

# 2023 Summer KAI-X

# Research Internship Program

KAIST Advanced Institute for Science-X(KAI-X) holds the 2023 Summer KAI-X Research Internship Program that provides full support for undergraduate(3rd/4th year) and graduate(master course) students who want to experience research activity in the laboratory at KAIST.

Applicants interested in the field of natural science including Physics, Chemistry, Mathematics, Biology, and Medical Science are invited to participate in this program.



## ELIGIBILITY

Students of natural science field

- 3rd or 4th year of undergraduate students and graduate students(master course) only

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## INTERNSHIP OUTLINE

Period : June 26 ~ August 18 (8 weeks)

Venue : KAIST Campus at Daejeon, KOREA

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## APPLICATION PERIOD

Feb 20 ~ April 7

Send the application form to [kai-x@kaist.ac.kr](mailto:kai-x@kaist.ac.kr) along with an OFFICIAL transcript, a proof of enrollment, and a letter of recommendation

- \* Please make everything ONE PDF file, and the file name should be your name
- \* Only a letter of recommendation can be sent separately if needed
- \* All documents should be official English version issued by universities
- \* If selected, you will be assigned to one lab among the labs you applied for and conduct research during the internship period
- \* Result will be notified individually in 3 weeks after the open call closes

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## SUPPORT

Round-trip airfare, dormitory/stay expenses will be supported by KAI-X

- \* KAI-X will reserve the airline ticket/dorms and give the confirmation
- \* KAI-X supports round-trip airfare and in case flight schedule deviate from the internship period by a week or more, explanatory statement is required
- \* Before check-in dorms every attendees is required to get tested for COVID-19/lung X-ray in Korea, and pay about USD 50 by yourselves for those checkup

Please refer to the following web pages

- ▶ KAIST Homepage
- ▶ KAIST Board to get detailed information of KAI-X Internship
- ▶ Handbook of KAIST Life for international students

# SCHEDULE

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Jun. 26	Jun. 27	Jun. 28~Aug. 16	Aug. 17	Aug. 18
Arrival Check-in dorms	Opening Ceremony	Research Internship at assigned labs	Closing Ceremony	Departure Check-out dorms

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# INQUIRY

kai-x@kaist.ac.kr



KAIST Academic Cultural Complex ( Library )

# 2023 Summer KAI-X Research Internship Program

Fill in this application form, and email to [kai-x@kaist.ac.kr](mailto:kai-x@kaist.ac.kr), along with an OFFICIAL transcript, a proof of enrollment, and a letter of recommendation. Please make everything ONE pdf file (file name=your name)

<b>Applicant</b>	<b>Name</b>	First name : Family name :	Sex (F/M)	
	<b>Affiliation</b>	University name / Country / Department e.g. KTH Royal Institute of Technology /Sweden /Physics		
	<b>Departing city</b>			
	<small>*Departing city/sex info is required for flight/dorm reservation</small>			
	<b>Period</b>	June 26~August 18, 2023 (8 weeks)		
<b>Write 3 Lab names for Internship (from the lab list)</b>	Lab name ( Director's name)			

## Activity Plan

Please write an essay **up to 1,200 words**, including why you apply for this internship, why you choose the labs you listed up, and what you plan to do with the lab(s) etc.

[Attach 2 Lab List]

**[Appendix] Lab List for 2023 Summer KAI-X Research Internship Program**

no.	Department	Lab name	Research field	Lab Director	Email	Website
1	Physics	Quantum Computing Lab (QCL)	Quantum Computing	Ahn, Jaewook	jwahn@kaist.ac.kr	<a href="http://qcl.kaist.ac.kr">http://qcl.kaist.ac.kr</a>
2	Physics	Theory of Ultrafast Quantum phenomena Lab	Theoretical Optics, Quantum Optics, Ultrafast Photonics. Ultrafast light-matter interactions	Andrey Moskalenko	moskalenko@kaist.ac.kr	<a href="https://tuqp.kaist.ac.kr">https://tuqp.kaist.ac.kr</a>
3	Physics	Quantum Transport Lab	Condensed Matter Experiment - Nanostructured Correlated Materials -Spintronic Devices	Cho, Sungjae	sungjae.cho@kaist.ac.kr	<a href="http://qtak.kaist.ac.kr">http://qtak.kaist.ac.kr</a>
4	Physics	Quantum & Nanobio Photonics Lab	Semiconductor Physics	Cho, Yong-Hoon	yhc@kaist.ac.kr	<a href="http://qnp.kaist.ac.kr">http://qnp.kaist.ac.kr</a>
5	Physics	CULTure (Choi's Ultra Low Temperature) LAB	Ultra Low Temperature Quantum Fluids	Choi, Hyungsoon	h.choi@kaist.ac.kr	<a href="http://www.absoluteze.ro">http://www.absoluteze.ro</a>
6	Physics	Ultracold atoms & quantum simulation Lab	Research on many-body quantum phenomena in ultracold atomic gases	Choi, Jae-yoon	jaeyoon.choi@kaist.ac.kr	<a href="http://jyplab.kaist.ac.kr">http://jyplab.kaist.ac.kr</a>
7	Physics	Ultrafast Lasers & Photonics Lab.	Optics, Laser Physics	Fabian Rotermund	rotermund@kaist.ac.kr	<a href="http://ulpl.kaist.ac.kr">http://ulpl.kaist.ac.kr</a>
8	Physics	Electronic Structure Theory Group	Condensed Matter Theory	Han, Myung Joon	mj.han@kaist.ac.kr	<a href="https://sites.google.com/site/myungjoonhan">https://sites.google.com/site/myungjoonhan</a>
9	Physics	Theoretical Particle Physics and Quantum Field Theory	Theoretical Particle Physics and Quantum Field Theory	Hong, Sungwoo	sungwooh@kaist.ac.kr	-
10	Physics	Complex Systems and Statistical Physics Lab	Statistical/Computational physics: Understanding complex systems via D.N.A.(Data,Network,AI)	Jeong, Hawoong	hjeong@kaist.edu	<a href="http://stat.kaist.ac.kr">http://stat.kaist.ac.kr</a>
11	Physics	Micro/Submicro Optics Laboratory	Optics	Kang, Myeong Soo	mskang@kaist.ac.kr	<a href="http://optics.kaist.ac.kr">http://optics.kaist.ac.kr</a>
12	Physics	OQT(opto-quantumics) Lab	Optics, Quantum optics	Kim, Donggyu	dngkim@kaist.ac.kr	<a href="https://oqt.kaist.ac.kr">https://oqt.kaist.ac.kr</a>
13	Physics	Center for Supersolid and Quantum Matter Research	Low Temperature Physics	Kim, Eunseong	eunseong@kaist.ac.kr	<a href="http://supersolid.kaist.ac.kr">http://supersolid.kaist.ac.kr</a>
14	Physics	Quantum Field Theory and	Quantum Field Theory and	Kim, Heeyeon	heeyeon.kim@kaist.ac.kr	-

