

JSPS Postdoctoral Fellowship for Overseas Researcher

FY 2021 Engineering sciences

Name(Nationality)	Research Subject	Host Institute Host Researcher	Period	Region Prefecture
HASSAM, C. L. AUSTRALIA	Development of synthetic bone-based nanofilter for virus collection and concentration	National Institute for Materials Science UCHIKOSHI, Tetsuo Group Leader Research Center for Functional Materials	Apr 1, 2021~ Mar 31, 2023	Kanto Ibaraki
SHARAFISAFI, M. AUSTRALIA	Assessment of thermal cracking of deep underground rocks by using combined DFN and CDFEM methods.	Kumamoto University SATO, Akira Associate Professor Faculty of Advanced Science and Technology	Apr 5, 2021~ Apr 4, 2023	Kyushu Kumamoto
WANG, S. AUSTRALIA	Identifying social vulnerability to enhance healthcare access in post-pandemic	The University of Tokyo SADAHIRO, Yukio Professor Interfaculty Initiative in Information Studies	Jul 1, 2021~ Jun 30, 2023	Kanto Tokyo
HOWLADER, H. BANGLADESH	Integrating Large-Scale Renewable Energy Utilizing IoT and AI for Virtual Battery to Accelerate SDGs	University of the Ryukyus SENJYU, Tomonobu Professor Faculty of Engineering	Oct 1, 2021~ Sep 30, 2023	Okinawa Okinawa
PAL, A. BANGLADESH	Hexagonal-boron nitride and ionic liquid doped hybrid adsorbent for heat transformation applications	Kyushu University SAHA, Bidyut Professor International Institute for Carbon-Neutral Energy Research	Sep 15, 2021~ Sep 14, 2023	Kyushu Fukuoka
RAHMAN, M. BANGLADESH	Development of Ionic Liquid based Liposome system and application in siRNA delivery for COVID-19	Kyushu University GOTO, Masahiro Professor Faculty of Engineering	Apr 1, 2021~ Mar 31, 2023	Kyushu Fukuoka
CARDOSO DOS SANTOS, J. BRAZIL	Semi-analytical models for applications in space mission trajectories	Japan Aerospace Exploration Agency KAWAKATSU, Yasuhiro Professor Institute of Space and Astronautical Science	Apr 1, 2021~ Mar 31, 2023	Kanto Kanagawa
CHAGNON-LESSARD, N. CANADA	Smart control system for improving vaccine storage in ULT freezers with IoT and machine learning	Kyushu University MIYAZAKI, Takahiko Professor Faculty of Engineering Sciences	Aug 16, 2021~ Feb 15, 2023	Kyushu Fukuoka

BAO, H. CHINA	In Situ THz-Surface-Enhanced-Raman Tracing of Molecule-Semiconductor Interactions	Nagoya Institute of Technology IKEDA, Katsuyoshi Professor Graduate School of Engineering	Nov 1, 2021~ Oct 31, 2023	Chubu Aichi
CHEN, X. CHINA	Development of an inerter-based device for the seismic protection of cable stayed bridges	Tohoku University IKAGO, Kohju Professor International Research Institute of Disaster Science	Jul 15, 2021~ Jul 14, 2023	Tohoku Miyagi
CHEN, X. CHINA	Experimental Study on Spin Valve Effects in Topological Antiferromagnets	The University of Tokyo NAKATSUJI, Satoru Professor Graduate School of Science	Apr 1, 2021~ Mar 31, 2023	Kanto Tokyo
CHENG, S. CHINA	Chassis Dynamics Domain Control for Autonomous Vehicles Toward Self-driving Safety	The University of Tokyo NAKANO, Kimihiko Professor Institute of Industrial Science	Oct 1, 2021~ Mar 31, 2023	Kanto Tokyo
FENG, Y. CHINA	Transport Properties and Device Applications of One-Dimensional Heterostructure Nanotubes	The University of Tokyo MARUYAMA, Shigeo Professor Graduate School of Engineering	Oct 1, 2021~ Sep 30, 2023	Kanto Tokyo
GAO, Y. CHINA	Research on Hybrid Excitation Flux Switching Motors for Automotive Traction Drives	Nagoya Institute of Technology KOSAKA, Takashi Professor Graduate School of Engineering	Jun 15, 2021~ Jun 14, 2023	Chubu Aichi
HOU, W. CHINA	Dissolution and electrolysis mechanisms of spent refractory materials in cryolite-based electrolytes	Kyoto University NOHIRA, Toshiyuki Professor Institute of Advanced Energy	Sep 1, 2021~ Aug 31, 2023	Kinki Kyoto
JIA, Y. CHINA	Development of coupled T-H-M-C numerical simulator for supercritical geothermal system development	Ehime University YASUHARA, Hideaki Professor Graduate School of Science and Engineering	Oct 1, 2021~ Sep 30, 2023	Shikoku Ehime
JIANG, R. CHINA	Development of Synthetic Evaluation System for City Landscape Planning by GIS & AI Technology	Hiroshima University NISHINA, Daisaku Professor Graduate School of Advanced Science and Engineering	Sep 30, 2021~ Sep 29, 2023	Chugoku Hiroshima

