

LG Electronics Recruiting



LG전자 해외 우수 R&D 인재 채용

- 모집기간 2015년 9월 3일(목) ~ 2015년 9월 30일(수)
- 지원방법 (On-line 지원)
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 → 공고명 "[LG전자] 2015 해외 우수 R&D 채용(신입/경력)" → 지원서 작성

● 지원분야

조직구분	모집분야	관련전공
Home Entertainment	<ul style="list-style-type: none"> ■ SW Platform <ul style="list-style-type: none"> - webOS Core / Web technology / Security / Media Streaming / SDK / BSP / Linux Kernel / Compiler ■ SW Architecture <ul style="list-style-type: none"> - Data Mining & Analysis - Data collection / ETL / Establishment of Dashboard / Design & Establishment of Data Service Platform ■ UX <ul style="list-style-type: none"> - Finger Gesture / Camera Framework / FullBody technology / Facial Recognition / Camera / Natural Language Processing / Long Distance Speech Recognition / Speech Recognition / STT&TTS - UX Design / UX Prototyping ■ SoC <ul style="list-style-type: none"> - Planning & Establishment of Mid / Long-term Strategy for Smart TV SoC - Mid/Long-term HW Requirements for Smart TV - Analysis of Latest SoC Technology & Establishment of Differentiation Strategy by Application of SoC - Analysis of SoC Architecture & Establishment of Improvement Plan - User Scenario-Optimized SoC Architecture & Ideation 	Electrical / Electronic Engineering Computer Science Semiconductor
	<ul style="list-style-type: none"> ■ SW <ul style="list-style-type: none"> - Android & OS : Linux Kernel / Device Driver / BSP - Multimedia : Audio / Camera / Video - Application : Mobile App. - Protocol (Modem) : LTE/LTE-A / Architecture / Android Platform / Open Source SW Platform - Data Mining / Application / Web Programming / Machine Learning / Cloud Server & Analysis / Context Awareness M2M / Artificial Intelligence - Robot SW Platform / System SW / Vision Analysis / Control / Power Saving & Battery Management (Fast Charging) - Energy Management / OS/Kernel / Web Platform / SDK / System SW / Application SW - Web Technology : Web Platform / Web OS / Web Application - ETC : Computer Vision / Voice Recognition / Sensor Application ■ UX : User Experience Research(FGD, FGI) / UX/UI Interaction Design & User Centered Design / Human Behavior Centered UX Design ■ HW : Wireless Communication Technology(RF / Antenna Design) / System Design : Circuit Design & Optimization ■ Mechanics : Structural Design / Exterior(Material/New Material/Surface Treatment/Die Casting) 	Electrical / Electronic Engineering Mechanical Engineering Material Engineering Computer Science HCI
Home Appliance & Air Solution	<ul style="list-style-type: none"> ■ Appliance R&D <ul style="list-style-type: none"> - Structure Design / Refrigerating Cycle and Thermal Fluid System Development / Dynamic Analysis / Noise and Vibration - Freshness & Hygiene / Thermoelectric Module / Insulation (Urethane foaming, Vacuum insulation) 	Mechanical Engineering Material Engineering Chemistry Engineering
	<ul style="list-style-type: none"> ■ Appliance Control R&D <ul style="list-style-type: none"> - Power Electronics(Inverter/Converter) / Wireless Power / Electronic Signal Transceivers(Smart) / Vision Sensor Application 	Electrical / Electronic Engineering Computer Engineering Power Electronics
	<ul style="list-style-type: none"> ■ Air Conditioning & Chiller R&D <ul style="list-style-type: none"> - Thermal Fluid Analysis / Fan Design / Performance Analysis- Computational Fluid Dynamics(CFD) / Computer Aided Engineering(CAE) - Optimal Design / Structural Design / Noise and Vibration / Sheet Metal Forming - Inverter System Algorithms / Logic Design / Motor / Compressor Design / Smart Sensors / Waste Heat Recovery / 2 Phase Flow / Heat Transfer / Cooling System 	Electrical / Electronic Engineering Mechanical Engineering Material Engineering Chemistry Refrigeration / Air conditioning Engineering
