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Appendix: Kyoto University Short-Term Academic Research (KU-STAR) Program Lab List

2025/8/1

PLEASE DO NOT CONTACT THE LABS DIRECTLY REGARDING THIS KU-STAR PROGRAM.

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No	Field	Name	Affiliation	Research Topic	Keywords	Who can apply		Requirements(degree/knowledge/skill)	Webpages	Meet KU Researchers
						UG	Master			
1	Humanities	Prof. Moriguchi, Yuka 	GS of Human and Environmental Studies	Science, technology and cultural Cold War in Asia	#Cold War #US #Asia	●	●	Basic knowledge of American history	https://www.h.kyoto-u.ac.jp/en_f/faculty/fmoriguchi_yuka_925d/	
2	Humanities	Prof. D'Souza, Rohan-Ignatius 	GS of Asian and African Area Studies (ASAFAS)	1. Digital transformation 2. Climate change 3. Environmental history of South Asia	#Environmental History #Digital Technology #Sustainability and Environmental Politics	●	●	Bachelor's or Master degree in History, Political Science, sociology and environmental studies	https://www.global.asafas.kyoto-u.ac.jp/staff/rohan/	
3	Humanities	Prof. Ikegame, Aya 	GS of Asian and African Area Studies (ASAFAS)	1. Political anthropology 2. History and anthropology 3. South Asian studies	#India #Democracy and Religion #Power and Sovereignty #Discrimination #Tribal Arts and Museums	●	●		https://www.global.asafas.kyoto-u.ac.jp/staff/ikegame/	

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4	Social Sciences	Assoc. Prof. Asato, Wako 	GS of Letters in Transcultural Studies	1. Migration 2. Welfare regime	#Migration #Social integration #Welfare	●		Background of sociology, social work, or other major/experience related to my research topic	https://www.cats.bun.kyoto-u.ac.jp/dts/team/academic-staff/asato-wako/	
5	Social Sciences	Snr. Lec. /Jr. Assoc. Prof. Park, Joonha 	Cognitive Pscology in Education, Graduate School of Education	Well-being, regional comparisons in East Asia, acculturation issues in Japanese society, environmental psychology	Psychology, Social psychology, Cultural psychology, Cross-cultural comparisons, East Asia	●	●	People with a foundational understanding and genuine interest in psychology or the social/behavioral sciences Especially those who are motivated to engage in empirical and interdisciplinary research and possess sufficient knowledge of statistics and data analysis Having experience with programming languages useful for data analysis (e.g., R, Python, Julia, MATLAB, or others) is highly appreciated. Willingness to learn Japanese language is also appreciated!	joonhapark.com	
6	Social Sciences	Program-Specific Assoc. Prof. Tashiro, Ai 	Faculty of Integrated Human Studies/Graduate School of Human and Environmental Studies	Climate Change Impact on Human Health & Wellbeing Climate Anxiety	• Health Geography • Environmental Psychology • Environmental Determinants of Health	●	●	• Applicants from diverse fields are welcome • Prior experience of ArcGIS/QGIS, stata/SPSS/R etc. are preferable for Master's students • Passion for transdisciplinary research is highly valued	https://tashirolab.com/	
7	Social Sciences	Prof. Ialnazov, Dimitersavov 	GS of Advanced Integrated Studies in Human Survivability (GSAIS)	1. Transition from fossil fuels to renewable energy in emerging economies and developing countries 2. The impact of recent geopolitical conflicts on international trade and foreign direct investment 3. Corporate sustainability	#Japan, EU, ASEAN, BRICS #Energy Policy #International Trade and Foreign Direct Investment #Sustainable Development	●	●	Both undergraduate and Master's program students in any field of social science are welcome to apply.	https://www.gsais.kyoto-u.ac.jp/staff/inalnazof/en_index.html	
8	Social Sciences	Prof. Sekiyama, Takashi 	GS of Advanced Integrated Studies in Human Survivability (GSAIS)	1. International relations 2. Indo-Pacific regional studies 3. Global environmental politics	#Japan, US, China, India #Politics & Economics #Climate Security	●	●	Bachelor's/Master's degree in any field	https://kdb.iime.kyoto-u.ac.jp/profile/en/6831daedbcd5105d.html	https://global.k.kyoto-u.ac.jp/catsci/global-environmental-politics-climate-security/
9	Social Sciences	Snr. Lec./ Jr. Assoc. Prof. Baars, Roger C. 	GS of Global Environmental Studies	New Pedagogies in Climate Change Education (place-based, emotional, serious games), Disaster Preparedness (gender, indigenous knowledge, teaching & learning), Pro-Environmental Lifestyles (behavior change, social practice theory, nature connectedness)	Climate Change Education, Disaster Preparedness, Pro-Environmental Lifestyles		●	• Essential: Social science background and basic knowledge in environmental studies. • Desirable: Interest in broader human-environmental issues (climate change, disaster), people-focused approaches, wider perspectives on teaching & learning (beyond formal education)		
10	Social Sciences	Prof. Usami, Makoto 	GS of Global Environmental Studies (GSGES)	1. Climate change mitigation/adaptation 2. Environmental awareness 3. Disaster management	#Environmental Policy #Environmental Politics #Social Psychology		●	Interest in social science study on policy and citizen responses to environmental challenges	https://www.envpolicy.ges.kyoto-u.ac.jp/en	https://global.k.kyoto-u.ac.jp/global-environmental-studies/social-science-research-into-policy-and-citizen-responses-to-environmental-challenges/