no.	Department	Lab name	Research field	Lab Director	Email	Website
		Mathematical Physics Group	Mathematical Physics			
15	Physics	Ultrafast Spin Dynamics Lab	Spintronics	Kim, Kab-Jin	kabjin@kaist.ac.kr	<a href="http://spintronics.kaist.ac.kr">http://spintronics.kaist.ac.kr</a>
16	Physics	Quantum Spin Dynamics Laboratory	Theories for fundamental physics of magnetism and superconductivity	Kim, Se Kwon	sekwonkim@kaist.ac.kr	<a href="https://sites.google.com/site/sekwonkimphysics">https://sites.google.com/site/sekwonkimphysics</a>
17	Physics	Electronic structure Research LABORatory(ERLab)	Condensed Matter Experiment / Strongly correlated sytem, unconventional superconductivity / Angle resolved photoemission spectroscopy	Kim, Yeongkwan	yeongkwan@kaist.ac.kr	<a href="https://erlab.kaist.ac.kr">https://erlab.kaist.ac.kr</a>
18	Physics	Statistical Physics Theory Group	Statistical Physics Theory	Kim, Yong Woon	y.w.kim@kaist.ac.kr	<a href="http://statphys.kaist.ac.kr">http://statphys.kaist.ac.kr</a>
19	Physics	Quantum nano-bio Materials Simulation Group (QnMSG)	Quantum Materials Simulation / Condensed Matter Theory	Kim, Yong-Hyun	yong.hyun.kim@kaist.ac.kr	<a href="https://qnmsg.kaist.ac.kr/">https://qnmsg.kaist.ac.kr/</a>
20	Physics	Nanophotonics System Laboratory	Optics, Micro/nano-Photonic Devices	Lee, Hansuek	hansuek@kaist.ac.kr	<a href="https://www.hleelab.org">https://www.hleelab.org</a>
21	Physics	Particle Theory Group	Theoretical Particle Physics	Lee, Hye-Sung	hyesung.lee@kaist.ac.kr	<a href="https://force.kaist.ac.kr/">https://force.kaist.ac.kr/</a>
22	Physics	Applied Spintronics Lab.	Spintronics	Lee, Kyung-Jin	kjlee@kaist.ac.kr	<a href="https://sites.google.com/site/kyungjinlee1/">https://sites.google.com/site/kyungjinlee1/</a>
23	Physics	Quantum Matter Theory Group	Quantum Theory	Lee, Sungbin	sungbin@kaist.ac.kr	<a href="https://sites.google.com/view/qmtle">https://sites.google.com/view/qmtle</a>
24	Physics	Microfluidics & Biosensor Lab.	Calorimetric biosensors-Inertial microfluidics	Lee, Wonhee	whlee153@kaist.ac.kr	<a href="http://mfbsl.kaist.ac.kr/">http://mfbsl.kaist.ac.kr/</a>
25	Physics	Artificial Matter Group	Optics	Min, Bumki	bmin@kaist.ac.kr	<a href="http://photonics.kaist.ac.kr/">http://photonics.kaist.ac.kr/</a>
26	Physics	Quantum Many Body Theory Group	Quantum Theory	Moon, Eun-Gook	egmoon@kaist.ac.kr	<a href="https://sites.google.com/view/egmoon">https://sites.google.com/view/egmoon</a>
27	Physics	Biomedical Optics Laboratory	Biomedical Optics	Park, YongKeun	yk.park@kaist.ac.kr	<a href="http://bmol.kaist.ac.kr">http://bmol.kaist.ac.kr</a>
28	Physics	Quantum Optics and Quantum Infromation Lab	Quantum optics and quantum information	Ra, Young-Sik	ysra@kaist.ac.kr	<a href="http://qoqi.kaist.ac.kr/">http://qoqi.kaist.ac.kr/</a>
29	Physics	Sub-Wavelength Optics Lab	Optics	Seo, Min-Kyo	minkyoo_seo@kaist.ac.kr	<a href="http://swol.kaist.ac.kr">http://swol.kaist.ac.kr</a>
30	Physics	Quantum Electron Correlation and Transport Laboratory	Condensed Matter Theory	Sim, Heung-Sun	hssim@kaist.ac.kr	<a href="http://qet.kaist.ac.kr">http://qet.kaist.ac.kr</a>
31	Physics	heoretical Particle Physics Lab	Particle Physics	Son, Minho	minho.son@kaist.ac.kr	-

