telephone		82-32	-860-7668
연락처 정보	Home Page		http://surface	-nano.inha.ac.kr/
Monthly Stipend Proveded or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	Master / Ph.D1
<b>Research Field</b> 연구분야 설명	<ul> <li>Growing ultrathin films and fabricating nanostructures on surfaces and characterizing their physical properties in atomic and nanometer scale</li> <li>Phase transitions in reduced dimensionality, and explore the influences of defects/impurities in the phase transition</li> <li>Investigating charge density waves and topological properties in low-dimensional system, particularly in two-dimensional materials.</li> </ul>			
Three Recent Career Achievements 업적 리스트 (최근 세건)	<ul> <li>"Unveiling the origin of <i>n</i>-type doping of natural MoS2: carbon", npj 2D Mater Appl.</li> <li>7, 60 (2023).</li> <li>True First-Order Surface Phase Transition without nanoscale Phase Separation", ACS Nano 17, 11764 (2023)</li> <li>"Intertwined Solitons and Impurities in a Quasi-One-Dimensional Charge-Density-Wave System: In/Si(111)", Geunseop Lee, Hyungjoon Shim, Jung-Min Hyun, Hanchul Kim, Phys. Rev. Lett. 122, 016102 (2019).</li> </ul>			
Others 기타사항	Our group (surface-Nano Laboratory) has wide interests in many fields in fabricating nanostructures at surfaces and characterizing their physical properties in atomic and nanometer scale. Utilizing scanning tunneling microscopes (STM) in the Lab and photoelectron spectroscopy (PES) in synchrotron fascility, we investigate atomic and electronic structures of ultrathin films grown on metals and semiconductor surfaces and two-dimensional materials. We study various condensed-matter physics at surfaces and 2D matertials, including phase transitions in reduced dimensionality, charge density waves and topological properties, and explore the influences of defects/impurities in such phase transitions.			



Name	Surname		ł	Kang
성함	Given Name		Ju	u-Hee
Position 직급	Full Profe	essor	Gender 성별	■ Male □ Female
<b>Department</b> 소속학과	Pharmacology, Medici	-	<b>Major</b> 소속전공	Pharmacology
Contact Information	Email	johykang@inh	a.ac.kr	
연락처 정보	Telephone	+82-32-860-98	372	
<b>Monthly Stipend</b> Proveded or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	(How Many) Master / Ph.D1_
Research Field 연구분야 설명	<ul> <li>Neurodegenerative disease         <ul> <li>Neurodegenerative disease</li> <li>Development of biomarkers for early diagnosis of Alzheimer's disease (AD) und collaboration with clinicians</li> <li>Investigation for the pathogenic roles of exosome-like vesicles (ELV) in AD pathogenesi</li> <li>Aging-induced Sarcopenia and metabolic diseases</li> <li>Novel molecular mechanisms underlying aging-induced sarcopenia, a skeletal musc dysfunction associated with frailty in elderly population: major target is extracellul molecules, myokines, and adipokines.</li> <li>Preventive or therapeutic effects of various molecules against the aging-induced sarcopenia; Pharmacological mechanisms of action</li> <li>Integrative research under collaboration with colleagues who are experts in exercise science.</li> </ul> </li> <li>Based on the efforts of above, we hope to discover the novel molecular mechanisms or netword between peripheral tissues and central nervous system.         <ul> <li>Metabolic disease</li> <li>Agl/Tau pathology</li> <li>Protein modification/Autophagy</li> <li>Neuroinflammation</li> <li>Muscle</li> <li>Agl/Tau pathology</li> <li>Neuroinflammation</li> <li>HT22 neuronal cell</li> <li>Astrocytes, Microglia</li> <li>Adjrokines</li> <li>Adjokines</li> <li>Adjokines</li> </ul> </li> </ul>			
Career Achievements 업적 리스트 (Recent 3 ones)	<ul> <li>Moon S., et al. Enrichment of Exosome-Like Extracellular Vesicles from Plasma Suitable for Clinical Vesicular miRNA Biomarker Research. (2019) Journal of Clinical Medicine, 8(11) E1995</li> <li>Kim S, et al., Roles of Exosome-Like Vesicles Released from Inflammatory C2C12 Myotubes: Regulation of Myocyte Differentiation and Myokine Expression. (2018) Cellular Physiology and Biochemistry, 48:1829-1842.</li> <li>Kang JH, et al., CSF biomarkers associated with disease heterogeneity in early Parkinson's disease: the Parkinson's Progression Markers Initiative study. (2016) Acta Neuropathologica,131:935-949</li> </ul>			
<b>Others</b> 기타사항	Neuropathologica, 131:935-949         Currently, 1 senior researcher, 1 research associate and 2 graduate students work in my lab.         They work several projects which are supported by national research grants. Monthly stipend will be provided, however, it should be noted that the amount of stipend will be dependent on the grants available. The high level of English (score of IBT≥80, IELTS≥6.0) or Korean (TOPIK≥3) is required to join my lab.         NOTE: The information above should be used for appropriate purpose, therefore please don't release other institutions or universities without permission.			



