

Samsung Electronics DX Division

Full-Time Opportunity for International Students

SAMSUNG

Job	Business	Location	Major
Circuit R&D	Visual Display Business, Digital Appliances Business, Mobile eXperience Business, Global Technology Research	Suwon	Electrical/Electronic Eng. or other related majors
	Mobile eXperience Business	Gumi	
Software R&D	Visual Display Business, Digital Appliances Business, Mobile eXperience Business, Global Technology Research	Suwon	Computer Science Eng., Electrical/Electronic Eng., Industrial Eng., Mechanical Eng., Statistics, Math, Physics, or other related majors
	Samsung Research	Seoul	
Mechanical R&D	Visual Display Business, Digital Appliances Business, Mobile eXperience Business, Global Technology Research	Suwon	Mechanical Eng. or other related majors
Materials R&D	Global Technology Research	Suwon	Material, Chemistry or other related majors
Marketing	Visual Display Business, Digital Appliances Business, Mobile eXperience Business	Suwon	All Majors
Global Sales	Visual Display Business, Digital Appliances Business, Mobile eXperience Business	Suwon	

Circuit R&D

Design circuits that meet the requirements and the characteristics of each product by understanding each function's HW block



Visual Display Business(Suwon) Circuit R&D

Develop the company's product circuits based on the specialized knowledge on circuit technology

Responsibilities

Display Module Design

- Design display optical system(Backlight Unit, Film)
- Design optical path, system of the various formats of light source (LED/LENS)
- Design color management(Display optics, Wide Color, Color-realization technology) design

Related Field : Optical Design, LCM/Module, Open Cell, Color Management

Related Subject : Physics, Semiconductor Eng., Electrical and Electronic Eng., Display Eng.

System Optimization Development

- Low-power design via optimization of components or between modules
- Design EMI/EMC, high-speed motion circuit

Related Field : Low-power Design, Electromagnetic Wave

Related Subject : Digital Circuit Design, Analog Circuit Design, Circuit Theory

Signal Processing

- Improve picture/sound quality via AI/differentiated algorithms
- Analyze, process, compress and transmit various formats of video/audio signals such as multi-media and broadcasting

Related Field : Video/Image Processing, Audio/Voice Processing

Related Subject : Digital Image Processing, Algorithms, Digital Signal Processing, Signals & Systems

Digital Circuit Design

- Design/verify digital circuits in accordance with the functionality based on understanding of the various products' requirements/specifications of Visual Display Business such as TV, Monitor, Signage, E-board, Sound Bar, etc.
- Design processor(AP, GPU, etc.), display, communication module(Wi-Fi/BT etc.), camera/sensor module, etc.

Related Field : Processor, Display, Communication Module, Camera/Sensor Module

Related Subject : SoC/FPGA Design, Digital Signal Processing, Digital Communication Eng., Embedded System, Digital Circuit Design, Analog Circuit Design, Circuit Theory

Visual Display Business(Suwon) Circuit R&D

Develop the company's product circuits based on the specialized knowledge on circuit technology

Requirements

- Electrical/Electronic Eng., Information Communication Eng., Control Eng., Physics, or other related majors
- Materials, Chemistry and Physics(Applied Physics-Optics, Color) or other related majors
- Having knowledge and ability related to electronic devices, electric circuits and digital circuits to understand the components and the operating theory
ex) RF Communication, Display Operating Technology, Signal Processing (Video, Audio), Radio Wave, Network, etc.

Preferences

- Experience with circuit design related tools(Oscilloscope, Spectrum Analyzer, Signal Generator, Cadence/FPGA, etc.
- Author of SCI-level papers, or patents related to the role
- Fluent foreign language ability to communicate with overseas subsidiaries
- Internal/external experiences related to the job roles
- Experience with next-generation display devices
ex) Development of Transparent, Mirror, Flexible, etc.
Development of inorganic/organic materials (Polymer, Reactive Mesogen, QD/QLED, etc.), or devices

Career Vision

- Grow as a circuit design expert with VD Biz. which has topped the world's TV market for 18 years in a row
- Experience leading development of AI-based technologies ranging from SoC chip design to algorithms for picture quality processing
- Improve competitiveness through research and development of next-generation displays, micro LED and QLED products

Digital Appliances Business(Suwon) Circuit R&D

Research, design and optimize the circuit components required in building the system of various digital appliance products with the expertise in electrical/electronic circuits

Responsibilities

System Optimization Design

- Design and optimize the circuit system for various digital appliance products, fulfilling product's required specifications and performance standards
- Develop safer and more energy-efficient analog & digital circuits
- Research robust design technologies regarding electromagnetic interference and susceptibility, high-speed signal and power quality

Related Field : Electrical/Electronic Engineering, Signal and System, Power, Interface between Active and Passive Devices, EMI, Circuit PCB Design, Circuit Design Review, etc.