no.	Department	Lab name	Research field	Lab Director	Email	Website
32	Physics	Quantum Field Theory & String Theory Group	Quantum field theory and string theory	Song, Jaewon	jaewon.song@kaist.ac.kr	<a href="https://sites.google.com/site/jws611/">https://sites.google.com/site/jws611/</a>
33	Physics	Complex Heterostructures & Advanced Researches on Multiferroics Lab(CHARM)	Experimental Condensed Matter Physics	Yang, Chan-Ho	chyang@kaist.ac.kr	<a href="http://oxide.kaist.ac.kr/">http://oxide.kaist.ac.kr/</a>
34	Physics	Quantum Energy Device Lab	Quantum Energy Device Physics	Yang, Heejun	h.yang@kaist.ac.kr	<a href="https://sites.google.com/site/csnsyang/">https://sites.google.com/site/csnsyang/</a>
35	Physics	Multi-Dimensional Atomic Imaging Lab(MDAIL)	Atomic Electron Tomography study on 2-d heterostructure system, functional interface system	Yang, Yongsoo	yongsoo.yang@kaist.ac.kr	<a href="http://mdail.kaist.ac.kr">http://mdail.kaist.ac.kr</a>
36	Physics	Center for Axion and Precision Physics Research	Elementary Particle Physics and Particle Astrophysics	Yannis Semertzidis	yannis@kaist.ac.kr	<a href="http://capp.ibs.re.kr/html/capp_en/">http://capp.ibs.re.kr/html/capp_en/</a>
37	Chemistry	The Baek Group	Inorganic and Organometallic Chemistry, Catalysis	Baek, Yunjung	yunjungbaek@kaist.ac.kr	<a href="http://baeklab.kaist.ac.kr">http://baeklab.kaist.ac.kr</a>
38	Chemistry	Baik Laboratory ComputationalMolecularModeling	Inorganic / Organometallic / Computational Chemistry	Baik, Mu-Hyun	mbaik2805@kaist.ac.kr	<a href="http://baik-laboratory.com/">http://baik-laboratory.com/</a>
39	Chemistry	Electrochemical Materials Design Laboratory	Electrochemistry and Nanoscience	Byon, Hye Ryung	hrbyon@kaist.ac.kr	<a href="http://www.emdl.kaist.ac.kr">http://www.emdl.kaist.ac.kr</a>
40	Chemistry	Center for Catalytic Hydrocarbon Functionalizations	Organic Chemistry	Chang, Sukbok	sbchang@kaist.ac.kr	<a href="http://sbchang.kaist.ac.kr/">http://sbchang.kaist.ac.kr/</a>
41	Chemistry	INSUNG S. CHOI'S LAB	Organic Chemistry	Choi, Insung S.	ischoi@kaist.ac.kr	<a href="http://cisgroup.kaist.ac.kr/">http://cisgroup.kaist.ac.kr/</a>
42	Chemistry	Molecular Logic Gate Laboratory	Bioinorganic and Molecular Neurodegenerative Research	David G. Churchill	dchurchill@kaist.ac.kr	<a href="http://churchill.kaist.ac.kr">http://churchill.kaist.ac.kr</a>
43	Chemistry	Center for Nanotectonics	Physical and Nanochemistry	Han, Sang Woo	sangwoohan@kaist.ac.kr	<a href="http://ntl.kaist.ac.kr/">http://ntl.kaist.ac.kr/</a>
44	Chemistry	The Han Laboratory at KAIST	Organic Chemistry	Han, Sunkyu	sunkyu.han@kaist.ac.kr	<a href="http://synthesis.kaist.ac.kr">http://synthesis.kaist.ac.kr</a>
45	Chemistry	Molecular Catalysis Lab	Organic Chemistry and Catalysis	Hong, Soon Hyeok	soonhyeok.hong@kaist.ac.kr	<a href="http://sites.google.com/site/hongshgroup/">http://sites.google.com/site/hongshgroup/</a>
46	Chemistry	Drug Discovery & Organic Synthesis Lab	Organic, Medicinal Chemistry	Hong, Sungwoo	hongorg@kaist.ac.kr	<a href="http://ddnpslab.kaist.ac.kr/">http://ddnpslab.kaist.ac.kr/</a>
47	Chemistry	MOLECULAR STRUCTURAL DYNAMICS LABORATORY	Physical Chemistry and Biophysics	Ihee, Hyotcherl	Hyotcherl.Ihee@kaist.ac.kr	<a href="http://time.kaist.ac.kr/">http://time.kaist.ac.kr/</a>

