

JSPS Postdoctoral Fellowship for Foreign Researcher

FY 2015 Engineering Sciences

Name(Nationality)	Research Subject	Host Institute Host Researcher	Period	Region Prefecture
ABDUL MAJID PAKISTAN	Rare Earth based MoS ₂ monolayers: Material designs for future optoelectronics and Spintronics	Osaka University YOSHIYA, Masato Associate Professor Graduate School of Engineering	Oct. 5, 2015~ Oct. 4, 2017	Kinki Osaka
ALIMARDANI, M. IRAN	Development of adaptive human interfaces based on body ownership transfer in tele-operated androids	The University of Tokyo HIRAKI, Kazuo Professor Graduate School of Arts and Sciences	Apr. 6, 2015~ Apr. 5, 2017	Kanto Tokyo
AVANASHIAPPAN, N. INDIA	Precise targeting of drug delivery system by in vitro selection	RIKEN ITO, Yoshihiro Chief Scientist Nano Medical Engineering Laboratory	Oct. 31, 2015~ Oct. 30, 2017	Kanto Saitama
BOOKER, I. D. GERMANY	Charge carrier lifetime limiting defects in Silicon Carbide for power device applications	Kyoto University KIMOTO, Tsunenobu Professor Graduate School of Engineering	Nov. 17, 2015~ Nov. 16, 2016	Kinki Kyoto
BUI, C. VIET NAM	Spin-dependent thermopower in thin films of ferromagnetic semiconductors	Tokyo Institute of Technology PHAM, Nam hai Associate Professor Graduate School of Science and Engineering	Nov. 28, 2015~ Nov. 27, 2017	Kanto Tokyo
CHABCHOUB, A. GERMANY	Extreme Nonlinear Waves: Modelling, Impact and Prediction	The University of Tokyo WASEDA, Takuji Associate Professor Graduate School of Frontier Sciences	Sep. 20, 2015~ Sep. 19, 2017	Kanto Chiba
CHEN, Y. CHINA	Sub-nanometer ultra-precision edge profile measurement of diamond micro cutting tool	Tohoku University GAO, Wei Professor School of Engineering	Apr. 8, 2015~ Apr. 7, 2017	Tohoku Miyagi
CHEN, R. CHINA	Development of sewage treatment system by combing anaerobic membrane bioreactor and ANAMMOX process	Tohoku University LI, Yu-you Professor Graduate School of Engineering	Nov. 22, 2015~ Nov. 21, 2017	Tohoku Miyagi

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CHEN, J. CHINA	Size Effects of Metal-Insulator-Transition in thin Oxide films	The University of Tokyo TORIUMI, Akira Professor School of Engineering	Nov. 28, 2015~ Nov. 27, 2017	Kanto Tokyo
CHINNATHAMBI, S. INDIA	Application of near-infrared emitting quantum dots to pharmacokinetics and diagnosis	National Institute for Materials Science HANAGATA, Nobutaka Director Nanotechnology Innovation Station	Oct. 1, 2015~ Sep. 30, 2017	Kanto Ibaraki
CHUNDAK, M. UKRAINE	Laboratory-base operand characterization of metal-insulator interfaces for energy-saving device	National Institute for Materials Science YOSHITAKE, Michiko MANA Researcher MANA Nano-Electronics Materials Unit	Oct. 14, 2015~ Oct. 13, 2017	Kanto Ibaraki
DENG, G. CHINA	Investigation of ultra-thin nanostructured foils fabricated by accumulative roll bonding and asymmetrical rolling	Kyoto University TSUJI, Nobuhiro Professor Department of Engineering	Nov. 27, 2015~ Nov. 26, 2017	Kinki Kyoto
ECHUE, G. UNITED KINGDOM	Novel discotic liquid crystals as orienting agents for NMR	National Institute for Materials Science HILL, Jonathan MANA Researcher Center for Materials Nanoarchitectonics (MANA)	Nov. 29, 2015~ Nov. 28, 2017	Kanto Ibaraki
GAO, W. CHINA	Flame Propagation Mechanisms in Nano-dust Explosions	The University of Tokyo DOBASHI, Ritsu Professor Graduate School of Engineering	Sep. 30, 2015~ Sep. 29, 2017	Kanto Tokyo
GAO, P. CHINA	Uncovering the dynamic properties of structural defects in functional oxides by in situ TEM	The University of Tokyo IKUHARA, Yuichi Professor School of Engineering	Apr. 1, 2015~ Sep. 29, 2015	Kanto Tokyo
GARCIA YARNOZ, D. SPAIN	Low-Thrust Mission Design to Temporarily Captured Asteroids	Japan Aerospace Exploration Agency KAWAKATSU, Yasuhiro Associate Professor	Sep. 28, 2015~ Sep. 27, 2017	Kanto Kanagawa