LI, D. CHINA	Development of Highly Efficient Systems for Wireless Power Transfer	Tohoku University CHEN, Qiang Professor Graduate School of Engineering	Oct 1, 2031~ Sep 30, 2033	Tohoku Miyagi
LI, H. CHINA	Existing pile effects on new piles for sustainable foundation reuse in urban area	Tokyo Institute of Technology TAMURA, Shuji Professor School of Environment and Society	Nov 1, 2021~ Oct 31, 2023	Kanto Tokyo
LI, W. CHINA	Multi-application of 2D heterogeneous MXene materials for metallic sodium anode	National Institute for Materials Science SASAKI, Takayoshi Fellow International Center for Materials Nanoarchitectonics	Nov 1, 2021~ Oct 31, 2023	Kanto Ibaraki
LIU, D. CHINA	Synchrotron Operando Spectroscopy for Electrochemical reduction of Single-Atom Alloy Catalysts	The University of Tokyo HARADA, Yoshihisa Professor The Institute for Solid State Physics	Sep 28, 2021~ Sep 27, 2023	Kanto Chiba
LIU, J. CHINA	Development of filter-concentrator-sensor multifunctional hybrid chemical sensing system	The University of Tokyo YANAGIDA, Takeshi Professor Graduate School of Engineering	Oct 1, 2021~ Sep 30, 2023	Kanto Tokyo
LIU, J. CHINA	Environmental assessments of aquifer storage and recovery for decentralized wastewater management	The University of Tokyo TOKUNAGA, Tomochika Professor Graduate School of Frontier Sciences	Sep 1, 2021~ Aug 31, 2023	Kanto Chiba
LIU, J. CHINA	Development of Advanced Anaerobic Digestion Using Multifunctionality of Sludge-Derived Biochar	Tokyo Institute of Technology FUJII, Manabu Associate Professor School of Environment and Society	Nov 30, 2021~ Nov 29, 2023	Kanto Tokyo
LUO, J. CHINA	Development of advanced process for energy-creating low carbon innovation of wastewater treatment	Tohoku University LI, Yu-you Professor Graduate School of Engineering	Nov 1, 2021~ Oct 31, 2023	Tohoku Miyagi
PENG, J. CHINA	Probing ultrafast carrier dynamics in 2D semiconductors at atomic scale	University of Tsukuba YOSHIDA, Shoji Associated Professor Faculty of Pure and Applied Sciences	Oct 1, 2021~ Sep 30, 2023	Kanto Ibaraki