Name	Surname	Yi		
성함	Given Name		Jin	Wook
Position 직급	Assistant Pr	ofessor	Gender 성별	■ Male □ Female
Department 소속학과	Medicine, S	Surgery	Major 소속전공	Endocrine surgery
Contact	Email		jinwook.y	<u>vi@inha.ac.kr</u>
Information	Telephone		+82-32	2-890-3437
연락처 정보	Home Page			
Monthly Stipend Proveded or Not 생활비 지급 의사	🗆 Yes 🛛	■ No	Required Manpower 필요인력 수	Master <u>1</u> / Ph.D _1_
Research Field 연구분야 설명	Research field: Ć - Available froze - Biomedical dat	an: thyroid cancer, parathyroid and adrenal tumor field: Cancer bioinformatics e frozen stored cancer tissue and cancer cell lines ical data analysis from microarray and NGS (RNA sequencing) iologic experiments: cell culture, RT-PCR, Western blot, etc.		
	Choi YS, Choi SW, Yi JW. Prospective Analysis of TERT Promoter Mutations in Papillary Thyroid Carcinoma at a Single Institution. J Clin Med. 2021 May 18;10(10):2179.			
Three Recent Career		expression ar	nd survival of pat	se reverse transcriptase ients with papillary thyroid
Achievements 업적 리스트 (최근 세건)	Kim M, Kim SJ, Xu Z, Ha SY, Byeon JH, Kang EJ, Shin SH, Yoo SK, Jee HG, Yoon SG, Yi JW, Bae JM, Yu HW, Chai YJ, Cho SW, Choi JY, Lee KE, Han W. BRAFV600E Transduction of an SV40-Immortalized Normal Human Thyroid Cell Line Induces Dedifferentiated Thyroid Carcinogenesis in a Mouse Xenograft Model. Thyroid. 2020 Apr;30(4):487-500.			HW, Chai YJ, Cho SW, Choi JY, ction of an SV40-Immortalized ses Dedifferentiated Thyroid
Others 기타사항	Endocrine surgery is a field of general surgery that gives surgical treatment for various endocrine disorders, such as thyroid, parathyroid and adrenal gland. In the modern society, endocrine surgery is becoming more important because the increased incidence of endocrine related cancers and hormone associated structural disease. My laboratory is equipped with an environment where basic research can be performed using surgically removed endocrine cancer tissue and cancer cell lines. In particular, I have abundant experience in research related to microarray and next-generation sequencing, so I can teach students about clinical application using the biomedical big data analysis. Currently, research is being carried out as a national project to confirm cell appearance, genomic and epigenetic changes by culturing various cancer cells in a zero-gravity environment. I would like to have the opportunity to do research with a sincere student who will study together.			