no.	Department	Lab name	Research field	Lab Director	Email	Website
48	Chemistry	Jung Lab	Bio chemistry	Jung, Yongwon	ywjung@kaist.ac.kr	<a href="http://sites.google.com/site/ywjunglab/">http://sites.google.com/site/ywjunglab/</a>
49	Chemistry	Molecular Biophysics Laboratory	Biochemistry	Kang, Jin Young	jygang59@kaist.ac.kr	<a href="http://kanglab2019.wixsite.com/home">http://kanglab2019.wixsite.com/home</a>
50	Chemistry	M Design Lab	Physical Chemistry	Kim, Hyungjun	linus16@kaist.ac.kr	<a href="http://m-design.kaist.ac.kr">http://m-design.kaist.ac.kr</a>
51	Chemistry	HYUNWOO KIM GROUP	Organic chemistry	Kim, Hyunwoo	hwk34@kaist.ac.kr	<a href="https://www.mdos.kaist.ac.kr/">https://www.mdos.kaist.ac.kr/</a>
52	Chemistry	Intelligent Chemistry Lab	Intelligent Chemistry	Kim, Woo Youn	wooyoun@kaist.ac.kr	<a href="http://wooyoun.kaist.ac.kr">http://wooyoun.kaist.ac.kr</a>
53	Chemistry	Bio-Inspired Laboratory	Biomedical Engineering	Lee, Haeshin	haeshin@kaist.ac.kr	<a href="http://sticky.kaist.ac.kr">http://sticky.kaist.ac.kr</a>
54	Chemistry	BIOMIMETIC ORGANIC LABORATORY	Organic Chemistry	Lee, Hee-Seung	hee-seung_lee@kaist.ac.kr	<a href="http://hslee.kaist.ac.kr/">http://hslee.kaist.ac.kr/</a>
55	Chemistry	Center for MetalloNeuroProteinoChemistry	Bioinorganic / Bioorganic / Bioanalytical / Medicinal / Neurochemistry	Lim, Mi Hee	miheelim@kaist.ac.kr	<a href="https://sites.google.com/site/miheelimlab">https://sites.google.com/site/miheelimlab</a>
56	Chemistry	Molecular Synthetic Biology Laboratory	Biochemistry and Chemical Biology	Park, Hee-Sung	hspark@kaist.ac.kr	<a href="http://msbl.kaist.ac.kr">http://msbl.kaist.ac.kr</a>
57	Chemistry	SCALE Lab	Surface Chemistry and Physical Chemistry	Park, Jeong Young	jeongypark@kaist.ac.kr	<a href="http://scale.kaist.ac.kr">http://scale.kaist.ac.kr</a>
58	Chemistry	Transition Metal Catalysis & Mechanism Laboratory	Physical Chemistry and Bioinorganic chemistry	Park, Kiyung	kiyoung.park@kaist.ac.kr	<a href="http://kiyoungkaist.wixsite.com/tmcm">http://kiyoungkaist.wixsite.com/tmcm</a>
59	Chemistry	SUSTAINABLE CATALYSIS LAB	Organic and Inorganic Chemistry	Park, Yoonsu	yoonsu.park@kaist.ac.kr	<a href="http://ypark-lab.com/">http://ypark-lab.com/</a>
60	Chemistry	Computational Photodynamics Research Lab	Physical Chemistry	Rhee, Young Min	yrmhee@kaist.ac.kr	<a href="http://singlet.kaist.ac.kr/">http://singlet.kaist.ac.kr/</a>
61	Chemistry	Macromolecular Materials Chemistry Lab	Polymer Chemistry	Seo, Myungeun	seomyungeun@kaist.ac.kr	<a href="http://nanopsg.kaist.ac.kr">http://nanopsg.kaist.ac.kr</a>
62	Chemistry	Nanocatalyst Research Laboratory	Inorganic and Nanochemistry	Song, Hyunjoon	hsong@kaist.ac.kr	<a href="http://small.kaist.ac.kr">http://small.kaist.ac.kr</a>
63	Chemistry	Soft Material Assembly group	Applied Chemistry	Yoon, Dong Ki	nandk@kaist.ac.kr	<a href="https://www.yoonkaist.com/">https://www.yoonkaist.com/</a>
64	Medical Science	Laboratory of Regenerative Medicine	Angiogenesis, Lymphangiogenesis, Adipogenesis, Stem cell	Gou Young Koh	gykoh@kaist.ac.kr	<a href="https://vascular.ibs.re.kr/">https://vascular.ibs.re.kr/</a>



no.	Department	Lab name	Research field	Lab Director	Email	Website
65	Medical Science	integrative Biomedical Imaging Laboratory	Tissue engineering, 3D microscopic imaging	Taeyun Ku	taeyun@kaist.ac.kr	<a href="https://tkulab.org/">https://tkulab.org/</a>
66	Medical Science	The Laboratory of Molecular Immunology and Medicine	Immunology, Cell Biology	You-Me Kim	youmekim@kaist.ac.kr	<a href="http://mim.kaist.ac.kr/">http://mim.kaist.ac.kr/</a>
67	Medical Science	The Laboratory of Vascular Health and Disease	vascular biology, cancer biology	Injune Kim	injunek@kaist.ac.kr	<a href="http://www.vbsckim.com/">http://www.vbsckim.com/</a>
68	Medical Science	Laboratory of Disease Functional Genomics	Molecular genetics, Cell biology, Neuroembryology	Joon Kim	joonkim@kaist.ac.kr	<a href="https://sites.google.com/site/kaistjklab">https://sites.google.com/site/kaistjklab</a>
69	Medical Science	Laboratory for 3D Chromatin Dynamics	Chromatin, Epigenome, Biopharmaceutical	Ji Hun Kim	jihkim@kaist.ac.kr	<a href="https://jihunkim.kaist.ac.kr/">https://jihunkim.kaist.ac.kr/</a>
70	Medical Science	Genome Therapeutics Lab	Genomic Analysis + ASO (Antisense Oligonucleotide) Fast(<1 yr) & Inexpensive(<\$2M) Drug Development	Jinkuk Kim	jinkuk@kaist.ac.kr	<a href="https://jinkukkim.org/">https://jinkukkim.org/</a>
71	Medical Science	In Vivo Micro-Visualization Laboratory	Bio-Imaging	Pilhan Kim	pilhan.kim@kaist.ac.kr	<a href="http://ivmvl.kaist.ac.kr/">http://ivmvl.kaist.ac.kr/</a>
72	Medical Science	Molecular Diabetology Research Laboratory	Diabetes, obesity, NAFLD.	Hail Kim	hailkim@kaist.edu	<a href="https://imodkaist.wixsite.com/home">https://imodkaist.wixsite.com/home</a>
73	Medical Science	Disease Molecule Biochemistry Lab	X-ray Crystallography, Cryo-EM), Protein Engineering	Ho Min Kim	hm_kim@kaist.ac.kr	<a href="https://protein.ibs.re.kr/home">https://protein.ibs.re.kr/home</a>
74	Medical Science	Laboratory of Translational Immunology & Vaccinology	Immunology, Infectious Disease, Vaccine	Su Hyung Park	park3@kaist.ac.kr	<a href="https://ltiv.kaist.ac.kr/">https://ltiv.kaist.ac.kr/</a>
75	Medical Science	Single-cell medical genomics laboratory	Single-cell genomics, Transcriptomics, Cell biology, Immunology	Jong-Eun Park	jp24@kaist.ac.kr	<a href="https://sites.google.com/view/scmgikaist">https://sites.google.com/view/scmgikaist</a>
76	Medical Science	Integrated lab of Metabolism, Obesity, and Diabetes Research	Genetics, Development, Metabolism	Jae Myoung Suh	jmsuh@kaist.ac.kr	<a href="https://imodkaist.wixsite.com/home">https://imodkaist.wixsite.com/home</a>
77	Medical Science	Laboratory of Immunology & Infectious Diseases	Virology, Immunology	Eui-Cheol Shin	ecshin0@gmail.com	<a href="http://liid.kaist.ac.kr/">http://liid.kaist.ac.kr/</a>
78	Medical Science	Stem cell genetics lab	Stem cell biology, Cancer biology, Genetics, Single-cell multiomics	Min Kyu Yum	minkyu.yum@kaist.ac.kr	<a href="https://yumlab.kaist.ac.kr/">https://yumlab.kaist.ac.kr/</a>
79	Medical Science	Laboratory of Skin and Mucosal Immunology	Immunology, Dermatology	Ji Eun Oh	jieun.oh@kaist.ac.kr	<a href="https://sites.google.com/view/kaist-ohlab">https://sites.google.com/view/kaist-ohlab</a>