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HAIMES, P. W. AUSTRALIA	Designing Accessible Disaster Information for Public Awareness	Tokyo Metropolitan University BABA, Tetsuaki Associate Professor System Design	May. 28, 2015~ May. 27, 2017	Kanto Tokyo
HO, Y.-L. TAIWAN	Plasmonic hybrid cavity-channel structure for subwavelength nanolasing	The University of Tokyo DELAUNAY, Jean jacques Associate Professor School of Engineering	Oct. 1, 2015~ Sep. 30, 2017	Kanto Tokyo
HSU, L. -T. TAIWAN	GNSS Positioning and Its Application in Autonomous Driving	The University of Tokyo KAMIJO, Shunsuke Associate Professor Institute of Industrial Science	Apr. 1, 2015~ Mar. 31, 2017	Kanto Tokyo
IBRAHIM, A. M. EGYPT	Advanced tsunami hazard map considering local acute wave deformation with the aid of hybrid SPH	Hokkaido University KIMURA, Ichiro Associate Professor Faculty of Engineering	Oct. 1, 2015~ Sep. 30, 2017	Hokkaido Hokkaido
IMAMOGLU, N. TURKEY	Investigating Representation and Computation in Cortical Networks Using Deep Learning Algorithms	RIKEN BENUCCI, Andrea Team Leader Brain Science Institute	Sep. 7, 2015~ Sep. 6, 2017	Kanto Saitama
ISLAM, M. N. BANGLADESH	Determination of fatigue crack initiation of composites for SOFC application	Saitama University ARAKI, Wakako Associate Professor Graduate School of Science and Engineering	Nov. 22, 2015~ Nov. 21, 2017	Kanto Saitama
JALILOV, S.-M. UZBEKISTAN	The economic value of clean urban water environment: Policy analysis for sustainable development	The University of Tokyo FUKUSHI, Kensuke Professor Integrated Research System for Sustainability Science (IR3S)	Sep. 1, 2015~ Aug. 31, 2017	Kanto Tokyo
JIANG, F. CHINA	Investigation of Highly Efficient CZTS-based Solar Cells Having A Novel Intermediate Band Structure	Osaka University IKEDA, Shigeru Associate Professor Research Center for Solar Energy Chemistry	Apr. 1, 2015~ Mar. 31, 2017	Kinki Osaka