Name	Surname		(	Choi	
성함	Given Name		Jeong-Seok		
Position 직급	Profess	sor	Gender 성별	■ Male  □ Female	
<b>Department</b> 소속학과	Medici	ne	<b>Major</b> 소속전공	Otorhinolaryngology- Head and Neck Surgery	
Contact	Email		jschoi@	<u>)inha.ac.kr</u>	
Information	Telephone		+82-32	-890-2438	
연락처 정보	Home Page				
Monthly Stipend Proveded or Not 생활비 지급 의사	∎ Yes	□ No	Required Manpower 필요인력 수	Master <u>1</u> / Ph.D _1	
<b>Research Field</b> 연구분야 설명	ANTIOXIDANTS SALTRAY GLADS			the Development of New Therapeutics of new treatments by identifying cluding: mage n cell derived exosome therapy id)	
Three Recent	Adiponectin is associated with inflammaging and age-related salivary gland lipid accumulation. Aging (Albany NY) 2023 Mar 27;15(6):1840-1858.				
Career Achievements 업적 리스트	Platelet-rich plasma loaded nerve guidance conduit as implantable biocompatible materials for recurrent laryngeal nerve regeneration NPJ Regen Med 2022 Sep 14;7(1):49				
(최근 세건)	Cell-derived vesicles from adipose-derived mesenchymal stem cells ameliorate irradiation-induced salivary gland cell damage Regen Ther. 2022 Oct 18;21:453-459.				
<b>Others</b> 기타사항	- All graduates ac grants and other r	•		ally supported by the governmen	

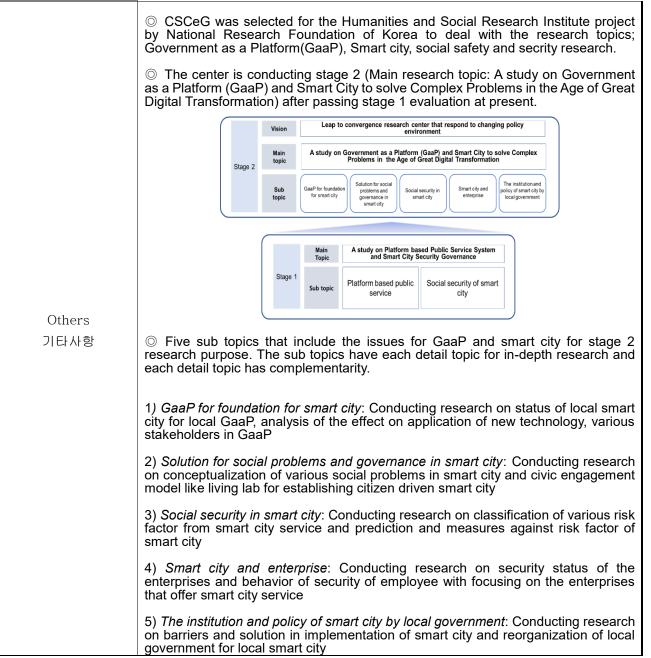


	_				
Name 성함	Surname	Jung			
	Given Name	Young-Jin			
Position 직급	Profess	Professor		⊠ <u>Male</u> □ Female	
<b>Department</b> 소속학과	Graduate Sch	ool of Law	<b>Major</b> 소속전공	Corporation Law, Bankruptcy Law, Data Law, AI Law etc	
Contact	Email / WeChat	junglaw@inha.ac.kr / neovarsa			
Information	Telephone	+82(0)10-6394-5050			
연락처 정보	Home Page	https://ilseng.inha.ac.kr/user/ilseng/			
Monthly Stipend Provided or Not 생활비 지급 의사	□ Yes	<u>V No</u>	Required Manpower 필요인력 수		
<b>Research Field</b> 연구분야 설명	Since its founding in 1976, INHA University's Law School has graduated many prominent legal scholars, judges and lawyers. Backed by the rich history, academic strength and reputation of INHA Law School, Chinese Law Center has progressed to become a leading institute in legal education and research in Korea. Within the complex is a comprehensive Law Library, moot court, computer labs and classrooms. Chinese Law Center of INHA Law School prides itself in its top-notch education programs and facilities and strives to provide the best learning conditions for its researchers.				
Brief Record of Prof. Dr. Dr. Jung 약력	Director of Chinese Law Center of INHA Law School Vice Chairman of the Korea-China Society of Law Ph.D. in Law (East China University of Political Science and Law, 2020) Ph.D. in Law (Korea University, 2013) LL.M (Northwestern Law School, 2003) Attorney (N.Y. Bar Association, 2004) Attorney (Korean Bar Association, 1999)				
Others 기타사항	You can contact us by mail, phone, email, or visit our office at any time for any request or inquire in Chinese/English/Korean. Contact Person: Prof./Dr. JUNG Young Jin(丁莹镇) Telephone: +82(0)10-6394-5050 E-mail: junglaw@inha.ac.kr WeChat ID: neovarsa				