no.	Department	Lab name	Research field	Lab Director	Email	Website
80	Medical Science	Cellular Immunology Laboratory	Immunology, Infectious disease	Seung-Hyo Lee	seung-hyo.lee@kaist.ac.kr	<a href="http://cilab.kaist.ac.kr/">http://cilab.kaist.ac.kr/</a>
81	Medical Science	Autoimmune Disease Lab.	Autoimmune disease, Chronic inflammation, Immune modulation	Jeong Seok Lee	chemami@kaist.ac.kr	<a href="https://sites.google.com/view/aidlab">https://sites.google.com/view/aidlab</a>
82	Medical Science	Translational Neurogenetics Laboratory	Neuroscience, Genomic Medicine	Jeong Ho Lee	jhlee4246@kaist.ac.kr	<a href="https://tnl.kaist.ac.kr/">https://tnl.kaist.ac.kr/</a>
83	Medical Science	Biomedical epigenetic engineering Lab.	Epigenetic Engineering, Cancer Metabolism	Ji Min Lee	jimin.lee@kaist.ac.kr	<a href="https://sites.google.com/view/jimin-lab">https://sites.google.com/view/jimin-lab</a>
84	Medical Science	Laboratory of Host Defenses	Immunology	Heung Kyu Lee	heungkyu.lee@kaist.ac.kr	<a href="https://www.heungkyulee.kaist.ac.kr/">https://www.heungkyulee.kaist.ac.kr/</a>
85	Medical Science	Computational Affective Neuroscience and Development Lab	Neuroscience	Bumseok Jeong	bs.jeong@kaist.ac.kr	<a href="https://drshrink.github.io/">https://drshrink.github.io/</a>
86	Medical Science	Laboratory of Liver Research	Hepatology / Neuro-Immuno-Metabolism Axis	Won-il Jeong	wijeong@kaist.ac.kr	<a href="http://llr.kaist.ac.kr/">http://llr.kaist.ac.kr/</a>
87	Medical Science	Laboratory of Cancer Genomics	Cancer Genomics, Somatic mosaicism	Young Seok Ju	ysju@kaist.ac.kr	<a href="https://www.julab.kaist.ac.kr/">https://www.julab.kaist.ac.kr/</a>
88	Medical Science	Brain-RNA lab	Stem cell biology, Neuroscience, MicroRNA	Jinju Han	jinjuhan@kaist.ac.kr	<a href="https://sites.google.com/view/jinjuhanlab">https://sites.google.com/view/jinjuhanlab</a>
89	Mathematical Science	Partial Differential Equations	Partial Differential Equations	Bae, Myoungjean	mjbae@kaist.ac.kr	<a href="https://sites.google.com/view/mjbae">https://sites.google.com/view/mjbae</a>
90	Mathematical Science	Algebra	Algebra	Baek, Sanghoon	sanghoonbaek@kaist.ac.kr	<a href="http://mathsci.kaist.ac.kr/~sbaek/">http://mathsci.kaist.ac.kr/~sbaek/</a>
91	Mathematical Science	Team for Academic Research on GEometric Topology	Topology, Geometry, eometric Topology, Geometric Group Theory, Hyperbolic Geometry	Baik, Hyungryul	hrbaik@kaist.ac.kr	<a href="http://mathsci.kaist.ac.kr/~hrbaik/">http://mathsci.kaist.ac.kr/~hrbaik/</a>
92	Mathematical Science	Calculus of Variations and Partial Differential Equations	Partial Differential Equations	Jaeyoung Byeon	byeon@kaist.ac.kr	<a href="http://mathsci.kaist.ac.kr/~byeon/">http://mathsci.kaist.ac.kr/~byeon/</a>
93	Mathematical Science	Statistical Learning and Applications	Statistical Learning and Applications	Cheolwoo Park	parkcw2021@kaist.ac.kr	<a href="https://sites.google.com/view/parkcw/home?authuser=1">https://sites.google.com/view/parkcw/home?authuser=1</a>
94	Mathematical Science	Analysis, Dynamical Systems, Financial Mathematics	Analysis, Dynamical Systems, Financial Mathematics	Choe, Geon Ho	ghchoe@kaist.ac.kr	<a href="http://shannon.kaist.ac.kr/choe">http://shannon.kaist.ac.kr/choe</a>
95	Mathematical Science	Topology, Geometric structure, 3-Manifold	Topology, Geometric structure, 3-Manifold	Choi, Suhyoung	shchoimathp@kaist.ac.kr	<a href="http://mathsci.kaist.ac.kr/~schoi/">http://mathsci.kaist.ac.kr/~schoi/</a>
96	Mathematical Science	Statistics with High-Throughput data lab	Multivariate Statistics, Statistical Machine	Chun, Hyonho	hyonhochun@kaist.ac.kr	<a href="https://chunhyonho.github.io/">https://chunhyonho.github.io/</a>