Digital/Low voltage Circuit Design

- Design and verify the MCU peripheral circuits(Open Drain, Buffer, Filter)
- Design digital modules such as processor(AP/NPU), display, wireless communication(Wi-Fi/BT), sensor and camera
- Develop SoC Application and system structure, specifically for AI home appliances

Related Field : Electronic/Electrical Engineering, Signal and System, Processor, Display, Camera, Sensor, Communication Modules, Antenna, Audio, etc.

Analog/Power Electronics (Operation & Control)

- Design inverters, SMPS, batteries, and adapters by optimizing power conversion control devices applied to household appliances
- Develop inverter control algorithms, motor drive control algorithms, and BMS (Battery Management System) to improve product efficiency and performance

Related Field : Inverter, Converter, SMPS, Battery, Power Adapter, Motor Control, etc.

Digital Appliances Business(Suwon) Circuit R&D

Research, design and optimize the circuit components required in building the system of various digital appliance products with the expertise in electrical/electronic circuits

Requirements

- Electrical/Electronic Engineering, Power electronics, Control and Measurements, or other related majors
- Knowledge and ability related to electronic devices, electric circuits and circuits to understand the components and the operating theory

Preferences

- Experience with circuit design related tools (Oscilloscope, Spectrum Analyzer, Signal Generator, Mentor/Cadence/SPICE/FPGA, etc.)
- Author of SCI-level papers, or patents related to the role
- Fluent foreign language ability to communicate with overseas subsidiaries
- Extracurricular experiences related to the role

Career Vision

- Develop career as a hardware expert who develops digital circuits, RF systems, power circuits, and PCB designs for each household appliance
- Develop career as a system process engineer who designs an optimal system considering the functions, performance, power consumption and cost of AI home appliances
- Contribute to develop and optimize hardware performance verification and process verification environments based on experience and expertise

Mobile eXperience Business(Suwon/Gumi) Circuit R&D

Understand product requirements, characteristics of HW Block and Interface/Layout etc., and optimize/design/realize necessary elements of circuit for system organization

Responsibilities

Digital Circuit Design

- Develop the digital circuits optimized for MX Business's devices characteristics
- System design and verification considering various factors (function, performance, power consumption, cost, etc.)
- Collaborate with global enterprises and establishment of various HW portfolios for users
- Design guide for describing system, circuit diagram, algorithm and performance
- Execute reliability test and HW performances

Related Field: Electric/Electronic circuit design, Signal Processing, Power, System, etc.

RF Circuit Design

- Advance research of RF/Connectivity and commercialization of next-generation communication terminals include 5G optimization
- RF system design(Low cost, High efficiency, Excellent performances)
- Performance optimization based on RF System and customized IC design
- Design the standard of RF system satisfying the consideration of country-specific communication, environment, safety, etc.

Related Field : 5G, RF, mmWave, Antenna, Wi-Fi, BT, NFC, GPS, etc.

Parts and System Design

- Development and commercialization of MX Business's device parts and systems
- Secure the best battery life through low-power design of parts and systems
- Secure parts expertise and advanced performances

Related Field : Audio, Power, Antenna, AP, Display, Camera Battery, etc.

Requirements

- Electrical/Electronic Engineering, or other related majors
- Knowledge and ability related to electronic devices, electric circuits and digital circuits to understand the components and the operating theory

Preferences

- Experience with circuit design related
- Author of SCI-level papers, or patents related to the role
- Fluent foreign language ability to communicate with overseas subsidiaries
- Internal/external experiences relate to the job roles

Career Vision

- Develop career as circuit expert of MX Business, which leads the global smartphone market
- Experience everything from chip design to large-scale system design, from prior development to commercialization
- Contribute to improving competitiveness through circuit design of future market-leading strategic/next-generation products

Global Technology Research(Suwon)

Circuit R&D

Design and verify high-speed signals, power, wireless communication, automation equipment circuits/electronics for HW performance differentiation and automation processes

Responsibilities

Automation of electromagnetic/circuit design and verification

- Develop design efficiency programs for electromagnetic wave and circuit design and PBA process based on various design rules / checklists
- Develop automation technology for wiring design of highly integrated PCB circuits
- Analyze Big Data such as electromagnetic/circuit design drawings, CAD, design history, and failure cases and develop pre-detection algorithms to prevent recurrence of failure