SUN, K. CHINA	On-surface synthesis of structural nanographene by single molecular chemistry	National Institute for Materials Science KAWAI, Shigeki Group Leader Research Center for Advanced Measurement and Characterisation	Apr 1, 2021~ Mar 31, 2023	Kanto Ibaraki
TANG, J. CHINA	Research on nano heterogeneous wicking evaporation surface for ultra-high heat flux applications	The University of Tokyo SHIKAZONO, Naoki Professor Institute of Industrial Science	Sep 1, 2021~ Aug 31, 2023	Kanto Tokyo
TIAN, H. CHINA	Study of real-time dual-comb spectroscopy in versatile spectral region based on on-chip devices	The University of Electro-Communications MINOSHIMA, Kaoru Professor Graduate School of Informatics and Engineering	Oct 1, 2021~ Sep 30, 2023	Kanto Tokyo
WANG, H. CHINA	Development of functional materials for energy storage and conversion	Kyoto University FUJITA, Koji Professor Graduate School of Engineering	Nov 1, 2021~ Oct 31, 2023	Kinki Kyoto
WANG, Q. CHINA	Combustion and flame spread physics over multi-layer flammable material in microgravity	Hokkaido University FUJITA, Osamu Professor Division of Mechanical and Aerospace Engineering, Faculty of Engineering	Nov 30, 2021~ Nov 29, 2023	Hokkaido Hokkaido
WU, D. CHINA	Key technology for wires and powders assisted plasma arc additive manufacturing of gamma-TiAl alloys	Osaka University MA, Ninshu Professor Joining and Welding Research Institute	May 17, 2021~ May 16, 2023	Kinki Osaka
XIAO, Y. CHINA	Clarification of superior strain hardening in CoCrNi medium-entropy alloy -from atom to bulk	Kyoto University TSUJI, Nobuhiro Professor Graduate School of Engineering	Aug 2, 2021~ Aug 1, 2023	Kinki Kyoto
XIE, S. CHINA	Bismuth titanate-based high temperature piezoceramics: Domain structure and polarization dynamics	Kyushu University CHEN, Qiang Professor Faculty of Engineering	Aug 1, 2021~ Jul 31, 2023	Kyushu Fukuoka
ZHANG, D. CHINA	Strengthening mechanism and plastic deformation behavior of high-strength wrought magnesium alloys with low rare earth addition	Kyoto University INUI, Haruyuki Professor Graduate School of Engineering	Oct 1, 2021~ Sep 30, 2023	Kinki Kyoto

ZHANG, N. CHINA	Mechanism elucidation of atomic dispersion of bulk/nano metals toward design of atomic-site catalyst	Hokkaido University SHIMIZU, Kenichi Professor institute for Catalysis	Nov 1, 2021~ Oct 31, 2023	Hokkaido Hokkaido
ZHANG, X. CHINA	Identification of Connection Defects in Fabricated Structures	Tohoku Institute of Technology XUE, Songtao Professor Faculty of Architecture	Nov 30, 2021~ Nov 29, 2023	Tohoku Miyagi
ZHANG, Z. CHINA	Diamond MEMS magnetic sensor for high temperature	National Institute for Materials Science LIAO, Meiyong Principal Researcher Research Center for Functional Materials	Nov 22, 2021~ Nov 21, 2023	Kanto Ibaraki
ZHENG, X. CHINA	A soft biomimetic robotic micro-manipulation system	The University of Tokyo ARAI, Fumihito Professor Graduate School of Engineering	Nov 1, 2021~ Oct 31, 2023	Kanto Tokyo
ZHENG, Y. CHINA	Creating a library of one-dimensional van der Waals heterostructures	The University of Tokyo MARUYAMA, Shigeo Professor Graduate school of Engineering	Apr 1, 2021~ Mar 31, 2023	Kanto Tokyo
ALI, M. A. EGYPT	High Efficiency WPT System Using Hybrid Metasurface and Reactive Impedance Surface	Kyushu University POKHAREL, Ramesh Professor Faculty of Information Science and Electrical Engineering	May 13, 2031~ May 12, 2033	Kyushu Fukuoka
ELBOHY, H. I. EGYPT	Outstanding thermoelectric properties of novel well-aligned lead-free perovskite nanostructures	Okayama University HAYASHI, Yasuhiko Professor Graduate Schoole of Natunal Science and Technology	Nov 1, 2021~ Oct 31, 2023	Chugoku Okayama
MUHAMMAD, M. S. EGYPT	Monitoring and Prediction of Land Use and Land Cover Change Using Remote Sensing and Deep Learning	Kyushu University TSURUSAKI, Naoki Associate Professor Faculty of Human-Environment Studies	Jun 15, 2021~ Jun 14, 2023	Kyushu Fukuoka
HERNANDEZ PINILLA, D. SPAIN	Infrared Wavelength Selective Converters for Thermo-photoelectric Transduction	National Institute for Materials Science NAGAO, Tadaaki Group Leader, MANA PI International Center for Materials Nanoarchitectonics	Oct 1, 2021~ Sep 30, 2023	Kanto Ibaraki