Name 성함	Surname	Myeong		
	Given Name	Seunghwan		
Position 직급	Profess	sor Gender 성별		■ Male  □ Female
<b>Department</b> 소속학과	Public admir	istration Major 소속전공		Industrial security governance
Contact Information 연락처 정보	Email	shmyeong@inha.ac.kr		
	Telephone	+82)328607951		
	Home Page	https://inhacs.modoo.at/		
Monthly Stipend Proveded or Not 생활비 지급 의사	∎ Yes	□No	Required Manpower 필요인력 수	Master 3 / Ph.D 3
Research Field 연구분야 설명	<ul> <li>Center for Security Convergence and eGovernance (CSCeG) was established to conduct e-Governance, smart city, various informatization issues, and convergence security research.</li> <li>The center aims to reveal policy agenda and draw policy implication in the age of digital transformation with focusing on Government as a Platform (GaaP) and smart city.</li> </ul>			
Three Recent Career Achievements 업적 리스트 (최근 세건)	<ul> <li>Bokhari, S. A. A., &amp; Myeong, S. (2023). Influence of Government Innovation Initiatives on Responsive E-governance: An Empirical Analsysis on Government Response to COVID-19 Pandemic in Pakistan. Lex localis-Journal of Local Self- Government, 21(4), 992-1019.</li> <li>Myeong, S., &amp; Bokhari, S. A. A. (2023). Building Participative E-Governance in Smart Cities: Moderating Role of Institutional and Technological Innovation. Sustainability, 15(20), 15075.</li> <li>Bokhari, S. A. A., &amp; Myeong, S. (2023). The Impact of AI Applications on Smart Decision-Making in Smart Cities as Mediated by the Internet of Things and Smart Governance. IEEE Access, 11, 120827-120844.</li> </ul>			







Name	Surname	Kim (Oh)			
성함	Given Name	Youngsoon (Youngsub)			
Position 직급	Dean, Profess	⊥ sor, Director Gender ⊿ੁ ਤੁਬੁ Male □ Fem			
Department 소속학과	The Convergene Multicultural St Department of Multic Program in Huma	udies(CIMS): cultural Education,	<b>Major</b> 소속전공	Cultural Study, Multicultural Education, Humanities Therapy	
	Email	kimysoon@inha.ac.kr, yesoh@inha.ac.kr			
Contact Information 연락처 정보	Telephone	032-860-7867(Kim), 032-860-7907(Oh) 032-860-8741(CIMS Office)			
	Home Page	<ol> <li>The Convergence Institute for Multicultural Studies http://www.cims.kr</li> <li>Korean Association of International Culture Exchange <u>http://kaice.kr</u></li> <li>Humanities Convergence Therapy Center</li> </ol>			
Monthly Stipend Provided or Not 생활비 지급 의사	■ Yes	http://humanct.con	<u>n/</u> Required Manpower 필요인력 수	(How Many) Master1_ / Ph.D9	
<b>Research Field</b> 연구분야 설명	<ol> <li>Multicultural Education</li> <li>Multicultural Education Policy</li> <li>Multicultural Leisure</li> <li>Multicultural Counseling</li> <li>Korean Language</li> <li>Multicultural Economic Education</li> <li>Multicultural Literacy</li> <li>Multicultural Literacy</li> <li>Multicultural Literary and Practice</li> <li>Humanities Therapy</li> <li>Narrative therapy</li> <li>Psychotherapy and Communication</li> <li>Art convergence therapy</li> <li>Drama/Film convergence therapy</li> <li>Music convergence therapy</li> </ol>				
Three Recent Career	- Literature convergence therapy Theories and Scholars of Multicultural Education (Book Korea, 2017)				