Related Field : Circuit Diagrams, Circuit CAD, C (C#, C++) Programming, SI, PI, Big Data Analysis, AI

Related Subject : Circuit Theory, Electronic Circuits, C Programming, Electromagnetics, Big Data

Digital/embedded circuit and HW system development

- Develop industrial robot controller UI/UX and robot application solution SW to lead future manufacturing
- Develop wired/wireless digital/embedded circuit systems with high-density/high-performance within and between products
- Develop wired/wireless circuits and systems for inspection/instrumentation
- Review power and signal optimization of systems and design/develop related circuits and components
- Develop robust design techniques for circuits, HW systems by EMC analysis

Related Field : MCU-based circuit design, ARM/x86-based development, PCB design/analysis, Power conversion, RF circuits, C Programming etc.

Related Subject : Telecommunications Engineering, Power Electronics, Radio Frequency Engineering, Antenna Theory, Wireless Communications, Microwave Circuitry

High-speed signal/power and RF circuit

- Develop circuit measurement/analysis verification and optimal design technologies to secure consumer quality and reliability of new strategic products
- Develop core technologies for stability of high-speed signal/RF circuits, simplification of noise interference and cable/connector components cost competitiveness, and performance differentiation

Related Field : High Frequency Signal Integrity, RF/Digital Circuit Design, Electrostatic Discharge, EM wave

Related Subject : Circuit Theory, Electromagnetics, Microwave Engineering, Electronic Circuits, Signal Processing Theory, Power Electronics

Global Technology Research(Suwon) Circuit R&D

Design and verify high-speed signals, power, wireless communication, automation equipment circuits/electronics for HW performance differentiation and automation processes

Responsibilities

Circuit/electrical design of robotics/automation equipment

- Design and verify the circuit of robot controller/teaching pendant/application system
- Design and verify the motor control circuits for robot drive.
- Design/Operate automation control system
- Analyze user requirements to plan automation concept and develop facility electrical H/W structure design
- Design automation equipment electronics in detail (power supply, circuit configuration, etc.) and implement automation equipment control PLC program

Related Field : Circuit Design, PCB Artwork, SI/PI/EMI Analysis, Electrical Design, Power Conversion, PLC Control, C

Related Subject : Circuit Theory, Power Engineering, Electrical Machines, Control Engineering, Robotics, Electromagnetics, Electromagnetic Interference & Compatibility (EMI/EMC) Engineering, C Programming

Requirements

- Degree in a related field such as electrical and electronics
- Knowledge of electronics and ability to design electrical/electronic and digital/analog circuits

Preferences

- Applicants who possess the ability to use tools related to circuit/electromagnetic/RF development (SPICE Simulation, CST MWS, HFSS, etc.)
- Applicants with experience in utilizing PCB design Tool
- Applicants who possess 2D CAD (Harness, C-Box), C language & FPGA language competency related to circuit/system design
- Applicants who have a history of performing various internal and external activities and projects related to the job

Career Vision

- You will become an H/W circuit design/analysis expert with part-to-set end-to-end solution experience
- You will become a world-class signal/power, antenna/RF, EMC, and design verification technology evaluation and service expert
- You will become an expert in control/electronics for the realization of future robotics and automation equipment

Software R&D

Develop software and solutions and implement in products so that users can easily and conveniently use services



Develop SW Platform based technology and system needed for our product such as TV, Smart Monitor based on expertise of computer programming and SW technology

Responsibilities

Platform and System SW Development

- Pilot study and product development related to Compiler such as Linux OS, GCC, LLVM etc.
- Pilot study and product development related to distributed computing such as NFT, IoT, Edge
- Pilot study and product development related to various tool for development productivity improvement and process automation
- Introduction of new open source and maintenance(including Contribution and Maintainer activity)
- Product development related to Drive and Framework to control multiple devices such as Camera
- Pilot study and product development related to platform such as Tizen, Android
- Pilot study and product development about new graphic algorithm development and Avatar, Metaverse
- Pilot study and product development related to various type of multimedia, Game, Streaming
- Pilot study and product development related to Web 3.0, WebRTC, Browser etc.
- Pilot study and product development related to various wire-based/wireless network communication such as Wi-Fi 6, Bluetooth etc.
- System SW development to operate smart display equipment

Operating System Development and Security Control

- Development of Kernel and Device Driver
- Optimization of product memory and performance
- User experience improvement
- Technical and systematic security inspection, vulnerability analysis, and patch installation
- Operation of security control about Back-end server and dealing with security incidents

Related Field : System SW, Linux OS, GCC/LLVM Compiler, Tools, Platform SW, Framework, Web Platform, Graphic Algorithm, Open Source, Network/Communication, Distributed Computing, Tool, Metaverse, Avatar, Web 3.0, App Development, Code, Network Security, DRM, Blockchain, NFT, Security Analysis, White Hacking, etc.