no.	Department	Lab name	Research field	Lab Director	Email	Website
97	Mathematical Science	Bayesian inference,Biostatistics	Bayesian inference, Biostatistics	Chung, Yeonseung	dolyura@kaist.ac.kr	<a href="https://sites.google.com/view/yeonseungchung">https://sites.google.com/view/yeonseungchung</a>
98	Mathematical Science	Applied Mathematics, Queueing Theory and its Applications	Applied Mathematics, Queueing Theory and its Applications	Ganguk Hwang	guhwang@kaist.ac.kr	<a href="http://queue.kaist.ac.kr/~guhwang/">http://queue.kaist.ac.kr/~guhwang/</a>
99	Mathematical Science	Combinatorics Discrete Geometry	Combinatorics Discrete Geometry	Holmsen, Andreas	andreash@kaist.ac.kr	<a href="http://mathsci.kaist.ac.kr/~andreash/">http://mathsci.kaist.ac.kr/~andreash/</a>
100	Mathematical Science	Number theory, Arithmetic geometry	Number theory, Arithmetic geometry	Im, Bo-Hae	bhim@kaist.ac.kr	<a href="https://sites.google.com/view/imbh/home">https://sites.google.com/view/imbh/home</a>
101	Mathematical Science	Nonlinear Partial Differential Equation	Nonlinear Partial Differential Equation	Kang, Moon-Jin	moonjinkang@kaist.ac.kr	<a href="https://sites.google.com/site/moonjinkang81/">https://sites.google.com/site/moonjinkang81/</a>
102	Mathematical Science	Probability and Optimization with Applications	Operations Research / Financial Mathematics	Kang, Wanmo	wanmo.kang@kaist.ac.kr	<a href="https://sites.google.com/site/wanmokang/">https://sites.google.com/site/wanmokang/</a>
103	Mathematical Science	Optimization for Machine Learning Lab	Optimization Theory and Applications	Kim, Donghwan	donghwankim@kaist.ac.kr	<a href="http://mathsci.kaist.ac.kr/~donghwankim">http://mathsci.kaist.ac.kr/~donghwankim</a>
104	Mathematical Science	Combinatorial Theory, Enumerative Combinatorics	Combinatorial Theory, Enumerative Combinatorics	Kim, Dongsu	dongsu.kim@kaist.ac.kr	<a href="http://mathsci.kaist.ac.kr/~dskim">http://mathsci.kaist.ac.kr/~dskim</a>
105	Mathematical Science	Biomedical Mathematics Lab	Biomedical Mathematics Lab	Kim, Jae Kyoung	jaekkim@kaist.ac.kr	<a href="https://www.ibs.re.kr/bimag/">https://www.ibs.re.kr/bimag/</a>
106	Mathematical Science	Combinatorics, Graph Theory	Combinatorics, Graph Theory	Kim, Jaehoon	jaehoon.kim@kaist.ac.kr	<a href="https://sites.google.com/view/jaehoon-kim/home">https://sites.google.com/view/jaehoon-kim/home</a>
107	Mathematical Science	Number Theory and Arithmetic Geometry	Number Theory and Arithmetic Geometry	Kim, Wansu	wansu.math@kaist.ac.kr	<a href="https://sites.google.com/site/wansukimmaths/">https://sites.google.com/site/wansukimmaths/</a>
108	Mathematical Science	Partial Differential Equations Lab.	Applied Mathematics / Partial Differential Equations	Kim, Yong Jung	yongkim@kaist.ac.kr	<a href="http://amath.kaist.ac.kr/~ykim/">http://amath.kaist.ac.kr/~ykim/</a>
109	Mathematical Science	Algebraic Geometry and Commutative Algebra	Algebraic Geometry and Commutative Algebra	Kwak, Sijong	sjkwak@kaist.ac.kr	<a href="http://asarc.kaist.ac.kr/kwak/kwak.html">http://asarc.kaist.ac.kr/kwak/kwak.html</a>
110	Mathematical Science	Analysis of PDE	Analysis of PDE	Kwon, Soonsik	soonsikk@kaist.edu	<a href="https://mathsci.kaist.ac.kr/~soonsikk/">https://mathsci.kaist.ac.kr/~soonsikk/</a>
111	Mathematical Science	Probability Theory & Application	Probability Theory & Application	Kyeongsik Nam	ksnam@kaist.ac.kr	<a href="https://sites.google.com/view/ksnam">https://sites.google.com/view/ksnam</a>
112	Mathematical Science	Computational Mathematics and Imaging Lab.	Applied Mathematics / Computational Mathematics / Computational Imaging	Lee, Chang-Ock	colee@kaist.edu	<a href="http://amath.kaist.ac.kr/~colee/">http://amath.kaist.ac.kr/~colee/</a>
113	Mathematical Science	Stochastic Analysis and Application Research Center	Mathematical Physics / Probability Theory	Lee, Ji Oon	jioon.lee@kaist.edu	<a href="https://mathsci.kaist.ac.kr/~jioon/">https://mathsci.kaist.ac.kr/~jioon/</a>