Achievements 업적 리스트	Multicultural Education and Coexistence Humanities (DBbooks, 2017)			
(최근 3건)	Homo Narraticus (Paradigm Book, 2022)			
Others 기타사항	<ol> <li>Department of multicultural education was established in 2011 in order to cultivate academic and practical leaders and experts in multicultural education by analyzing policies and practices necessary for social integration of foreigners residing in Korea in response to such changes and demands of the times. Faculty members consist of diverse majors from Social Education, Korean Language Education, and Arts and Sports. Courses include multicultural education theory, educational policy theory, multicultural curriculum theory, multicultural family child education and counseling, multicultural education leadership, Korean language and culture education theory, multicultural counseling, and multicultural welfare. Master/Ph.D degrees in education are granted if the required credits, major exams, thesis, etc. are completed.</li> <li>Program in Humanities Therapy was established in 2018 in order to actively cope with integrative therapeutic approach to factors that threaten the physical and mental health of modern people in our rapidly changing society. This program aims to help modern people cope with physical and mental problems by utilizing various field of humanities, art and media, leading emotional recognition and rich lives as well as physical health. In connection with various studies such as pedagogy, medicine, psychology, sociology, and counseling studies, this program actively exchange knowledge and explore academic theories and treatment methods in depth. In addition, this program trains experts in music, art, dance, and literature through field-oriented clinical training in cooperation with related institutions such as nearby university hospitals, social welfare institutions, and community service and counseling centers. As humanities convergence counseling experts, graduates from this program will work</li> </ol>			
	in hospitals, special clinics, social welfare institutions, children and youth centers, cultural centers, rehabilitation centers, nursing homes, and research institutes.			
	3. Scholarship: Diverse opportunities of on-campus scholarships and off-campus scholarship may be provided including Inha Vision Scholarship, etc.			



Name 성함	Surname	Cho		
	Given Name	Young min		
Position 직급	profess	sor Gender 성별		🗹 Male 🛛 Female
<b>Department</b> 소속학과	Design conv	ergence Major 소속전공		Graphic design
Contact Information	Email	megeneration@inha.ac.kr		
	Telephone	032-860-7898		
연락처 정보	Home Page	www.choym.com		
Monthly Stipend Proveded or Not 생활비 지급 의사	() Yes (	(o) No Required Manpower Master <u>1-2</u> / Ph.D 필요인력 수		Master <u>1-2</u> / Ph.D
<b>Research Field</b> 연구분야 설명	All fields about visual communication design - Graphic design - Identity design - Brand strategy & design - Package design			
Three Recent	2020 - Brand Identity Design, INFACE			
Career Achievements 업적 리스트	2020 - Naming & Product (Vanding Machine) Design for Social Economy 'soft box'			
입적 리스트 (최근 세건)	Character Design of KFGO (Korea Federation of Former Government Officials) 'MARU & MAREE'			
Others 기타사항	Brand Strategy Lab, Dept. Visual Communication, Inha University is Think-Tank for experimental visual solution through various design strategy, visual expression, and process by joining with undergraduate and graduated students as well as professor Cho, young min			



#### Language Eligibility ① Those who meet one of below 3 options are allowed to apply

- Applicants who have TOPIK level 3 or above

- Applicants who have completed level 4 or higher of the Korean language course established by

university in Korea (level 5 or higher is needed for the department of which eligibility is

TOPIK 4, level 6 is needed for the departments of which eligibility is TOPIK 5)

#### Language Eligibility 2 Those who meet one of below 4 options are allowed to apply

- Applicants who meet the "Language Eligibility ①" above

- Applicants who have English proficiency certificate of below score/level or above

TOEFL (IBT 71), TOEIC (700), IELTS (5.5), NEW TEPS(327)

- Applicants who want to apply for the digital business major must satisfy English Eligibility.

- Applicant who has completed degree program(Bachelor or Master) in USA, Canada, UK, Australia, New Zealand, India, Singapore, South Africa

- Applicant whose nationality is American, Canadian, British, Australian, New Zealander, Indian, Singaporean, South African