Develop SW Platform based technology and system needed for our product such as TV, Smart Monitor based on expertise of computer programming and SW technology

Requirements

- Understanding programming languages(C, C++, Java, etc.), and having problem solving skills of algorithm
- Capability of understanding requirements, designing and implementing software accordingly
- Computer Science/Eng., Electrical/Electronic Eng., Industrial Eng., Mechanical Eng., Mathematics, Statistics, Physics, or other related majors

Preferences

- Internal/external experiences related to the job roles
- Foreign language ability to have simple communication with global employees
- Author of dissertation or patents, or presentation experience related to the job roles

Career Vision

- Develop career as an expert of system SW such as Linux OS, Compiler, Tool, Kernel, Operating system and leading global technology
- Develop career as an expert of platform element technology such as graphic, network, multimedia, web and leading platform development
- Cooperating with global open source developers and contributing to open source development

Develop IoT application service needed for our product such as TV, Smart Monitor, based on expertise of computer programming

Responsibilities

IoT SW Development

- Develop application service linked with IoT Hub and 3rd Party IoT Eco System based on SmartThings Eco System
- Develop TV application service and IoT Protocol Application such as MATTER/MQTT

Related Field : SW Framework Development, IoT Application Development, Network Protocol Standard etc.

Connectivity SW Development

- Develop software related to wireless communication technology such as Wi-Fi , Bluetooth, NFC, UWB etc.
- Develop device control function and audio streaming technology based on wireless communication
- Develop application function of mobile and short distance communication technology

Related Field : System SW, Linux, Network, Wireless Communication Technology etc.

Service Client Development

- Develop TV service application such as TV Plus, Samsung Health, Gaming Hub, Watch Together, App Store
- Develop recommendation and search service related to broadcast/channel/OTT content and front-end application and common framework

Related Field : Linux, Platform SW, Framework, Web Platform, Application and Application FW development, etc.

Service Server Development

- Develop server of Smart TV Service
- Develop platform of App Eco(Seller, Diamond, App Store), account, billing, NFT marketplace
- Design and operate AWS/Azure/GCP infrastructure and develop multiple automation tool to operate Smart TV system

Related Field : Infrastructure design and server operation such as AWS/Azure/GCP, Database design, Server architecture design, etc.

Develop IoT application service needed for our product such as TV, Smart Monitor, based on expertise of computer programming

Requirements

- Understanding programming languages(C, C++, Java, etc.), and having problem solving skills of algorithm
- Capability of understanding requirements, designing and implementing software accordingly
- Computer Science/Eng., Electrical/Electronic Eng., Industrial Eng., Mechanical Eng., Mathematics, Statistics, Physics, or other related majors

Preferences

- Internal/external experiences related to the job roles
- Foreign language ability to have simple communication with global employees
- Author of dissertation or patents, or presentation experience related to the job roles

Career Vision

- Develop career as an expert with IoT and communication ability beyond TV product
- Develop career as a future SW architect by strengthening capability of designing and developing, through cooperation with various types of external developers
- Experience wide range of development, from Driver, Stack to Application

Visual Display Business(Suwon)

Software R&D | Artificial Intelligence SW

Develop AI based technology which can be applied to our business and apply to our product based on expertise of computer programming and SW technology

Responsibilities

Artificial Intelligence SW

- Pilot study and product development of Framework to provide various AI solutions
- Pilot study and product development related to element technology for diverse AI services
- Research and development for AI based on Machine Learning which can experience and learn itself to detect SW error

Related Field : Machine Learning, Deep Learning, Voice/Natural Language Processing, Image recognition, Object recognition, etc.

Related Subject : Artificial Intelligence, Computer Vision, Big Data, Probability and Statistics, Algorithms, Linear Algebra, Voice Recognition, Image Tracking, etc.

Requirements

- Development of AI application/solution using camera such as Samsung Health/Auto Zoom/Metaverse
- Having interest in Multimedia and AI field
- Understanding programming languages(C, C++, Java, etc.), and having problem solving skills of algorithm
- Basic knowledge of Deep Learning and having related project experience

Preferences

- Internal/external experiences related to the job roles
- Ability of foreign language to have simple communication with global employees
- Author of dissertation or patents, or presentation experience related to the job roles

Career Vision

- Provide innovative experience and service to consumers by introducing AI technology from devices to servers
- Enhance consumers' satisfaction and by fusing diverse HW and new AI technology
- Develop career as an expert who, with leading technology in global AI-based testing, applies skills in various fields and solves issues

Digital Appliances Business(Suwon)

Software R&D | System SW

Develop Core Framework/Platform of smart home appliances and design software such as driver, compiler and firmware to use the hardware efficiently

Responsibilities

Middleware SW

- Develop framework such as User Interface, Network, Connectivity, and Service Framework
- Develop and operate common platform solutions for data modeling/analysis/prediction software development

Related Field : Control Protocol, Server SW Platform, IoT Communication Protocol, Cloud/Big Data Engineering etc.