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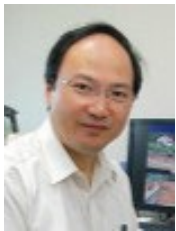
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11	Social Sciences	Prof. Colpan, Asli M 	GS of Management (GSM-KU)	Corporate strategy, corporate governance	#Emerging Economies #Business Groups #Female Directors		●	Basic knowledge of Management or Economics	https://www.gsm.kyoto-u.ac.jp/en/faculty/166/	
12	Social Sciences	Assoc. Prof. Samaddar, Subhajyoti 	Disaster Prevention Research Institute (DPRI)	Disaster risk communication	#Risk Communication #Risk Perception #Early Warning #Implementation Science #Participatory Risk Governance	●	●	Undergraduate / Master's program students in any field of social science, or urban planning or policy science Some research experience or working exposure in disaster risk reduction is preferable.	http://mdr.dpri.kyoto-u.ac.jp/	
13	Social Sciences	Snr. Lec. /Jr. Assoc. Prof. Igor de Almeida 	Institute for the Future of Human Society	1. Cultural differences in psychology 2. Emotion 3. Diversity in psychological research	#Culture #Emotion #Diversity	●	●	Basic knowledge and interest in psychology and social sciences Knowledge of statistics and R/Python programming is highly appreciated.	https://culture-wellbeing.ifo.h.s.kyoto-u.ac.jp/lab/	https://global.k.kyoto-u.ac.jp/psychology/introduction-to-the-cultural-psychology-lab/

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14	Mathematical and Physical Sciences	Prof. Kawakami, Tetsuo 	GS of Science	1. Formation of HT to UHT metamorphic belts, partial melting of the crust and granite petrogenesis at convergent plate boundaries 2. Roles of fluids in crustal processes 3. Linking P-T-D path of metamorphic/igneous rocks with geochronology using zircon and monazite (Petrochronology)	#Metamorphism #Partial Melting #Petrochronology #Continental Crust		●	Master's student in petrology (metamorphic, igneous)/geology/geochemistry Experience in thin section observation using polarizing microscopy	https://pet.kueps.kyoto-u.ac.jp/index.htm	
15	Mathematical and Physical Sciences	Prof. Naruse, Hajime 	GS of Science	1. Turbidity current 2. Tsunamis 3. River Morphodynamics	#Numerical Modeling #Facies Analysis #Machine learning		●	Bachelor's degree in geology or machine learning	http://turbidite.secr.et.jp/?English%2FTop	https://global.k.kyoto-u.ac.jp/cat-sci/uncovering-earths-hidden-past-quantitative-sedimentology-and-morphodynamics/
16	Mathematical and Physical Sciences	Prof. Sakajo, Takashi 	GS of Science	1. Topological and geometric fluid mechanics 2. Mathematics of turbulence 3. Mathematical modeling of flow phenomena 4. Uncertainty quantification	#Vortex Dynamics #Topological Flow Data Analysis #Singular Formation in Solutions of Fluid Equations		●	Bachelor's or Master's degree in mathematics (geometry, functional analysis, probability theory, numerical analysis) Basic knowledge of fluid mechanics Excellent skills in numerical simulation	https://www.math.kyoto-u.ac.jp/~sakajo/	
17	Mathematical and Physical Sciences	Prof. Wang, Gonghui 	Disaster Prevention Research Institute (DPRI)	1. Initiation and movement mechanisms of landslides 2. Landslide risk assessment under abnormal weather condition and/or earthquake 3. Risk assessment of Landslide hazard chains	#Landslide #Geohazard Chains #Landslide Dam	●	●	Basic knowledge of soil mechanics, geology, and geophysics	https://landslide.dpri.kyoto-u.ac.jp/outline/	
18	Mathematical and Physical Sciences	Assoc. Prof. Croydon, David 	Research Institute for Mathematical Sciences (RIMS) / GS of Science	Probability theory	#Random Walks #Random Graphs #Fractals		●	Bachelor's/Master's degree in mathematics, including courses in probability theory	https://www.kurims.kyoto-u.ac.jp/~croydon/	
19	Mathematical and Physical Sciences	Prof. Lee, Sungrimseirin 	Institute for the Advanced Study of Human Biology (ASHBi) / Graduate School of Medicine	Mathematical Medicine, Mathematical modeling, Data science	Mathematical Medicine, Mathematical modeling, Data science	●	●	• No mathematical expertise is required at this stage • Applicants from diverse fields are welcome • A strong interest in applying mathematical approaches to medical or biological problems is essential • Passion for interdisciplinary research is highly valued	https://ashbi.kyoto-u.ac.jp/bimed-math/	