	<ul style="list-style-type: none"> ■ Air Conditioning Control & BdMS R&D <ul style="list-style-type: none"> - IPMSM Control(Sensor-less Vector Control, Motor Control) / Single Phase / Three Phase PFC Control / Digital Control / Automatic Control / PSIM or Matlab Simulation / Embedded System - Building Management System / Home Management System Control / Network Protocol 	Electrical / Electronic Engineering Computer Engineering Power Electronics
Vehicle Components	<ul style="list-style-type: none"> ■ Motor <ul style="list-style-type: none"> - Motor Design / Motor Cooling / Cooling Circuit Design / Permanent Magnetic AC/DC Motor Design&Development of mass production - B-ISG : Belt-Integrated Starter and Generator - System Reliability Test : Design Verification and Validation / Rotor Dynamic Reliability Design / Analysis / Vibration / Noise - Drive Unit Structural Design & Cooling System Design / Reducer(Decelerator) Design / Thermal Analysis & Evaluation / Structural Design & Analysis ■ Battery Pack <ul style="list-style-type: none"> - Battery Packs for Electrical Vehicles / System Design / Structural Stiffness Design / Safety Design / Cooling System Design / Battery Pack Electric Frame Design ■ Inverter <ul style="list-style-type: none"> - DSP / Micorh Application Technology Research - Power Electronic Circuit Design & Control / Inverter Drive System - Motor control Algorithm Development(Sensorless / Sensorred Control) ■ Converter <ul style="list-style-type: none"> - Charger Algorithm Development using DSP / Microprocessor - PFC Control for Single-Phase / Three-Phase / AC-DC Converter - High Efficiency Converter Topology / Passive Element Design & Reaserch - Resonant Converter Design ■ Automotive(Car) Exterior Design <ul style="list-style-type: none"> - Related to Design / Test / Analysis / Control 	Electrical / Electronic Engineering Mechanical Engineering Power Electronics Physics
	<ul style="list-style-type: none"> ■ HVAC System <ul style="list-style-type: none"> - Vehicle HVAC(Heating, Ventilation, Air Conditioning) System Research - Automobile Air Conditioner(Refrigerant) Performance Reserch - HEX(Heat Exchanger) / Heat Pump / Fan & Flow Research - HEX(Heat Exchanger) Design / Development of Design Simulation Program for HEX(Heat Exchanger) / Heat Pump Design / Fan & Flow Channel Design 	Mechanical Engineering Aerospace Engineering Refrigeration / Air conditioning
	<ul style="list-style-type: none"> ■ In-Vehicle Infotainment <ul style="list-style-type: none"> - BSP / Kernel / Driver / Power Management / HMI / SWDL / LCD / Touch Protocol / Radio(DAB, RDS, WCDMA, LTE) / Bluetooth / WiFi / Network Service(RIL, MBIM) / CAN Communication / BAP Protocol / Diagnostic Framework / Security / Service / Multimedia / Application/Windows C++/C#, Android Javal - MirrorLink / Linux OS / Micom / C / C++ / C# / Low Level coding / Audio DSP Research / Cordless Charging Technology(Wireless Charging) / Wireless Charging Coil Design - EMF/EMC ■ ADAS(Advanced Driver Assistance System) & AVM(Around View Monitoring) <ul style="list-style-type: none"> - Display Application Technology Research / Camera and Optical Design Technology / DSP / Micom Application Design / Wireless protocol / RF & RF System Design / Optimal Design - Embedded System Power Management - Machine Vision / Design of Recognition / Learning Algorithm / AP Chip Application Development based on ARM / Radio Tuning / Embedded / HW Development - Web Platform / HTML5(Open Source Platform) 	Electrical / Electronic Engineering Mechanical Engineering Computer Engineering Computer Science