no.	Department	Lab name	Research field	Lab Director	Email	Website
114	Mathematical Science	Algebraic Geometry	Algebraic Geometry	Lee, Yongnam	ynlee@kaist.ac.kr	<a href="https://mathsci.kaist.ac.kr/~ynlee/index.php?page=home">https://mathsci.kaist.ac.kr/~ynlee/index.php?page=home</a>
115	Mathematical Science	Mathematical analysis and numerical computation for composite materials	Inverse problems	Lim, Mikyoung	mklm@kaist.ac.kr	<a href="https://www.mikyounglim.net/">https://www.mikyounglim.net/</a>
116	Mathematical Science	Pluripotential Theory, Complex Geometry	Pluripotential Theory, Complex Geometry	Nguyen, Ngoc Cuong	cuongnn@kaist.ac.kr	-
117	Mathematical Science	Discrete Mathematics Group (DIMAG)	Discrete Mathematics / Graph Theory	Oum, Sang-il	sangil@kaist.edu	<a href="https://dimag.ibs.re.kr/home/sangil/">https://dimag.ibs.re.kr/home/sangil/</a>
118	Mathematical Science	Algebra, K-theory	Algebra, K-theory	Park, Jinhyun	jinhyun@mathsci.kaist.ac.kr	<a href="https://mathsci.kaist.ac.kr/~jinhyun/">https://mathsci.kaist.ac.kr/~jinhyun/</a>
119	Mathematical Science	Algebraic Geometry - positivity of line bundles and syzygies of algebraic varieties	Algebraic Geometry - positivity of line bundles and syzygies of algebraic varieties	Park, Jinhyung	parkjh13@kaist.ac.kr	<a href="https://sites.google.com/site/parkjh13/">https://sites.google.com/site/parkjh13/</a>
120	Mathematical Science	Topology, Knot Theory, Three and Four-dimensional Manifolds	Topology, Knot Theory, Three and Four-dimensional Manifolds	Park, JungHwan	jungpark0817@kaist.ac.kr	<a href="https://mathsci.kaist.ac.kr/~jungpark0817/">https://mathsci.kaist.ac.kr/~jungpark0817/</a>
121	Mathematical Science	Scientific Machine Learning	Scientific Machine Learning	Shin, Yeonjong	yeonjong_shin@kaist.ac.kr	<a href="https://sites.google.com/site/shinmathematics/">https://sites.google.com/site/shinmathematics/</a>
122	Biology	Molecular and Cellular Immunology Lab	Cancer Biology / Cell Biology / Human Disease / Immunology	Suk-Jo Kang	suk-jo.kang@kaist.ac.kr	<a href="https://sites.google.com/site/mcikaist/molecular-cellular-immunology-lab">https://sites.google.com/site/mcikaist/molecular-cellular-immunology-lab</a>
123	Biology	Cancer Metastasis and Epigenetics Lab	Cancer Biology / Cell Biology / Epigenetics	Mi Young Kim	miyoungkim@kaist.ac.kr	<a href="https://sites.google.com/kaist.edu/cmcl/home">https://sites.google.com/kaist.edu/cmcl/home</a>
124	Biology	Laboratory for Ecology	Biochemistry / Ecology / Molecular Biology / Plant Biology	Sang-Gyu Kim	sgkim1@kaist.ac.kr	<a href="https://sites.google.com/view/kimlab/home">https://sites.google.com/view/kimlab/home</a>
125	Biology	Laboratory of Metabolism Signaling Network	Biochemistry / Cell Biology / Molecular Biology	Seyun Kim	seyunkim@kaist.ac.kr	<a href="https://sites.google.com/site/seyunkimlab/">https://sites.google.com/site/seyunkimlab/</a>
126	Biology	RNA Genomics Laboratory	Biochemistry / Molecular Biology	Yoon Ki Kim	yk-kim@kaist.ac.kr	<a href="http://rna.korea.ac.kr/">http://rna.korea.ac.kr/</a>
127	Biology	Synaptic Brain Dysfunctions Lab	Brain Science / Human Disease / Neuroscience	Eunjoon Kim	kime@kaist.ac.kr	<a href="https://molneuro.kaist.ac.kr/contents/">https://molneuro.kaist.ac.kr/contents/</a>
128	Biology	Laboratory of Eukaryotic Transcription	Biochemistry / Epigenetics / Molecular Biology	Jaehoon Kim	jhoonkim@kaist.ac.kr	<a href="https://sites.google.com/a/kaist.edu/biochem-molbiol-lab/">https://sites.google.com/a/kaist.edu/biochem-molbiol-lab/</a>
129	Biology	Laboratory of Neural Development and Regeneration	Brain Science / Cell Biology / Developmental Biology /	Jin Woo Kim	jinwookim@kaist.ac.kr	<a href="https://sites.google.com/view/kaistneurodev">https://sites.google.com/view/kaistneurodev</a>