RUIZ ZUNIGA, E. SPAIN	Envisioned world problems with functional approaches for system design, verification, and improvement.	Kyoto University SAWARAGI, Tetsuo Professor Graduate School of Engineering	Sep 24, 2021~ Sep 23, 2022	Kinki Kyoto
DUMONT, M. FRANCE	Multi-scale study water resource for sustainable management	Nagasaki University NAKAGAWA, Kei Professor Graduate School of Fisheries and Environmental Sciences	Nov 1, 2021~ Oct 31, 2023	Kyushu Nagasaki
PYBUS, H. J. UNITED KINGDOM	A hybrid mathematical model of axon elongation and cerebellar folding patterns	Kyoto University ADACHI, Taiji Professor Institute for Frontier Life and Medical Sciences	Nov 30, 2021~ Nov 29, 2023	Kinki Kyoto
DARMA, P. N. INDONESIA	High Speed & Accurate Gastro Imaging by Fusion Technology of Wearable EIT & Machine Learning	Chiba University TAKEI, Masahiro Professor Graduate School of Engineering	Oct 1, 2021~ Sep 30, 2023	Kanto Chiba
FAJAR, A. T. INDONESIA	Metal extraction using biocompatible ionic liquid system assisted by machine learning	Kyushu University GOTO, Masahiro Professor Faculty of Engineering	Oct 1, 2021~ Sep 30, 2023	Kyushu Fukuoka
SUPIT, S. W. INDONESIA	Development of hybrid reinforcement system using nano- to macro-fibers in ultra-high strength mortar	Tohoku University NISHIWAKI, Tomoya Associate Professor Graduate School of Engineering	Nov 30, 2021~ May 29, 2023	Tohoku Miyagi
ANAND, V. INDIA	Super-resolution 5D fluorescence microscopy using chaotic vector waves	Kobe University MATOBA, Osamu Professor Graduate School of System Informatics	Jul 12, 2021~ Jul 11, 2023	Kinki Hyogo
JAIWAL, J. INDIA	Design and development of a selfpowered intelligent contact lens with 2D-MoS2 for ocular diagnostics	Tokai University TSUCHIYA, Kazuyoshi Professor School of Engineering	Sep 1, 2021~ Aug 31, 2023	Kanto Kanagawa
JAYAKUMAR, P. INDIA	Damage diagnosis of network of similar bridges using a novel adaptive drive by vehicle	The University of Tokyo SU, Di Project Associate Professor Graduate School of Engineering	Nov 24, 2021~ Nov 23, 2023	Kanto Tokyo