Chemical & Electronic Material	<ul style="list-style-type: none"> ■ Material <ul style="list-style-type: none"> - Nano Material / QD(Quantum Dot) Material / Barrier Material / Resin(UV, Thermal) / Graphene / Ag Ink(Nano) / Solar Paste / Adhesive Material Organic / Inorganic Hybrid Resin / Optics / Optoelectronics / Digital Circuit Design / Flexible Material / Material Analysis ■ Process <ul style="list-style-type: none"> - Coating / Laminating / Curing(UV, Thermal drying) / Patterning(Imprinting, Laser, Etching) / Punching / Dispersion / Printing / Sintering / Surface Treatment / Bonding / Vapor Deposition / Water Treatment / Mechanism Design / Anodizing 	Material / Physics / Chemistry / Electrical / Electronic Engineering
C70	<ul style="list-style-type: none"> ■ Motor / Comp. / Inverter <ul style="list-style-type: none"> - Motor Design / Motor Cooling Design / Electro-magnetic Analysis - Rotor Reliability Design / Vibration / Noise Reliability Design - Inverter / Converter Topology Design / Cooling System Design / Thermal Analysis & Structural Analysis - Fan Design / Flow Path Design / Heat Exchanger Design / Radiation Design - Metal Material / Tribology/Electronic Material - Physics / Mathematics 	Mechanical / Physical / Mathematical / Control / Electrical / Electronic Engineering and related majors
	<ul style="list-style-type: none"> ■ 5G Technology Development & Implementation <ul style="list-style-type: none"> - 4G / 5G Physical Layer / Wireless Protocol / Network Architecture / Radio Resource Management - Technical Performance Analysis and Verification [Channel Modeling, System-level Experimental Modeling Links] - Implement and Optimize Communications Technology (DSP, FPGA-based Communication Technology Implementation, RF / Antenna Signal Processing) ■ Mobile Communications Physical Layer Standards <ul style="list-style-type: none"> - Communication PHY / MAC / Information Theory (Multiple Antenna, Carrier Aggregation, Resource Allocation, Duplexing, Multiple Access, Relay, Cooperative Communication, HetNet, Small Cell, Licensed Assisted Access, Machine Type Communication, Device-to-Device Communication, Vehicle-to-Everything, Latency Reduction, Channel Modeling, etc.) - Communication Link / System Simulation Capabilities [C/C ++, Matlab] - Mobile Communication Standard Technology [LTE-A, LTE, HSDPA, HSUPA, HSPA ++, WCDMA, WiMax, EVDO, CDMA2000, GSM] ■ Mobile Communication Protocol Standardization <ul style="list-style-type: none"> - Terminal / Base Station Protocol (MAC, RLC, PDCP, RRC, NAS) - Packet Data Protocol (TCP / IP Stack, Mobile IP, Packet Based Routing, QoS / Security, etc.) - Mobile Communication System Architecture and Service Requirements (EUTRAN, EPC, MME, Gateway, Interworking Function, SDN / NFV, CCN, CDN, etc.) - Mobile Communication Standards and Technology (LTE-A, LTE, IETF Technologies, Location, Security, etc.) ■ IoT / M2M Service Platform Technology Development and Standardization <ul style="list-style-type: none"> - IoT / M2M Service Platform and API Design (M2M Service Middleware, LBS, Device Management, etc.) - IoT / M2M Application Technologies (Web Services, Semantic, Data Mining, Big Data, etc.) - Communication and Network Theory (Sensor Network, Server-Client, HTTP, IETF Technologies, QoS / Security, etc.) ■ Next-Generation Wi-Fi Technology Development and Standardization <ul style="list-style-type: none"> - Communication Network Based on Theory (Communication System, Detection & Estimation, Modulation and Coding, Signal Processing, Data Communication, TCP / IP, etc.) - Communications PHY / MAC theory (MIMO, Beamforming, OFDM(A), Synchronization, Sequence, Resource Allocation, MAC protocol, etc.) - The Communication Link / System Simulation Capabilities [C/C ++, Matlab, NS2/3] - Wi-Fi Standard Technical Understanding [802.11a/b/g/n/ac, Wi-Fi Direct, 802.11ad, Wi-Fi Direct, Miracast, Wi-Fi Aware, etc.] - Wi-Fi-Based Applications Service Development (Embedded Linux, Android, WPA Supplicant, Linux Device Driver, C, C ++, JAVA) - Next-Generation Wi-Fi Technology Development and Standardization [802.11ax (Next-Generation Wi-Fi), 802.11ay (Next Generation 60GHz), 802.11az (High-Precision Indoor Positioning), Wi-Fi Alliance] ■ Bluetooth IoT Technologies and Standardization <ul style="list-style-type: none"> - Communication Network Based on Theory (Communication System, Detection & Estimation, Modulation and Coding, Signal Processing, Data Communication, TCP/IP, etc.) - Communication PHY / MAC Theory (Modulation, Synchronization, Resource Allocation, MAC protocol, Co-existence etc.) - Communication Link / System Simulation Capabilities [C/C ++, Matlab, NS2/3] - Bluetooth Standard Technical Understanding (Bluetooth BR / EDR, Bluetooth Low Energy, Security, Pairing, Application Profile, etc.) - Bluetooth-based Applications Service Development (Embedded Linux, Android, webOS TV, C, C ++, JAVA) - Next-Generation Technology Development and Standardization Bluetooth (Long Range, Mesh, Low Energy Audio, Ultra-Precision Indoor Positioning) 	Electrical / Electronic Engineering Computer Engineering and related majors
	<ul style="list-style-type: none"> ■ Next-Generation Broadcasting Media Standards <ul style="list-style-type: none"> - Audio / Video Compression and Decompression Standards - Image Processing, Information Theory, Signal Processing, Computer Vision - Video Compression Standard (MPEG2, H.264 / AVC, HEVC and Expansion Technology) Research - Audio compression standard (MPEG2, AAC, MP3, MPEG-H 3D audio, etc.) Knowledge - Matlab and C/C ++ Proficiency Required SIMD / GPU / Multi-Threading RTL Coding of Parallelism Programming - Broadcasting System / Transmission and Service Development and Standardization - MPEG, ATSC, DVB, DTMB, ISDB-T, DAB, World DMB, DASH, W3C Standards - Next Generation of Broadcast Media A/V Channel Coding for Transmission, Transmission Capacity and Waveform, FEC Technique for Improving Reception Performance - Virtual / Augmented Reality (VR / AR) HMD / HUD / Hologram SW Development - Complex extension System - Mobile and Vehicles, Signage and A/V Works Wired/Wireless Protocol and Service - FPGA, Transmit / Receive System Implemented on the DSP System and Digital TV, Broadcast Services in Realistic SW implementation - Ultra-high Resolution and Realistic Leading Media Development and Standardization : HDR (OETF / EOTF modeling), Color Grading, Mastering Techniques, Image Analysis, Tone Mapping - WCG Color Quality Enhancement, Color Volume Mapping, Color Difference Modeling, Color Gamut Design - HFR Video Coding (H.264, HEVC, VP9, etc.) Technology - AR and VR and 3D, AD and Multi Video Processing Standardization - Programming Skills: Matlab, Visual C - Standardization Based Media Player Storage and Protection - BDA, SMPTE, DECE (UVI, RVU, SCSA, Global Patent Standards - IP-based Storage and A/V Content and Operations Management, Service Standards - Content Protection, Protection of IP Flow, CAS, DRM Standards 	Electronics / Semiconductor / Electronic Communication / Computer Engineering and related majors
	<ul style="list-style-type: none"> ■ Chip <ul style="list-style-type: none"> - Mobile SoC Design / Computer Architecture / Mobile System Solution(BSP, Kernel, Multi Core), Mobile Chip Design / Mobile Verification - Device Modem Chip Protocol SW Development / Device Modem Chip HW Design / Device Modem SoC Development / Device RF Design - Computer Vision Algorithm / Vehicle Semiconductor Design / Computer Architecture or Compiler / Mixed IP Design - Analog Circuit Design / Process Integration / TG/ISP Digital Design / CMOS Image Sensor Test Program - Mobile / Consumer / and Automotive SoC Physical Design / Design Methodology Develop and Design Automation 	Electrical / Electronic Engineering Mechanical Engineering Computer Science HCI / UI