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20	Chemistry	Prof. Kitagawa, Hiroshi 	GS of Science	1) Low-dimensional electron systems 2) Solid-state protonics 3) High-entropy alloys 4) Molecular conductors and conducting MOFs	#Electronic Materials #HEA/HEO #MOFs #Molecular Conductor	●	●	Bachelor's degree / Master's students Basic knowledge of chemistry or materials science	http://kuchem.kyoto-u.ac.jp/oss/	
21	Chemistry	Prof. Kageyama, Hiroshi 	GS of Engineering	Synthesis of mixed-anion compounds for functional properties (superconductivity, catalysis, battery, etc.)	#Materials Chemistry #New Materials Synthesis #Mixed Anion	●	●	Undergraduate students are welcome too.	http://www.ehec.kyoto-u.ac.jp/ch10/	
22	Chemistry	Prof. Uchimoto, Yoshiharu 	GS of Human and Environmental Studies	1. Electrochemical energy storage and conversion devices 2. Lithium ion batteries and post lithium-ion batteries 3. Proton exchange membrane fuel cells and water electrolysis 4. Advanced analysis technology using synchrotron radiation 3 Indian postdoctoral students are in this lab! Dr. Neha Thakur, Dr. Mukesh Kumar, Dr. Dipali Patil	#Electrochemistry #Energy Devices and Systems #Advanced Analysis Technologies	●	●	Bachelor's degree / Master's students Basic knowledge of chemistry or materials science or analytical science	https://www.uchimoto.jinkan.kyoto-u.ac.jp/?lang=en	
23	Chemistry	Prof. Saito, Kei 	GS of Advanced Integrated Studies in Human Survivability (GSAIS)	1. Green chemistry, 2. Sustainable polymeric materials synthesis, 3. Life cycle assessments	#Green Chemistry #Polymer Chemistry #Circular Economy		●		https://www1.saitolab.gsaais.kyoto-u.ac.jp/	https://global.k.kyoto-u.ac.jp/chemistry/green-and-sustainable-materials-for-circular-economy/
24	Chemistry	Prof. Mizuochi, Norikazu 	Institute for Chemical Research (ICR)	1. Quantum sensing and quantum information science by utilizing diamond and related materials 2. Material science including diamond synthesis and its characterization	#Diamond #NV Center #Quantum Sensor #Quantum Science	●	●	Basic knowledge of physical chemistry	http://mizuochilab.kuicr.kyoto-u.ac.jp/indexE.html	https://global.k.kyoto-u.ac.jp/chemistry/diamond-for-quantum-science-and-technology/
25	Chemistry	Prof. Nakamura, Masaharu 	Institute for Chemical Research (ICR)	1. Synthetic molecular transformation 2. Organic reaction chemistry 3. Synthetic methodology toward exploitation of chemical resources 4. Supramolecular metal catalyst	# Biomass Molecular Transformation # Green Chemistry # Forest Chemical Industry	●	●	Interest in sustainable chemical synthesis and basic knowledge of organic chemistry	https://www.sci.kyoto-u.ac.jp/~elements/en/	https://global.k.kyoto-u.ac.jp/chemistry/dream-driven-chemistry-pursue-your-academic-career-to-make-dreams-come-true/
26	Chemistry	Prof. Uesugi, Motonari 	Institute for Chemical Research (ICR) /Institute for Integrated Cell-Material Sciences (iCeMS)	1. Small molecule discovery 2. Chemical immunology 3. Chemoproteomics	#Chemical Biology #Chemoproteomics	●*		Undergraduate students majoring in chemistry or biochemistry who are set to graduate next year.	https://www.sci.kyoto-u.ac.jp/~uesugi/index.php	https://global.k.kyoto-u.ac.jp/chemistry/chemistry/%e9%be%86biostudies-chemical-biology-chemistry-initiated-biology/

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27	Chemistry	Prof. Wakamiya, Atsushi 	Institute for Chemical Research (ICR)	1. Materials Chemistry 2. Physical Organic Chemistry 3. Photovoltaics	#Pi-conjugation Systems #Perovskite Solar Cells #Optoelectronics		●	Bachelor's degree in Chemistry, basic knowledge and experience on chemistry or materials science	https://www.scl.kyoto-u.ac.jp/~wakamiya/english/index.html	https://global.kyoto-u.ac.jp/chemistry/energy-for-the-future-from-materials-science-to-perovskite-solar-cells/
28	Chemistry	Prof. Yamada, Hiroko 	Institute for Chemical Research (ICR) / GS of Science	Organic functional materials	#Aromatic Compounds #Organic Semiconductors #Self Assembly		●	Bachelor's degree in chemistry / Master's students Basic knowledge of organic chemistry Prior experience of organic synthesis	https://www.scl.kyoto-u.ac.jp/~oec/en/index.html	

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29	Engineering Sciences	Prof. Abe, Takeshi 	GS of Engineering	1. Lithium-ion batteries 2. Novel battery systems 3. Carbonaceous materials	#Electrochemistry #Material Chemistry	●	●	Physical chemistry	http://elech.kuic.kyoto-u.ac.jp/	
30										
31	Engineering Sciences	Prof. Hirayama, Tomoko 	GS of Engineering	Improvement of friction and wear properties of machine elements	#Mechanical Engineering #Machine Elements #Tribology #Friction and Wear	●	●		http://www.element.kyoto-u.ac.jp/index-j.html	
32	Engineering Sciences	Snr. Lec. /Jr. Assoc. Prof. Inamasu, Hiroyuki 	GS of Engineering	Resilient steel structures	#Design/Assessment/Enhancement of seismic-resistant steel structures #Structural collapse simulations		●	Bachelor's degree in civil/architectural engineering (Focusing on structural engineering) Basic knowledge of structural mechanics, structural dynamics, structural materials, and basic math/physics (calculus, linear algebra, fundamental physics, etc.)	http://www.steel.archi.kyoto-u.ac.jp/index.html	
33	Engineering Sciences	Prof. Kim, Chul-Woo 	GS of Engineering	1. Data assimilation 2. Stochastic system identification 3. Structural health monitoring of bridges	#Bayes #Bridge #Monitoring #Sensing #Uncertainty Quantification	●	●	Advance linear algebra; statistics; structural mechanics; structural dynamics	http://infra.kuicv.kyoto-u.ac.jp/index.html	
34	Engineering Sciences	Prof. Koike, Katsuaki 	GS of Engineering	1. Characterization and generation mechanism of mineral, geothermal, and groundwater resources 2. Resource exploration and assessment using geoinformatic, geological, geophysical, and geochemical methods	#Resource Geology #Spatial Modeling #Remote Sensing	●	●	Strong interest in natural resources Basic knowledge of geology	https://www.geonv.kumst.kyoto-u.ac.jp/index_en.html	https://global.k.kyoto-u.ac.jp/cat-eng/earth-science-and-engineering-of-natural-resources-for-sustainable-future-world/
35	Engineering Sciences	Snr. Lec. /Jr. Assoc. Prof. Komiyama, Yosuke 	GS of Engineering	Timber construction and design	#Timber #Construction #Design	●		Good design skill and strong interest in timber construction design	https://press.archi.kyoto-u.ac.jp/laboratory/plan/	