KHATUA, D. K. INDIA	Conducting ferroelectrics for high-performance mechanical energy harvesting	National Institute for Materials Science REN, Xiaobing Managing Researcher	Jul 1, 2021~ Jun 30, 2023	Kanto Ibaraki
KUMAR, P. INDIA	Mode analysis of versatile structure light beams and its applications towards nano/micro-fabrication	Chiba University OMATSU, Takashige Professor Graduate School of Engineering	Nov 1, 2021~ Oct 31, 2023	Kanto Chiba
MODAK, R. INDIA	Creation of spin-caloritronic Heusler alloys and their hybrid structures	National Institute for Materials Science UCHIDA, Kenichi Group Leader Research Center for Magnetic and Spintronic Materials	Sep 1, 2021~ Aug 31, 2023	Kanto Ibaraki
PAL, A. INDIA	Biomimetic fabrication of cytokine-releasing scaffolds with organic/inorganic dual carrier system	National Institute of Advanced Industrial Science and Technology OYANE, Ayako Leader, Group Nanomaterials Research Institute	Nov 15, 2021~ Nov 14, 2023	Kanto Ibaraki
PANIGRAHI, D. INDIA	Optically driven organic multi-valued logic circuits	National Institute for Materials Science WAKAYAMA, Yutaka Dupty director International Center for Materials Nanoarchitectonics	Apr 1, 2021~ Mar 31, 2023	Kanto Ibaraki
SAU, K. INDIA	Guiding principles for fast ionic solid-conductors	Tohoku University ORIMO, Shin-ichi Professor Advanced Institute for Materials Research	Nov 1, 2021~ Oct 31, 2023	Tohoku Miyagi
SHENOY, S. INDIA	Chemical design and DFT approach of heterojunction photocatalysts for CO2 reduction	Kyushu University SASAKI, Keiko Professor Faculty of Engineering	Nov 1, 2021~ Oct 31, 2023	Kyushu Fukuoka
SUBRAMANIAN, N. INDIA	Upcycling of Spent Lithium-Ion Batteries Electrodes Towards All-Solid-State Lithium-ion Batteries	Waseda University NODA, Suguru Professor Faculty of Science and Engineering	Nov 1, 2021~ Oct 31, 2023	Kanto Tokyo
SUD, A. INDIA	Magnetization dynamics in synthetic antiferromagnets for memory applications	Tohoku University MIZUKAMI, Shigemi Professor Advanced Institute for Materials Research	Nov 29, 2021~ Nov 28, 2023	Tohoku Miyagi

VERMA, A. INDIA	Theoretical development of biocompatible and shape-memorable magnesium alloys	Osaka University OGATA, Shigenobu Professor Graduate School of Engineering Science	Sep 1, 2021~ Aug 31, 2023	Kinki Osaka
VERMA, P. INDIA	Single-atom alloy plasmonic catalysts for hydrogen production from hydrogen storage molecules	Osaka University YAMASHITA, Hiromi Professor Graduate School of Engineering	Sep 1, 2021~ Aug 31, 2023	Kinki Osaka
ALESSI, B. ITALY	Hybrid Perovskite/Quantum dot cells for third generation photovoltaics	National Institute of Advanced Industrial Science and Technology SVRCEK, Vladimir Senior Researcher Global Zero Emission Research Center	Nov 30, 2021~ Nov 29, 2023	Kanto Ibaraki
KOS, D. ITALY	Stretchable conductive interconnects for networking of ultrathin skin-compatible electronic devices	RIKEN FUKUDA, Kenjiro Senior Research Scientist Cluster for Pioneering Research	Nov 1, 2021~ Feb 28, 2023	Kanto Saitama
LOMBARDI, G. ITALY	Realization of High-Efficiency and Environment Friendly Cooling Device Using Elastocaloric Effect	Tohoku University KOMIYA, Atsuki Professor Institute of Fluid Science	Sep 1, 2031~ Aug 31, 2033	Tohoku Miyagi
PADOVAN, D. ITALY	Carboxylation with carbon dioxide for the production of furan dicarboxylic acid	Hokkaido University NAKAJIMA, Kiyotaka Associate Professor Institute for Catalysis	Sep 1, 2021~ Aug 31, 2023	Hokkaido Hokkaido
SINGH HANDA, S. ITALY	Evaluation of hot cracking susceptibility of Ni-based superalloys processed by powder bed additive manufacturing	Osaka University KADOL, Kota Associate Professor Joining and Welding Research Institute	Nov 1, 2021~ Oct 31, 2023	Kinki Osaka
TRY, S. CAMBODIA	Integrated Forecasting System of Flood Inundation and Agricultural Damage in the Lower Mekong Basin	Kyoto University SAYAMA, Takahiro Associate Professor Disaster Prevention Research Institute	Apr 1, 2021~ Mar 31, 2023	Kinki Kyoto
KIM, E. KOREA (REP. OF KOREA)	Development of immune checkpoint inhibitors by multivalent effect	RIKEN ITO, Yoshihiro Chief Scientist and Director Cluster for Pioneering Research	Nov 30, 2021~ Nov 29, 2023	Kanto Saitama