	<ul style="list-style-type: none"> ■ Intelligence <ul style="list-style-type: none"> - Image Processing & Computer Vision / 3D Vision Reconstruction / Robotics - Deep Learning [Vision, Speech, Bio Data, etc.], Machine Learning / AI [Artificial Intelligence] / Q&A / Deep Q&A / Topic Modeling - Context Awareness / VR / AR - Data Mining & Analysis / Human Computer Interaction / Speech & Audio Processing - Medical Device / Wearable Device (Human Small Hand-Held Device, Mounting Device), Medical Ultrasound Technology Development - Bio Signal Processing / Verification / Embedded System Design / Integration / Optimization / Verification - Human Machine Interface (Human Computer Interaction, 3D Graphics, Image Processing & Computer Vision) - Speech & Audio Processing - Learning-based Image Recognition / Processing / Clustering / Semantic Understanding / Computer Vision - Virtual / Augmented Reality (VR / AR) HMD / HUD / Hologram SW Development - Robot / Drone Intelligence (Voice, Vision, HRI), Mechanism / Circuit / Control R&D [Applications: Service Robots, Industrial Robots, Drones, Unmanned Car] - Intelligence & Service [Data Mining & Analysis, Context Awareness, Natural Language Understanding, Machine Learning, Artificial Intelligence, Service Platform] ■ Autonomous Vehicle Driving <ul style="list-style-type: none"> - Mobile Robot or UGV (Unmanned Ground Vehicle) Research - SLAM Algorithm Development / Application - Optimized Path Planning / Tracking Algorithm Research - Proficient C/C++ / Matlab / LabView Programming ■ Embedded System Development <ul style="list-style-type: none"> - Autonomous Vehicle Radar / LiDAR Technology - Automotive Radar System Radar and Algorithm Development <ul style="list-style-type: none"> : Radar FMCW Design / Detection Algorithm / Direction of Arrival / Synthetic Aperture Radar / Tracking Algorithm / etc. : Pedestrian Detection / Radar Test & Validation - Car Radar Antenna Design: Patch Antenna, Phase Array Antenna - Development Car Radar Embedded SW <ul style="list-style-type: none"> : SW Architecture Research, SW Framework Development, Embedded System SW Design : Optimization : Micom / DSP Processor, Embedded System Peripheral Interface : SW Development Process & Test - Car LiDAR System and Algorithm Research : TOF Signal Processing, FMCW Design, Detection Algorithm, Direction of Arrival, Classification, Tracking Algorithm, etc. : LiDAR Test & Validation 	Electronic / Robotics / Automotive Engineering and related majors
Innovation Business Center	<ul style="list-style-type: none"> ■ Innovative Product Planning & Service Planning <ul style="list-style-type: none"> - New Service Planning & Business Development - Prototyper[Deliver innovative, engaging prototypes] / Product Manager / UX Designer / Interaction Designer - Design Thinking ■ New Business Strategy Development <ul style="list-style-type: none"> - Business Modeling & Incubation / Business Feasibility Analysis / Business Planning - Find and develop plan to build strategic partnership with new biz partners - Marketing Intelligence / Marketing Strategy / Product Marketing ■ Quick Prototyping 	Electrical / Electronic Engineering Mechanical Engineering Computer Science HCI / UI
	<ul style="list-style-type: none"> ■ Life Style Research / Design / UX 	Design / UX/UI