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JIAO, F. CHINA	Reduction of alkali metals in ashes generated from incineration plants by chloride volatility method	Chubu University NINOMIYA, Yoshihiko Professor Faculty of Engineering	Apr. 8, 2015~ Apr. 7, 2017	Chubu Aichi
JIAO, W. CHINA	Correlation among relaxation, local atomic structures, and properties in metallic glasses	Tohoku University HIRATA, Akihiko Associate Professor Advanced Institute for Materials Research	Sep. 1, 2015~ Aug. 31, 2017	Tohoku Miyagi
JOOD, P. INDIA	All-scale hierarchical architecturing for developing thermoelectric materials and devices	National Institute of Advanced Industrial Science and Technology OHTA, Michihiro Senior Researcher Research Institute for Energy Conservation	Apr. 1, 2015~ Mar. 31, 2017	Kanto Ibaraki
KAUNITZ, L. N. ARGENTINA	From wakefulness into sedation and anesthesia through information transfer in the brain	The University of Tokyo TAKAHASHI, Hirokazu Lecturer Research Center for Advanced Science and Technology	Sep. 28, 2015~ Sep. 27, 2017	Kanto Tokyo
KOLOMENSKIY, D. RUSSIA FEDERATION	Multiscale Aerodynamics in Flapping Wing Flight	Chiba University LIU, Hao Professor Graduate School of Engineering	Apr. 6, 2015~ Apr. 5, 2017	Kanto Chiba
KUMAR, S. INDIA	High performance metal-borohydrides for hydrogen storage application	Hiroshima University KOJIMA, Yoshitsugu Professor Institute for Advanced Materials Research	Jul. 9, 2015~ Jul. 8, 2017	Chugoku Hiroshima
LALA, D. K. NEW ZEALAND	Intelligent Support for Communication Skill Learning through Virtual Team Sports	Kyoto University KAWAHARA, Tatsuya Professor Graduate School of Informatics ,Kyouto University	Apr. 1, 2015~ Mar. 31, 2017	Kinki Kyoto
LIU, M. CHINA	Development of multilayer steels for improved combinations of high strength and high ductility	The University of Tokyo KOSEKI , Toshihiko Professor School of Engineering	Nov. 16, 2015~ Nov. 15, 2017	Kanto Tokyo

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LOU, Z. CHINA	High efficient solar energy conversion materials by rare metal-doped semiconductor photocatalyst	Osaka University MAJIMA, Tetsuro Professor The Institute of Scientific and Industrial Research	Jul. 14, 2015~ Jul. 13, 2017	Kinki Osaka
LU, H. CHINA	Research and Development of Smart Real-time Imaging System for Deep-Sea Mining Machine	Kyushu Institute of Technology SERIKAWA, Seiichi Professor Engineering	Apr. 1, 2015~ Mar. 31, 2017	Kyushu Fukuoka
MA, G. CHINA	Falling Motion Control of a Humanoid Robot for Safety Landing during Walking	Waseda University TAKANISHI, Atsuo Professor Dept. of Modern Mechanical Engineering	Jul. 31, 2015~ Jul. 30, 2017	Kanto Tokyo
MAO, H. CHINA	Multifunctional peptide-metal nanoplatform for cancer imaging and therapy	RIKEN KAWAMOTO, Masuki Senior Research Scientist Nano Medical Engineering Laboratory	Apr. 1, 2015~ Mar. 31, 2017	Kanto Saitama
MARINI, S. ITALY	Data fusion for cleavage target knowledge discovery and modeling	Kyoto University AKUTSU, Tatsuya Professor Institute for Chemical Research	Nov. 26, 2015~ Nov. 25, 2016	Kinki Kyoto
MOTAKATLA, V. INDIA	Development of the sustainable production of middle chain fatty acids (MCFA) from the waste streams	Muroran Institute of Technology CHANG, Young-cheol Professor Graduate School of Engineering	Sep. 1, 2015~ Aug. 31, 2017	Hokkaido Hokkaido
MURANYI, D. HUNGARY	Phylogenetic Re-evaluation of Species Diversity of Japanese Caddisfly: DNA and Morpho-based Taxonomy	Ehime University WATANABE, Kozo Associate Professor Graduate School of Science and Engineering	Jun. 16, 2015~ Dec. 15, 2016	Shikoku Ehime
NASSR, A. A. CANADA	Assessment of Damage to Critical Infrastructures Located in Urban Areas from Tornado and Tornado Generated Missiles	Kyoto University YAGI, Tomomi Professor Graduate School of Engineering	Sep. 1, 2015~ Aug. 31, 2017	Kinki Kyoto