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36	Engineering Sciences	Prof. Kurose, Ryoichi 	GS of Engineering	1. Momentum/mass/heat transfer and reaction/combustion in turbulent flows 2. Particles/bubbles/droplets motions in turbulent flows 3. Turbulent structure and scalar (heat and mass) transfer across the gas-liquid interface 4. Analysis of complex turbulent flow fields generated by the motion of object	#Combustion #Turbulence #Multiphase Flows	● *	●	Bachelor's or master's degree in mechanical engineering Basic knowledge of fluid dynamics and thermodynamics Strong intention to advance to Ph.D. course *Undergrad candidates can also apply provided they are strongly motivated to proceed to a doctoral program and to learn Japanese language as well.	http://www.tse.me.kyoto-u.ac.jp/index_e.php	
37	Engineering Sciences	Prof. Onishi, Masamitsu 	GS of Engineering	1. Governance of infrastructure industry 2. Disaster risk management	#Public Private Partnerships #Project Management #Decision-makings in Emergency	●	●	Basic knowledge of statistics, optimization theory	https://psa2.kuciv.kyoto-u.ac.jp/lab/en/	
38	Engineering Sciences	Assoc. Prof. Schmoecker, Jan-dirk 	GS of Engineering	1. Bus operation models (simulation, analytical optimization models) 2. Crowding prediction with Wi-Fi data 3. Road space redesign modelling	#Network Modelling #Analysis of Trajectory Data #Transport Policy	●	●	Basic knowledge in programming, database management and statistics	Jan-Dirk Schmoecker Fujii Laboratory Department of Urban Management, Kyoto University- schmoecker	https://global.k.kyoto-u.ac.jp/cat-eng/creating-intelligent-transportation-systems/
39	Engineering Sciences	Prof. Seki, Shu 	GS of Engineering	Electronic/spintronic materials and nanomaterials	#Conductivity #Nano-optoelectronic Materials #Functional Molecules	●	●	Math (Undergraduate level) Motivation for experimental physical chemistry	http://www.moleng.kyoto-u.ac.jp/~moleng_06/index.php?lang=en	https://global.k.kyoto-u.ac.jp/cat-eng/physical-chemistry-for-materials-science/
40	Engineering Sciences	Prof. Suzuki, Motofumi 	GS of Engineering	Nanostructured thin films and their applications	#Oblique (or glancing) Angle Deposition #Surface Enhanced Raman Scattering #Marangoni Force	●	●	A foundational understanding of electromagnetism and condensed matter physics Some introductory familiarity with operating vacuum equipment	http://www.mpe.me.kyoto-u.ac.jp/en/	
41	Engineering Sciences	Prof. Yokokawa, Ryuji 	GS of Engineering	Developing vascularized microphysiological systems (MPS) to 1) explore organ development mechanisms by replicating vascularized tissue environments 2) recapitulate disease conditions for drug discovery 3) model and analyze angiogenesis and vasculogenesis processes integrating machine learning	#Microphysiological Systems (MPS) #Machine Learning #Nano/micro Fabrications	●	●	Bachelor's degree in biomedical engineering Master's students with basic knowledge and high motivation in interdisciplinary research based on biomedical engineering, mechanical engineering, cell and molecular biology	https://www.mbsys.me.kyoto-u.ac.jp/en/	
42	Engineering Sciences	Prof. Fujihara, Masayuki 	GS of Agriculture	1. Water resources engineering 2. Rural environmental engineering	#Computational Fluid Dynamics #Hydraulics #Fishway	●	●	Possibly, basic knowledge of hydraulics and/ or computer programming	https://www.wre.kais.kyoto-u.ac.jp/index.html	

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43	Engineering Sciences	Prof. Fujisawa, Kazunori 	GS of Agriculture	1. Geotechnical engineering 2. Dam engineering 3. Applied mechanics	#Soil-water Couped Problems #Inverse Analysis	●	●	Bachelor's/Master's program students in engineering-related fields Basic knowledge of soil mechanics, hydraulics and computer programming	https://www.agricility.kais.kyoto-u.ac.jp/english/index.html	
44	Engineering Sciences	Prof. McLellan, Benjamin-craig 	GS of Energy Science	1. Just resource and energy transitions to carbon neutrality 2. Resource supply security and requirements for future energy scenarios 3. Sustainability assessment of energy policy and technology	#Just transitions #Resources #Sustainable Energy Systems	●	●	For most of our research, it is preferred that students have undertaken courses in mathematics, statistics, or programming at university level. Typical degrees: engineering; economics; sociology; political science; (not exclusive)	https://eecon.energy.kyoto-u.ac.jp/en/	https://global.k.kyoto-u.ac.jp/cate-ne/designing-sustainable-and-just-future-energy-systems/
45	Engineering Sciences	Assoc. Prof. Ogata, Seichi 	GS of Energy Science	1. Energy engineering 2. Energy and environmental economics 3. Corporate sustainability	#Renewable Energy System Design #Agrivoltac Systems #Smart Energy Management,	●	●	Basic knowledge of economics and energy engineering	https://researchmap.jp/7000009554?lang=en	
46	Engineering Sciences	Prof. Sagawa, Takashi 	GS of Energy Science	1. Materials designed of nanosized structures made of organic and inorganic composites 2. Electronic structural analyses of materials and characterization of their optical properties 3. Applications for photovoltaics (solar cells, photocatalysts, and so on), light-emitting devices, and/or others	#Photochemistry #Solid State Physics #Polymer Science	●	●	Basic knowledge of materials science, industrial chemistry, and electrical engineering and electronics	http://www.quantumenergy.kyoto-u.ac.jp/index.html	https://global.k.kyoto-u.ac.jp/cate-ne/materials-design-based-on-light-matter-interaction-for-applications-to-energy-science/
47	Engineering Sciences	Prof. Katsumi, Takeshi 	GS of Global Environmental Studies (GSGES)	Geotechnical & geoenvironmental engineering	#Sustainable Construction #Waste Geotechnics #Disaster Recovery	●	●		https://geotech.gsc.kyoto-u.ac.jp/index_e.html	https://global.k.kyoto-u.ac.jp/global-environmental-studies/sustainable-geoenvironmental-engineering/
48	Engineering Sciences	Prof. Higo, Yosuke 	GS of Management (GSM-KU)	1. Computational geomechanics 2. Geomechanics from micro to macro	#Numerical simulation #X-ray micro-CT #Soil-water coupled problems	●	●	Bachelor's/Master's program students in any fields Basic knowledge of soil mechanics and computer programming	http://geomechanics.kueiv.kyoto-u.ac.jp/index_en.html	
49	Engineering Sciences	Prof. Tokita, Shigeki 	Institute for Chemical Research (ICR)	1. Ultrafast high-power mid-infrared laser sources 2. Coherent X-ray generation 3. Femtosecond lasers for industrial applications 4. The search for neutrinoless double beta decay 5. The search for dark matter	#Laser optics #Plasma physics #Experimental particle physics	●	●	Bachelor's degree / Master's students Basic knowledge of physics	https://en.laser.kuier.kyoto-u.ac.jp/	https://global.k.kyoto-u.ac.jp/chemistry/experimental-research-in-physics-based-on-cutting-edge-intense-lasers/