no.	Department	Lab name	Research field	Lab Director	Email	Website
			Neuroscience			
130	Biology	Lab of Immunotherapy	Bioengineering / Cancer Biology / Human Disease / Immunology / Synthetic Biology	Chan Hyuk Kim	Kimchanhyuk@kaist.ac.kr	<a href="https://immunotherapylab.wpcomstaging.com/">https://immunotherapylab.wpcomstaging.com/</a>
131	Biology	Molecular Metabolism and Exercise Biochemistry Lab	Biochemistry / Cell Biology / Endocrinology / Molecular Biology / metabolism	Hyeonwoo Kim	hyeonwookim@kaist.ac.kr	<a href="https://sites.google.com/view/kimlabatkaist">https://sites.google.com/view/kimlabatkaist</a>
132	Biology	Genome and Epigenome Engineering Lab	Bioengineering / Epigenetics / Molecular Biology / Synthetic Biology	Minhee Park	minheepark@kaist.ac.kr	<a href="https://sites.google.com/view/minheeparklabkaist">https://sites.google.com/view/minheeparklabkaist</a>
133	Biology	Lab of neural interoception	Brain Science / Neuroscience / Physiology	Greg Suh	seongbaesuh@kaist.ac.kr	<a href="https://www.suhlab-neuralinteroception.kaist.ac.kr/">https://www.suhlab-neuralinteroception.kaist.ac.kr/</a>
134	Biology	Neurophysiology Lab	Brain Science / Endocrinology / Neuroscience/ Physiology	Jong-Woo Sohn	jwsohn@kaist.ac.kr	<a href="https://sites.google.com/site/sohnlab2014/">https://sites.google.com/site/sohnlab2014/</a>
135	Biology	Structural biology laboratory of Epigenetics	Biochemistry / Epigenetics / Molecular Biology / Structural Biology	Ji-Joon Song	songjj@kaist.ac.kr	<a href="https://www.song-kaist.org/">https://www.song-kaist.org/</a>
136	Biology	Lab of Stem Cell & Tissue Regeneration	Epigenetics / Stem Cell / Tissue regeneration / Single cell genomics	Hanseul Yang	hyang@kaist.ac.kr	<a href="https://hyang881.wixsite.com/yanlab">https://hyang881.wixsite.com/yanlab</a>
137	Biology	Therapeutic Protein Design & Structural Biology Laboratory	Immunology / Structural Biology	Byung-Ha Oh	bhoh@kaist.ac.kr	<a href="https://sites.google.com/view/tpdsb/home">https://sites.google.com/view/tpdsb/home</a>
138	Biology	Laboratory of Neural Stem Cell Biology	Developmental Biology / Neuroscience / Stem Cell / Brain Disease	Ki-Jun Yoon	kijunyon@kaist.ac.kr	<a href="https://www.yoonlab.info/">https://www.yoonlab.info/</a>
139	Biology	Chromatin Biology Laboratory	Biochemistry / Bioinformatics / Epigenetics / Genetics/ Microbiology	Daeyoup Lee	daeyoup@kaist.ac.kr	<a href="https://sites.google.com/site/kaistchromatin/">https://sites.google.com/site/kaistchromatin/</a>
140	Biology	Center for RNA-Mediated Healthy Longevity	Genetics / Immunology / Neuroscience / aging / longevity / C. elegans	Seung-Jae V. Lee	seungjaevlee@kaist.ac.kr	<a href="https://sites.google.com/view/mgakaist">https://sites.google.com/view/mgakaist</a>
141	Biology	Sensory processing Lab	Brain Science / Neuroscience	Seung-Hee Lee	shlee1@kaist.ac.kr	<a href="https://sites.google.com/site/leelab2013/">https://sites.google.com/site/leelab2013/</a>
142	Biology	Laboratory of Molecular Oncogenetics	Cancer Biology Cell Biology / Developmental Biology / Molecular Biology	Dae-Sik Lim	daesiklim@kaist.ac.kr	<a href="https://dlim.kaist.ac.kr/">https://dlim.kaist.ac.kr/</a>

no.	Department	Lab name	Research field	Lab Director	Email	Website
143	Biology	Applied Microbiology and Biotechnology Lab	Bioengineering / Microbiology / Molecular Biology / Synthetic Biology	Sung Sun Yim	sungsunyim@kaist.ac.kr	<a href="https://yimlabkaist.github.io/">https://yimlabkaist.github.io/</a>
144	Biology	Bio-Nanomedicine Lab	Bioengineering / Cancer Biology / Drug Delivery/ Immunology / Stem Cell	Sangyong Jon	syjon@kaist.ac.kr	<a href="http://www.bionanolab.co.kr/main/">http://www.bionanolab.co.kr/main/</a>
145	Biology	Systems Neuroscience Lab	Brain Science / Neuroscience	Min Whan Jung	mwjung@kaist.ac.kr	<a href="https://sites.google.com/site/systemsneurolaboratory/">https://sites.google.com/site/systemsneurolaboratory/</a>
146	Biology	Gliobiology Lab	Brain Science / Cell Biology / Developmental Biology / Genetics / Human Disease / Neuroscience	Won-Suk Chung	wonsuk.chung@kaist.ac.kr	<a href="https://www.kaistglia.org/">https://www.kaistglia.org/</a>
147	Biology	Epigenomics and computational biology lab (Epic Lab)	Bioinformatics / Human Disease / 3D Epigenomics / Single-cell Omics / Deep-learning	Inkyung Jung	ijung@kaist.ac.kr	<a href="https://sites.google.com/view/junglab-kaist/main">https://sites.google.com/view/junglab-kaist/main</a>
148	Biology	Nanomedicine and diagnostics laboratory	Bioengineering / Drug Delivery / Nano-bio technology / Gene therapy / Biomaterials / Diagnostics	Hyun Jung Chung	hyunjc@kaist.ac.kr	<a href="http://nanomedicine.kaist.ac.kr">http://nanomedicine.kaist.ac.kr</a>
149	Biology	Systems and Synthetic Biology Lab	Bioengineering / Bioinformatics / Molecular Biology / Synthetic Biology	Byung-Kwan Cho	bcho@kaist.ac.kr	<a href="http://cholab.or.kr/">http://cholab.or.kr/</a>
150	Biology	Molecular Bioimaging Laboratory	Genetics / Molecular Biology / Biophysics	Won-Ki Cho	wonkicho@kaist.ac.kr	<a href="https://www.wonkicholab.com/">https://www.wonkicholab.com/</a>
151	Biology	Plant Biology Lab	Developmental Biology / Molecular Biology / Plant Biology	Giltsu Choi	gchoi@kaist.ac.kr	<a href="https://sites.google.com/a/kaist.edu/phytochrome/">https://sites.google.com/a/kaist.edu/phytochrome/</a>
152	Biology	Memory Biology Lab	Brain Science / Neuroscience / Brain Disease	Jin-Hee Han	han.jinhee@kaist.ac.kr	<a href="https://sites.google.com/site/neuralcircuitandbehaviorlab/">https://sites.google.com/site/neuralcircuitandbehaviorlab/</a>
153	Biology	Bioengineering and Optogenetic Medicine Lab	Brain Science / Cancer Biology Cell Biology / Neuroscience / Synthetic Biology	Won Do Heo	wdheo@kaist.ac.kr	<a href="https://sites.google.com/view/heolab/home">https://sites.google.com/view/heolab/home</a>