KIM, G. KOREA (REP. OF KOREA)	Development of thermal transistors using transition metal oxides as the active materials	Hokkaido University OHTA, Hiromichi Professor Research Institute for Electronic Science	Oct 1, 2021~ Sep 30, 2023	Hokkaido Hokkaido
KIM, H. KOREA (REP. OF KOREA)	Advanced manipulation of photons using SiC photonic nanocavities	Kyoto University ASANO, Takashi Associate Professor Graduate School of Engineering	Apr 1, 2021~ Mar 31, 2023	Kinki Kyoto
YEOW, T. Z. NEW ZEALAND	Development and validation of an automated structural health monitoring system for post-earthquake building safety evaluations	The University of Tokyo KUSUNOKI, Koichi Professor Earthquake Research Institute	Mar 31, 2022~ Mar 30, 2024	Kanto Tokyo
AKRAM, M. PAKISTAN	Development of multi-functional antennas based on artificial electromagnetic materials	Nagoya Institute of Technology WAKATSUCHI, Hiroki Associate Professor Graduate School of Engineering	Nov 1, 2021~ Oct 31, 2023	Chubu Aichi
MUNEER, S. PAKISTAN	Smart wearable biosensors for disease biomarkers in continuous healthcare monitoring applications.	Osaka Prefecture University TAKEI, Kuniharu Professor Graduate School of Engineering	Sep 1, 2021~ Aug 31, 2023	Kinki Osaka
SHAFIQ, M. PAKISTAN	Elucidation of the role of immunomodulation for vascular tissue repair with bioactive blood vessel	Kyushu University IJIMA, Hiroyuki Professor Faculty of Engineering	Nov 30, 2021~ Nov 29, 2023	Kyushu Fukuoka
BOBRIN, V. RUSSIA FEDERATION	Mechano-Therapeutic Hydrogels to Aim Perfect Skin Wound Repair	National Institute for Materials Science YAMAUCHI, Yusuke Group Leader International Center for Materials Nanoarchitectonics	Nov 30, 2021~ Nov 29, 2023	Kanto Ibaraki
KUO, P. TAIWAN	Energy-efficient bioenergy-based Power-to-X-to-Power systems with CO2 utilization	The University of Tokyo AZIZ, Muhammad Associate Professor Institute of Industrial Science	Mar 28, 2022~ Mar 27, 2024	Kanto Tokyo
DANG, T. D. VIET NAM	Evolving hydropower and delta dykes in the Mekong: environmental impacts and system re-operations	The University of Tokyo YAMAZAKI, Dai Associate Professor Institute of Industrial Science	Jun 30, 2021~ Aug 15, 2021	Kanto Tokyo

<p>TRAN, H. T.</p> <p>VIET NAM</p>	<p>Study on effect of automatic deflector for drag reduction of road vehicles in cross-wind conditions</p>	<p>Kyushu University ANYOJI, Masayuki Associate Professor Faculty of Interdisciplinary Graduate School of Engineering Sciences</p>	<p>Nov 20, 2021~ Nov 19, 2022</p>	<p>Kyushu Fukuoka</p>
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