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50	Engineering Sciences	Prof. Nagasaki, Kazunobu 	Institute of Advanced Energy (IAE)	1. Plasma physics 2. Fusion science 3. Plasma heating and diagnostics	#Physics #Plasma #Nuclear Fusion	●	●	Basic knowledge in electromagnetism, and electrical and electric engineering	http://www.iae.kyoto-u.ac.jp/plasma/en/index_E.html	https://global.k.kyoto-u.ac.jp/cate/heliotron-i-looking-up-the-future-with-fusion-energy-a-sun-on-earth/
51	Engineering Sciences	Prof. Ito, Yoshihiro 	Disaster Prevention Research Institute (DPRI)	1. Earthquake seismology 2. Marine seismology 3: Marine geodesy	#Subduction Zone #Megathrust Earthquake #Slow Earthquake #Disaster Mitigation	●	●	Bachelor's or master's degree in geoscience, physics, or related field Programming experience with Python or MATLAB is desirable.	https://www.reep.dpri.kyoto-u.ac.jp/yito/index-e.html	https://global.k.kyoto-u.ac.jp/cate/sci/slow-earthquake-science-from-ocean-bottom-observations/
52	Engineering Sciences	Prof. Uzuoka, Ryosuke 	Disaster Prevention Research Institute (DPRI) /GS of Engineering	Geo-disaster prediction and mitigation	#Landslide #Soil liquefaction #Multiphase computational geomechanics		●	Bachelor's/Master's degree Basic knowledge of geotechnical engineering	https://sites.google.com/site/geodpriku/	
53	Engineering Sciences	Prof. Hino, Masahiro 	Institute for Integrated Radiation and Nuclear Science (KURNS)	Neutron science with neutron optical technology	#Neutron Optics #Neutron Science #Neutron Sources	●	●		https://www.ri.kyoto-u.ac.jp/en/research_div/qbms/no	

Appendix: Kyoto University Short-Term Academic Research (KU-STAR) Program Lab List

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No	Field	Name	Affiliation	Research Topic	Keywords	Who can apply		Requirements(degree/knowledge/skill)	Webpages	Meet KU Researchers
						UG	Master			
54	Informatics	Assoc. Prof. Fukuda, Ellen Hidemi 	GS of Informatics	1. Operations research 2. Continuous optimization	#Nonlinear Optimization, #Conic Optimization, #Multiobjective Optimization		●	Bachelor's or Master's degree in computer science, mathematics or related fields; basic knowledge of continuous optimization and programming experience	http://www.optima.amp.i.kyoto-u.ac.jp/eng/index.html	
55	Informatics	Prof. Ito, Takayuki 	GS of Informatics	1. AI-empowered collective intelligence 2. Consensus informatics, 3. Hyperdemocracy: Next generation democracy system, 4. Computational mechanism design and social choice	#Artificial Intelligence #Multiagent Systems #LLM Agents #Collective Intelligence	●	●	Fundamental knowledge on AI, multiagent systems, and Game Theory Programming skill	https://sites.google.com/view/takayuki-ito-laboratory-en/home	
56	Informatics	Prof. Kano, Manabu 	GS of Informatics	1. Process informatics & control 2. Data-based medical/healthcare service development 3. Development of AI for automatic first-principle model building	#Process Systems Engineering (PSE) #Medical Engineering #Machine Learning	●	●	Undergraduate-level mathematics, especially linear algebra and calculus Programming experience; familiarity with Python or MATLAB is desirable.	http://human.sys.i.kyoto-u.ac.jp/index-e.html	
57	Informatics	Assoc. Prof. Murawaki, Yugo 	GS of Informatics	Computational linguistics & natural language processing	#Large Language Models #Humanlikeness of LLMs #Application of analytical philosophy to LLMs		●	Bachelor's or master's degree in computer science or related fields; programming experience; interest in linguistics, if not expertise, is appreciated.	https://nlp.ist.i.kyoto-u.ac.jp/EN/	
58	Informatics	Prof. Sato, Takashi 	GS of Informatics	Integrated circuit/system design and optimization	#Electronic Design Automation #Physical Design #Manufacturability #Hardware Accelerators		●	Bachelor's or master's degree in computer science, electrical/electric engineering, or related fields	https://lsi.cce.i.kyoto-u.ac.jp/	
59	Informatics	Prof. Shimodaira, Hidetoshi 	GS of Informatics	1. Machine Learning 2. Mathematical Statistics 3. Natural Language Processing	#Neural Networks #Large Language Models #Word Embedding	●	●	Basic knowledge of machine learning or statistics Programming experience in Python or R	https://stat.sys.i.kyoto-u.ac.jp/shimolab/	
60	Informatics	Prof. Yamashita, Nobuo 	GS of Informatics	Mathematical optimization	#Nonlinear Optimization #First Order Methods #Duality	●	●	Undergraduate-level mathematics, especially linear algebra and calculus Basic knowledge of mathematical optimization, especially optimality conditions and duality	http://www.optima.amp.i.kyoto-u.ac.jp/eng/index.html	