Smart Business Center	<ul style="list-style-type: none"> ■ IoT[Internet of Things] / Smart Home / Big Data / Service & Contents (Smart TV & Mobile) - Communication Device - Data Mining & Analysis / Human Computer Interaction - Intellectual Property / Prosecution & Portfolio Management / Analysis / Licensing / Litigation / Strategy - Code Analysis & Refactoring / SW Architecture Evaluation & Design / Agile Methodology - Broadcasting Service & Standardization / Android Platform / Cloud Server / Data Mining & Analysis / Context Awareness / Artificial Intelligence / OS / Kernel / Sensor 	Electrical / Electronic Engineering Telecommunication Engineering / Computation Engineering / Computer Science
	<ul style="list-style-type: none"> ■ Solar <ul style="list-style-type: none"> - SolarCell : Device / Silicon Crystal Growth / Metal paste - Solar Module : Module Long Term Reliability / High Reliability Film(EVA,PET,POE,PE,etc) - Microinverter : Solar MPPT Algorithm / Grid Integration 	Electrical / Electronic Engineering Material Engineering Polymer / Physics
Energy Business Center	<ul style="list-style-type: none"> ■ ESS(Energy Storage System) <ul style="list-style-type: none"> - PCS HW Development : AC/DCsimulator, High Efficiency Inverter HW & Control Design / High Efficiency, High Voltage Converter Design & Controller Development - PCS SW Development : PCS Power Control Programming / DSP & Arm Processor Board & SW Design - BMS Development : BMS Algorithm Development, Embedded SW realization & verification - Battery Pack Design : Battery Module, Pack Structure Analysis and Design - Battery Cell estimation : Securing Estimation Data to develop Battery Management System, Cell Requirement & Specification Creation - EMS Development : ESS Control Programming for Smart Grid, WIN32 application, Embedded C Development, DNP3.0, IEC61850 communication Programming - Simulator Development : EMTDC, PSCAD Tool usage ability, MATLAB, Simulator Modeling through Simulink, OPF Analysis - Mechanic Design & Analysis : PSU Mechanic Design, Heat flow Analysis, Structure vibration Analysis 	Power Electronics / Mechanics / CFD Simulator / Electric Computer / ICT Material
Materials & Devices Advanced Research Institute	<ul style="list-style-type: none"> ■ Intelligent Sensors <ul style="list-style-type: none"> - Materials for Sensors : Synthesis, Process of Inorganic Material[Metal Oxide like SnO2, WO3 etc] - CMOS/ MEMS Integration Process, CMOS IC Design - HW or SW for Sensor Network : Gateway(WiFi, BLE, Zigbee, Zwave), Low Power Communications, Firmware - Inverter/ Converter Circuit Design, MCU Firmware/ HW Programming - Android/ IOS App and Sensor Integration UI/ UX : C++/Embedded Linux/RTOS, SPSS Tool, Firmware[C/C++ etc]/SW/Java, C++/C# etc) ■ Materials <ul style="list-style-type: none"> - Optical Materials[Optical Coating, Diffuser, Sapphire Glass etc] for High Power Lamps(like Headlamps) - Amorphous Metal for Coating[Ultra Hardness, Low Friction] - Heat Transfer Materials[Nano Composite, Hybrid Materials etc] - Environmental Materials[Hardness Elimination for Water, Deodorization for Air, etc] - Thermoelectric Materials 	Material [metal,new material] / Physics / Chemistry/polymer / Computer / Mechanical Engineering Electrical / Electronic Engineering
Production engineering Research Institute	<ul style="list-style-type: none"> ■ Automation Technology <ul style="list-style-type: none"> - Printed Electronics Technology / Roll-to-Roll Transferring Technology - Coating / Dispensing / Substrate Processing Technology - Bonding / Laminating Technology / Automation & System Engineering 	Mechanical Engineering Electrical / Electronic Engineering Industrial Engineering