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NAWROCKI, R. A. U.S.A.	Organic analog neuromorphic integrated circuits and their applications for environmental sensing of big data in "e-skin" applications	The University of Tokyo SOMEYA, Takao Professor School of Engineering	Sep. 1, 2015~ Aug. 31, 2017	Kanto Tokyo
NEEMA, M. N. BANGLADESH	Ga-Based Hybrid Simulation Approach for Urban Greenery Strategy to Improve Degraded Air Quality	Toyohashi University of Technology ASANO, Junichiro Professor Faculty of Engineering	Nov. 30, 2015~ Nov. 29, 2017	Chubu Aichi
NGUYEN, T. T. VIET NAM	Planar active THz metamaterials using phase change materials	RIKEN TANAKA, Takuo Team Leader RIKEN Center for Advanced Photonics	Sep. 1, 2015~ Aug. 31, 2017	Kanto Saitama
NGUYEN, T. T. VIET NAM	Semiconductor Spintronics Materials and Devices with Fe-based III-V Ferromagnetic Semiconductors	The University of Tokyo TANAKA, Masaaki Professor Graduate School of Engineering	Nov. 1, 2015~ Oct. 31, 2017	Kanto Tokyo
OLMATI , P. ITALY	Structural dynamics for accidental impulsive loads striking civil buildings	Tokyo Polytechnic University YOSHIDA, Akihito Professor Department of Architecture, Faculty of Engineering	Nov. 21, 2015~ Nov. 20, 2017	Kanto Kanagawa
OUTRAM, B. UNITED KINGDOM	Haptic Interface for Connected Virtual Reality (VR) and Telexistence	Keio University MINAMIZAWA, Kouta Associate Professor Graduate School of Media Design,	Sep. 16, 2015~ Sep. 15, 2017	Kanto Kanagawa
PACHFULE, P. S. INDIA	Tailoring hierarchical pore structure of carbon materials for high-performance energy storage	National Institute of Advanced Industrial Science and Technology XU, Qiang Chief Senior Researcher Research Institute of Electrochemical Energy, Research Group of Functional Material for Energy	Oct. 5, 2015~ Oct. 4, 2017	Kinki Osaka
PARK, S.-G. KOREA (REP. OF KOREA)	Development of fatigue-free autostereoscopic display	Tokyo University of Agriculture and Technology TAKAKI, Yasuhiro Professor Institute of Engineering	Oct. 19, 2015~ Oct. 18, 2017	Kanto Tokyo

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PARK, D. KOREA (REP. OF KOREA)	Study on Multifunctional Spacecraft Thermal Control Device based on Metal-Insulator Phase Transition	Nagoya University NAGANO, Hosei Associate Professor Graduate School of Engineering	Oct. 1, 2015~ Sep. 30, 2017	Chubu Aichi
PAULMANICKAM, K. INDIA	Design of functional layered double hydroxide nanosheets as eco-materials	Kyushu University SASAKI, Keiko Professor Faculty of Engineering	Nov. 30, 2015~ Nov. 29, 2017	Kyushu Fukuoka
PAUTY, J. FRANCE	Development of tumor microenvironment models using microtechnology	The University of Tokyo MATSUNAGA, Yukiko Lecturer Institute of Industrial Science	Sep. 29, 2015~ Sep. 28, 2017	Kanto Tokyo
PERIYASAMY, S. INDIA	Development of extraction and two-stage fermentation process for fuel production from oily wastes	National Institute for Environmental Studies XU, Kaiqin Head Center for material cycles and waste management research	Nov. 28, 2015~ Nov. 27, 2017	Kanto Ibaraki
PETZOLDT, A. GERMANY	Developing a Practical and Secure Multivariate Encryption Scheme	Kyushu University TAKAGI, Tsuyoshi Professor Institute of Mathematics for Industry	Oct. 12, 2015~ Oct. 11, 2016	Kyushu Fukuoka
RAMIERE, A. M. FRANCE	Thermal conduction in Silicon phononic crystals at ultralow temperature	The University of Tokyo NOMURA, Masahiro Associate Professor Institute of Industrial science	Apr. 1, 2015~ Mar. 31, 2017	Kanto Tokyo
RAVI, S. INDIA	Multidisciplinary research on the mechanics of flight of natural and bio-inspired systems in complex out door environments	Chiba University LIU, Hao Professor Graduate School of Engineering	Jun. 5, 2015~ Jun. 4, 2016	Kanto Chiba
ROY, A. INDIA	Three-dimensional nanoanalyses of catalytic nanocomposite by electron tomography	Kyushu University KANEKO, Kenji Professor Faculty of Engineering	Sep. 29, 2015~ Sep. 28, 2017	Kyushu Fukuoka