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61	Informatics	Assoc. Prof. Kawamura, Akitoshi 	Research Institute for Mathematical Sciences (RIMS) / GS of Science	1. Computation theory 2. Algorithm design 3. Discrete mathematics	#Analysis of Algorithms #Mathematical Engineering #Experimental Algorithms		●	Bachelor's or Master's degree in Mathematics, Computer Science or related fields Basic knowledge of algorithm theory Excellent skills in mathematical reasoning	https://www.kurims.kyoto-u.ac.jp/~kawamura/index_e.html	

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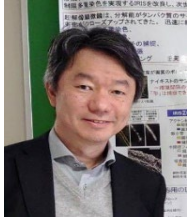
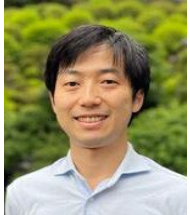
No	Field	Name	Affiliation	Research Topic	Keywords	Who can apply		Requirements(degree/knowledge/skill)	Webpages	Meet KU Researchers
						UG	Master			
62	Biological Sciences	Assoc. Prof. Oyama, Tokitaka 	GS of Science	1. Circadian systems of photosynthetic organisms 2. Bioluminescence reporter systems 3. Plant-microbe interaction 4. Applications of duckweed plants	#Circadian Rhythm #Photoperiodism #Bioluminescence	●	●	Background of plant physiology and molecular biology Completing a laboratory course (class) for molecular biology experiments	http://www.biol.sci.kyoto-u.ac.jp/en/laboratory/292/	
63	Biological Sciences	Visiting Assoc. Prof. Hayashi, Makoto 	IFOM-KU Joint-Research Laboratory / GS of Medicine	1. Chromosome instabilities and cellular responses induced by chromosome fusions 2. Telomere function in mitosis of the cell cycle 3. Innate immune response against self nucleic acids	#Chromosome Fusion #Telomere #cGAS-STING	●	●	Basic knowledge of molecular and cell biology	https://www.mthavashilab.com/	
64	Biological Sciences	Asst. Prof. Isobe, Masanori 	GS of Medicine	1. Psychiatry and clinical neuroscience 2. Neuroimaging 3. Neurodevelopmental disorders and eating disorders	cognitive neuroscience, neuroimaging, MRI, anorexia nervosa, autism spectrum disorder, attention-deficit/hyperactivity disorder	●	●	Applicants from diverse fields are welcome Basic knowledge of statistics and strong interest in clinical psychology and psychiatry are preferable	http://www.tedi.medic.kyoto-u.ac.jp/	
65	Biological Sciences	Assoc. Prof. Carlton, Petermark 	GS of Biostudies	Understanding molecular mechanisms regulating chromosome dynamics in meiosis using C. elegans germ cells as a model system	#Chromosome Dynamics, Meiosis, High/super Resolution Microscopy, Live imaging #Quantitative Image Analysis, Genetics, CRISPR-Cas9 Genome Editing, C. Elegans #Genomic Sequence Analysis, DNA Repair, Homologous Recombination, Cell Cycle	●	●	Basic knowledge in molecular/cell biology Some experience of working in molecular/cell biology labs is good but is not necessary.	https://www.carltonlab.org/	https://global.k.kyoto-u.ac.jp/en/cate-bio/understanding-how-chromosomes-are-accurately-passed-on-to-the-next-generation/
66	Biological Sciences	Prof. Harada, Hiroshi 	GS of Biostudies	1. Tumor hypoxia 2. Cancer radioresistance 3. Cancer malignancy	#Hypoxia Response #Gene Network	●	●	Bachelor's degree / Master's students Basic knowledge of biology or life science	https://www.lif.kyoto-u.ac.jp/en/research/lab/6923/	
67	Biological Sciences	Prof. Kohchi, Takayuki 	GS of Biostudies	1. Plant sex determination and differentiation 2. Molecular mechanisms of environmental responses in plants 3. Molecular basis of land plant evolution	#Sex Chromosome Evolution #Light Sensing and Signaling #Genetic and Epigenetic Regulation	●	●	Basic knowledge of molecular genetics and biochemistry	https://www.lif.kyoto-u.ac.jp/en/research/lab/152/	
68	Biological Sciences	Prof. Oda, Yukako 	GS of Biostudies	1. Induction and regulation of epithelial cell-cell adhesion 2. Control of invasive and metastatic cancers 3. Understanding of aging from intestinal barrier function	#Cancer #Cell-cell Adhesion #Physiologically Active Peptide	●	●	Bachelor's degree / Master's students Basic knowledge of cell biology	https://www.lif.kyoto-u.ac.jp/en/research/lab/194/	