	<ul style="list-style-type: none"> ■ Process Technology <ul style="list-style-type: none"> - Pattern Processing Technology [Optics, Opto-mechanical Design, Exposure, Ultra-precise Mechanical Design] - Vacuum / Deposition / Plasma Application Technology (PVD, CVD, ALD, High-Vacuum System, Plasma Application/Surface Treatment, OLED Devotion/Encapsulation) - Laser Application Technology(Laser Processing, Laser Optics - Scanner/Optic Design/Opto-mechanical Design, Control, Image/Vision Processing) - Thermal Process Technology[Thermal/Flow Analysis, Low Heat Treatment Technology] - New Material Processing(ALD/ALE, DSA, NIL, PLD, EHD, Surface Treatment, Roll to Roll) - Device Fabrication(OLED, Semiconductor/FPD, Secondary Battery, Sensor) - New Material Application(Graphene/CNT, Thermoelectric Device) 	Electrical / Electronic Engineering Mechanical Engineering Material Science Engineering Polymer / Chemistry / Metal / Optics / Physics / Power Electronics
	<ul style="list-style-type: none"> ■ Inspection & Control Systems <ul style="list-style-type: none"> - Machine Vision / Image processing / Pattern recognition / Image optics / 3D measurement - Electrical inspection / Sensor application / Inkjet printing - Wireless measurement / Digital signal inspection / Power control / Embedded system 	Mechanical Engineering Electrical Electronic Engineering Computer Science Engineering Power Electronics Optics / Photonics
	<ul style="list-style-type: none"> ■ Production Base Technology <ul style="list-style-type: none"> - Structural/Thermal Analysis & Optimization Design / Fluid/Thermal Analysis & Design / NVH(Noise, Vibration & Harshness) - Design Automation & Validation / Prognostic Health Management(PHM) / Data Analytics(Big Data & Analysis) - Electronic Packaging Technology[Micro Bonding, 3D/Cavity Packaging, High Power Packaging] - Circuit Design[High Speed Signal PCB, Power Circuit] / EMC / Thermal / Reliability (RF/ Antenna, Thermal Design/Material) - Particle Control / Production Environment Design[Clean Room, Mini Environment, Air Flow Simulation etc.] / Aerosol Control Technology - Welding[Ultrasound/Brazing, Dissimilar/Non-Ferrous] / Casting / Diecasting[Thin-Wall, HVDC, Simulation] / Metal Forming[Bulk, Sheet] - Mechanical Machining[Cutting, Polishing] / Molding[Process, Composite materials] / Printing[Gravure, Offset, UV] / Spray Coating[Paint/Protect Formulation] - Plastic Material[High Rigidity, High Hard, Light Weight] & Composite Materials(CFRP, Transparent, Transparency GFRP) Development/Application - Glass Forming / Glass Strengthening / Ceramic & Ceramic Spray 	Mechanical Engineering Electrical / Electronic Engineering Material Science Engineering Polymer / Ceramic / Chemical Engineering
	<ul style="list-style-type: none"> ■ Production System Engineering <ul style="list-style-type: none"> - Production System[Manufacturing Process, Line, Factory] Design & Verification[Simulation, Virtual Tech] - Production & Operation Management[Rule, Process] / Optimization of Supply Chain Design & Production Planning - Roadmap for Production System Set-up & Operations Strategy - Product Architecture[Platform, Module] Planning & Optimization / Design Standardization / Product Development Process, Procurement Engineering - Quality Management / TRIZ - Statistical Modeling & Mining of Big Data[Product Planning, Design, Manufacturing, SCM, Sales&Marketing] - Equipment SW Architect / Big Data Analysis System Design & Development of Equipment Operations 	Industrial Engineering Management Engineering SW Engineering
Materials & Devices Advanced Research Institute	<ul style="list-style-type: none"> ■ Equipment Technical Sales <ul style="list-style-type: none"> - Technical sales of LCD/OLED / Touch / Camera Module / Battery / Solar Cell&Module - Equipment Promotion / Project management / Marketing Planning / Sales activity for B2B Customer 	Mechanical Engineering Industrial Engineering Management Engineering