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SINGH, T. INDIA	Interface Engineering of Efficient Environmental Friendly Perovskite Solar Cells	Toin University of Yokohama MIYASAKA, Tsutomu Professor Graduate School of Engineering	May. 19, 2015~ May. 18, 2017	Kanto Kanagawa
SINGH, M. K. INDIA	Development of the adaptive model of thermal comfort for office builings of India	The University of Tokyo OOKA, Ryoza Professor Institute of Industrial Science	Nov. 25, 2015~ Nov. 24, 2017	Kanto Tokyo
SIVALINGAM, Y. INDIA	Novel photo sensors and light-emitting transistors based on hybrid nanomaterials	Tohoku University TANIGAKI, Katsumi Professor Advanced Institute for Materials Research	Apr. 1, 2015~ Mar. 31, 2017	Tohoku Miyagi
SKALOMENOS, K. A. GREECE	Establishment of Design Method for Self-Centering Composite Frames with Double-Skin CFT Columns	Kyoto University NAKASHIMA, Masayoshi Professor Disaster Prevention Research Institute	Apr. 1, 2015~ Mar. 31, 2017	Kinki Kyoto
SODERZNIK, M. SLOVENIA	Detailed studies on microstructure-magnetic property relations of the Nd-Fe-B magnets	National Institute for Materials Science HONO, Kazuhiro Fellow Magnetic Materials Unit	Nov. 29, 2015~ Nov. 28, 2016	Kanto Ibaraki
SUBRAMANI, T. INDIA	Development of flexible silicon nanostructure solar cells	National Institute for Materials Science FUKATA, Naoki Group Leader International Center for Materials Nanoarchitectonics	Nov. 16, 2015~ Nov. 15, 2017	Kanto Ibaraki
TAYLOR, R. J. UNITED KINGDOM	On-Chip Beam Steering and Shaping Using Photonic Crystal Surface Emitting Laser	The University of Tokyo TANEMURA, Takuo Associate Professor School of Engineering	Nov. 27, 2015~ Nov. 26, 2017	Kanto Tokyo
TEKKOUK, K. FRANCE	Advanced flat integrated millimeter-wave antenna systems for 5G heterogeneous networks and beyond	Tokyo Institute of Technology HIROKAWA, Jiro Professor Graduate School of Science and Engineering	Oct. 4, 2015~ Oct. 3, 2017	Kanto Tokyo