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						UG	Master			
69	Biological Sciences	Prof. Toju, Hirokazu 	GS of Biostudies / Center for Living Systems Information Science (CeLiSIS)	1. Ecosystem structure and dynamics 2. Plant-associated microbiomes 3. Fish-associated microbiomes 4. Metagenomics	#Microbiomes #Ecosystem Sustainability #Theoretical Ecology #Biodiversity	●	●	Basic knowledge of biology and computer programming	https://sites.google.com/view/tojulab	
70	Biological Sciences	Prof. Watanabe, Naoki 	GS of Biostudies	1. Single-molecule imaging 2. Mechanotransduction 3. Drug paradox 4. Multiple disease marker detector	#Multiplexed Super-Resolution Microscopy #Tissue & Neural Remodeling #Cancer Drugs	●	●	Basic knowledge in biology and biotechnology	http://www.pharm2.med.kyoto-u.ac.jp/2_index.html	https://global.k.kyoto-u.ac.jp/cat-bio/single-molecule-analysis-of-molecular-biophysics-in-living-organisms/
71	Biological Sciences	Assoc. Prof. Yamano, Takashi 	GS of Biostudies	Molecular biology of phase-separated organelles in aquatic photosynthesis	#Live-cell Imaging #Organelle #Phase Separation #Machine Learning	●	●	Basic knowledge of molecular biology and biochemistry Data science experience is a plus	https://www.lif.kyoto-u.ac.jp/e/research/lab/158/	
72	Biological Sciences	Prof. Yasuhara, Takaaki 	GS of Biostudies	1. The molecular mechanisms of cellular stress response 2. Genomic instability induced by abnormal transcription-associated stresses 3. The stress responses mediated by phase separation of RNA-binding proteins 4. Disease-related genome abnormalities caused by aging 5. The fundamental mechanism of diseases, such as cancer and chromosomal anomaly	#Cellular Stress Response #Genomic Instability #Disease Mechanism	●	●	Basic knowledge of biology or bioinformatics	https://www.rbc.kyoto-u.ac.jp/genome_stress/en/	
73	Biological Sciences	Prof. Shintaku, Hirofumi 	Institute for Life and Medical Sciences (LiMe)	1. Nanoelectrokinetics 2. Cell mechanics 3. Cancer biology	#Single Cell #RNA-seq #Microfluidics	●	●	Basic knowledge in biology, biophysics and biotechnology	https://www.infront.kyoto-u.ac.jp/en/laboratory/lab44/	
74	Biological Sciences	Assoc. Prof. Nagata, Takashi 	Institute of Advanced Energy (IAE)	1. Obtain value-added compounds and sustainable energy from woody biomass to achieve decarbonization 2. Elucidate functions and dysfunctions of disease-related proteins and nucleic acids 3. Investigate structure–function relationships of biomacromolecules	#Woody Biomass #Decarbonization #Diseases #Structural Biology #Biophysics		●	Bachelor's or master's degree	http://www.iae.kyoto-u.ac.jp/bio/	
75	Biological Sciences	Assoc. Prof. Ikeya, Makoto 	Center for iPS Cell Research and Application (CiRA)	1. iPSC-based disease modeling 2. iPSC-based cell therapy 3. Developmental biology using iPSCs	# Developmental biology # MSC # Neural crest cells	●	●	Highly enthusiastic for iPSC research and application. Motivation with a Ph.D. degree at CiRA.	Research Overview Makoto Ikeya (Associate Professor) CiRA	

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						UG	Master			
76	Biological Sciences	Junior Associate Professor Iwasaki, Mio 	Center for iPS Cell Research and Application (CiRA)	How is cell fate control selective for a specific type of cells?	Protein analysis, proteomics, iPS cells, cell fate control	●	●	● People with backgrounds in Biology, Molecular/Medical Genetics, Biochemistry, Chemistry, Engineering, Mathematics, or Computer Sciences. ● Basic knowledge in areas such as cell and molecular biology, mammalian cell culture, recombinant DNA, and computer languages/programming (Python, R) are all valued. ● Passion for research and motivation to enter the KU Graduate Program (M.Sc. or Ph.D.) at CiRA. ●Curious about protein analysis including proteome technology development.	https://iwasaki-lab.cira.kyoto-u.ac.jp/en/	
77	Biological Sciences	Assoc. Prof. Knut Woltjen 	Center for iPS Cell Research and Application (CiRA)	1. Human genome analysis and genome editing 2. iPSC-based disease modeling and cell therapy 3. Protective or beneficial genetic variants impacting human health and aging	#Genome engineering, gene editing, CRISPR-Cas9, transposon, recombinase, DNA repair, homologous recombination, recombinant DNA #Human genetics, genome sequencing, variants, and bioinformatic analysis #Cell therapy, gene therapy, ex vivo cell engineering, induced pluripotent stem cells	●	●	Bachelor's or Master's degree in Biology, Molecular/Medical Genetics, Biochemistry, Chemistry, Engineering, Mathematics, or Computer Sciences. Basic knowledge in areas such as cell and molecular biology, mammalian cell culture, recombinant DNA, and computer languages/programming (Python, R) are all valued. Passion for research and motivation to enter the KU Graduate Program (M.Sc. or Ph.D.) at CiRA.	https://woltjen.cira.kyoto-u.ac.jp https://youtu.be/tZAkShw7eAc	
78	Biological Sciences	Associate Professor Shimobayashi, Shunsuke 	Center for iPS Cell Research and Application (CiRA)	Elucidation of the Principles and Functions of Non-Membranous Organelles via Phase Separation and Their Application to Cellular Reprogramming	Phase separation, Biomolecular condensates, iPS cells	●	●	People with backgrounds in biology, biochemistry, chemistry, physics, engineering, mathematics, or computer science Especially welcome if you are: ●Fascinated by the physical principles behind cellular organization ●Eager to understand how molecules self-assemble and form dynamic structures inside cells ●Curious about phase separation, biomolecular condensates, and non-membranous organelles Interested in combining: ●Experimental biology with ●Theoretical or computational approaches (e.g., MATLAB, modeling, image analysis) Motivated to pursue an M.Sc. or Ph.D. through the Kyoto University Graduate Program at CiRA	http://shimolab.cira.kyoto-u.ac.jp/	
79	Biological Sciences	Prof. Motokawa, Masaharu 	The Kyoto University Museum	1. Species diversity of terrestrial vertebrates in Asia 2. Formation history of Japanese islands' animal fauna 3. Variation and variability in morphology of mammals	#Taxonomy and Phylogeny #Zoogeography #Functional Morphology	●	●	Bachelor's or master's degree in zoology, animal science, biodiversity or related fields Basic knowledge of biodiversity, taxonomy, phylogeny, biogeography, or evolutionary science Interest in museum specimens	https://zoo.zool.kyoto-u.ac.jp/index_en.html	https://global.k.kyoto-u.ac.jp/catalog/species-diversity-of-asian-terrestrial-vertebrates/
80	Biological Sciences	Asst. Prof. Katsura, Yukako 	Center for the Evolutionary Origins of Human Behavior (EHUB)	1.Genome and Sex chromosome evolution 2.Transcriptome analyses 3.Molecular evolution in primates and other vertebrates.	Evolutionary Genetics Genome Science Molecular Evolution	●	●	Bachelor's degree in Biology, Bioinformatics or other similar fields. Ability to approach research topics seriously with highly interest and motivation. Basic knowledge of genetics. Prior experience in experiments and/or data analysis is preferable.	https://www.biol.sci.kyoto-u.ac.jp/en/laboratory/864/	
81	Biological Sciences	Snr. Lec. /Jr. Assoc. Prof. Namasivayam, Ganesh-Pandian 	Institute for Integrated Cell-Material Sciences (iCeMS) /GS of Engineering	1. Epigenetics 2. Nucleic acid therapeutics 3. Stem cell control 4. Personalized medicine	#Skin Cell Aging #Mitochondria #Chemical Biology	●	●	Bachelor's degree / Master's students Basic knowledge of biology or chemistry	https://www.namasivayam.icems.kyoto-u.ac.jp/	

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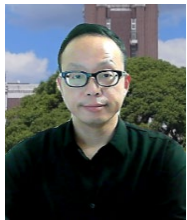
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						UG	Master			
82	Biological Sciences	Prof. Suzuki, Jun 	Institute for Integrated Cell-Material Sciences (iCeMS) /GS of Biostudies	1. Lipid scrambling 2. Cellular and tissue renovation 3. Elimination of unwanted cells	#Unbiased Screening #Establishemnt of Assay System #Diseases Treatment	●	●	Bachelor's degree / Master's students Basic knowledge of biology or chemistry	https://www.suzuki.icems.kyoto-u.ac.jp/cv/	https://global.k.kyoto-u.ac.jp/cat-bio/medical-and-biochemical-cell-dynamics/

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83	Agricultural and Environmental Sciences	Prof. Nasuda, Shuhei 	GS of Agriculture	1. Plant breeding 2. Plant reproduction science 3. Plant genetics and genomics	#Gametogenesis #Genetic Resources #Wheat		●	A strong background in genetics is required.	https://www.ikushu.kais.kyoto-u.ac.jp/index.html	
84	Agricultural and Environmental Sciences	Assoc. Prof. Teramoto, Yoshikuni 	GS of Agriculture	1. Bio-based sustainable materials 2. Functional materials design 3. Advanced wood utilization	# Cellulose and Other Structural Polysaccharides # Composite Materials # Materials Informatics	●	●	Bachelor's/Master's program students in engineering-related fields Basic knowledge of polymer science Basic knowledge of physical chemistry Basic knowledge of organic chemistry	https://www.chembiomater.kais.kyoto-u.ac.jp/?lang=en	
85	Agricultural and Environmental Sciences	Prof. Saizen, Izuru 	GS of Global Environmental Studies (GSGES)	1. Regional planning 2. GIS application 3. Field science	#Regional Resources #GIS and Remote Sensing #Field Survey	●	●	Basic knowledge of urban, rural, or regional planning	http://lmp.ges.kyoto-u.ac.jp/	

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						UG	Master			
86	Medical, Dental and Pharmaceutical Sciences	Prof. Inoue, Kosuke 	Graduate School of Medicine	- Identifying Heterogeneous Treatment Effects (BMJ 2024 , Circulation 2023 , IJE 2023) - Identifying Mechanisms (Epidemiology 2022 , JAMA Netw Open 2020) - Cardiovascular and Endocrine Epidemiology (JAMA 2025 , JAMA IM 2025 , Annals IM 2025 [in press])	- Epidemiology - Endocrinology - Cardiovascular Disease - Causal Inference - Machine Learning	●	●	• Diverse fields are welcome • Prior experience of R or stata are preferable		
87	Medical, Dental and Pharmaceutical Sciences	Assoc. Prof. Kim, Minsoo 	Graduate School of Medicine	1. Bacterial infection and host immune response 2. Targeted protein degradation for drug discovery 3. Post-translational modifications of proteins 4. Cell adhesion and cancer progression	#Ubiquitin Proteasome System #Anti-Cancer Therapy and Antibiotics Development #Immune Response		●	Basic knowledge of molecular biology, biochemistry, microbiology	https://ubiquitinlin.k.jp/research/	
88	Medical, Dental and Pharmaceutical Sciences	Assoc. Prof. Mizumoto, Kenji 	GS of Advanced Integrated Studies in Human Survivability (GSAIS)	Health risk estimation	#Infectious Disease #Vulnerable Population	●*	●	Bachelor's/Master's degree in any field and a strong desire to solve social problems. *Undergrad candidates must be in their last year at the time of the internship.	https://www.gsaais.kyoto-u.ac.jp/en-top/wp-content/uploads/2023/07/MIZUMOTO_Kenji_sensei_202307E.pdf	
89	Medical, Dental and Pharmaceutical Sciences	Assoc. Prof. Hotta, Akitsu 	Center for iPS Cell Research and Application (CiRA)	1. How can we develop a novel therapy for genetically intractable disorders, such as muscular dystrophy? 2. What genome editing tools can restore genetic mutations? 3. How do we deliver genome editing tools to the target tissue?	#Genome editing therapy #iPS cell therapy #Muscular dystrophy	●	●	Motivated for a Ph.D. degree at CiRA in the interdisciplinary area of stem cells and genetic engineering. Strong knowledge of genome editing, gene delivery, and/or iPS cell technologies.	https://hotta-lab.cira.kyoto-u.ac.jp/en/index.html	

You can find video clips of laboratories on Meet KU Researchers.
Please visit the site!



<https://global.k.kyoto-u.ac.jp/>