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THOMAS, D. G. FRANCE	Dense 3D modelling using RGB-D cameras: embedded systems, crowdsourcing and dynamic scenes	Kyushu University TANIGUCHI, Rinichiro Professor Faculty of Information Science and Electrical Engineering	Apr. 1, 2015~ Mar. 31, 2017	Kyushu Fukuoka
TRAORE, A. MALI	Diamond Metal Oxide Semiconductor Field Effect Transistor processing for high power applications	National Institute of Advanced Industrial Science and Technology YAMASAKI, Satoshi Invited Senior Researcher Advanced Power Electronics Research Center	May. 1, 2015~ Apr. 30, 2017	Kanto Ibaraki
UNNI, S. M. INDIA	Carbon alloy electro catalysts based on MOF precursor and high performance Pt free fuel cells	Tokyo Institute of Technology YAMAGUCHI, Takeo Professor Chemical Resources Laboratory	Nov. 29, 2015~ Nov. 28, 2017	Kanto Kanagawa
WADELL, C. O. SWEDEN	Quantitative Plasmonic Sensing of Electron Beam Effect in Transmission Electron Microscopes	Tokyo Institute of Technology SANNOMIYA, Takumi Associate professor Department of Innovative and Engineered Materials	Oct. 1, 2015~ Sep. 30, 2017	Kanto Tokyo
WANG, Y. CHINA	Photocatalysts/Functionalized -Graphene: Enhancing Charge Transport, Reactivity and Selectivity	The University of Tokyo FUGETSU, Bunshi Professor Dept of Technology management for innovation	Apr. 1, 2015~ Mar. 31, 2017	Kanto Tokyo
WU, L. CHINA	Separation of rare cell in high speed	Nagoya University ARAI, Fumihito Professor Department of Micro-Nano Systems Engineering, Graduate School of Engineering	Sep. 20, 2015~ Sep. 19, 2017	Chubu Aichi
WU, Y. CHINA	Numerical analysis of methane hydrate-bearing sediment deformation during long-term gas production	Yamaguchi University HYODO, Masayuki Professor Graduate School of Engineering and Science	Oct. 1, 2015~ Sep. 30, 2017	Chugoku Yamaguchi
XIA, P. CHINA	Holographic microscopy for 3D structure measurement and spectroscopic measurement of moving object	Kobe University MATOBA, Osamu Professor Graduate School of System Informatics	Apr. 1, 2015~ Mar. 31, 2017	Kinki Hyogo

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YU, J. CHINA	Preparation of V ₂ O ₅ -WO ₃ /TiO ₂ (-SiO ₂) deNO _x catalyst from industrial H ₂ TiO ₃ directly	National Institute of Advanced Industrial Science and Technology ZHANG, Zhanguo Chief Senior Researcher Research Institute of Energy Frontier, Hydrocarbon Conversion Process Group	Nov. 19, 2015~ Nov. 18, 2017	Kanto Ibaraki
YU, Z. CHINA	New alloy design for high performance magnesium alloys containing heavy rare earth metals	Nagaoka University of Technology KAMADO, Shigeharu Professor Graduate School of Engineering	Oct. 7, 2015~ Oct. 6, 2017	Chubu Niigata
ZHANG, W. AUSTRALIA	Developing graphene electrochemical sensors as early alert screening tools for algal toxin assessment	The University of Tokyo FURUMAI, Hiroaki Professor Graduate School of Engineering	Sep. 30, 2015~ Sep. 29, 2017	Kanto Tokyo
ZHANG, Y. CHINA	Developing copula based translational reliability methods for structural health monitoring	Kyoto University KIM, Chul-woo Professor Graduate School of Engineering	Nov. 19, 2015~ Nov. 18, 2017	Kinki Kyoto
ZHAO, G. CHINA	Constructing effective photocatalysis for CO ₂ reduction based on g-C ₃ N ₄ framework	National Institute for Materials Science YE, Jinhua Unit Director Environmental Remediation Materials Unit, Environment and Energy Materials Division	May. 7, 2015~ May. 6, 2017	Kanto Ibaraki
ZHU, L. CHINA	Development of binding growth factors by bio-orthogonal approach	RIKEN ITO, Yoshihiro Chief Scientist and Director Nano Medical Engineering Laboratory	Apr. 1, 2015~ Jun. 30, 2018	Kanto Saitama
ZHU, Y. CHINA	Study on high efficiency metal foam cooler for High Concentration Photovoltaic Thermal systems	The University of Tokyo DANG, Chaobin Associate Professor Graduate School of Frontier Sciences	Nov. 26, 2015~ Nov. 25, 2017	Kanto Chiba