Related Subject : Database Design, Computer and System Structure, Virtual Network, IoT/Sensor Network etc.

System SW

- Develop software such as drivers, compilers, firmware, etc. to efficiently use hardware functions and perform specific purposes through device control

Related Field : Linux Kernel and Device Driver, Tizen System Framework, Wi-Fi and Bluetooth Device Driver, Stack and Communication Program, etc.

Related Subject : Embedded System, Operating System, Computer Structure, Network, Wireless Communication(Signal Processing), Compiler Design, Robot Engineering, etc.

Requirements

- Computer Science/Engineering, Control and Measurements/System, Robot Engineering, Physics, Mathematics or other related majors
- Understanding programming languages(C, C++, Java, etc.), and algorithm problem solving skill
- Capability to understand requirements, and design/implement software accordingly

Preferences

- Ability to perform projects utilizing software/hardware platforms (Embedded system, Telecomm./Network system, etc.)
- Experience developing Linux-based embedded systems(BSP Porting, Kernel Driver, etc.)
- Fluent foreign language ability to communicate with overseas subsidiaries

Career Vision

- Develop career as a SW developer who leads the smart home appliance market and global innovation
- Develop career as a T-shaped person with experience in a variety of SW development from firmware for product control to network and server development

Developing various applications and mobile apps on the screens of home appliances

Responsibilities

LCD Service

- Develop applications and services for home appliances with Tizen-based LCDs
- Develop service applications for third-party integration services(Ring Door bell, etc.)
- Develop MDE(Multi Device Experience) services that connect home appliances, TV and mobile
- Develop Generative AI-based image generation and Style Transfer functions installed on LCDs of home appliances

Related Field : Web Services, App Architecture Design, Cross Platform, App Framework, Web Frontend, Native Application

Related Subject : Application Development, Web System Design, Software Engineering, System Programming, Embedded Software Programming, Operating Systems

Application SW

- Develop smart services linked to home appliances IoT control and products in Android/iOS, etc.
- Develop SmartThings services such as cooking, clothing and home care, etc.
- Develop robot vacuum-based in-home map function

Related Field : Applications in Home Appliances, Mobile Apps, Web Service Development, etc.

Related Subject : Operating Systems, Mobile Programming, SW Architecture, Embedded System, Graphics, Distributed Algorithms, Web/App Application Development, etc.

Security SW

- Develop and assess product protection technology for Smart Home/IoT security
- Develop software that supports a reliable execution environment to ensure the normal operation of the system and secure crucial information
- Monitor the security of cloud infrastructure and establish/operate security policies

Related Field : Security Audit, PenTest, System Security, Cloud Service Security, Data Privacy Engineering, etc.

Related Subject : System Security, Cryptology, Network Security, etc.

Developing various applications and mobile apps on the screens of home appliances

Requirements

- Computer Science/Engineering, Control and Measurements/System, Robot Engineering, Physics, Mathematics or other related majors
- Understanding programming languages(C, C++, Java, etc.), and algorithm problem solving skill
- Capability to understand requirements, and design/implement software accordingly

Preferences

- Ability to develop web application(JavaScript, TypeScript, HTML, CSS)
- Ability to develop Native Application(C/C++, C#)
- Ability to develop Android, iOS, mobile app and Frontend
- Experience of developing signal processing code(C, C++, Python, etc.)
- Capability to carry out projects using web service framework(Spring, Django, Angular, etc.)
- Author of SCI-level papers, or patents related to the role, extracurricular experiences related to the role(Nation-wide Information Protection/Mock Hacking Contest-award winner, Open Source projects, etc.)
- Fluent foreign language ability to communicate with overseas subsidiaries
- Security capabilities such as Secure OS, Trusted Application, etc.
- Knowledge of basic security domains (cryptography, network/system/web security, etc.)

Career Vision

- Develop career as a SW developer who leads the smart home appliance market and global innovation
- Be equipped with global experiences by handling various IoT protocols and global regulations and cooperating with a number of international developers

Digital Appliances Business(Suwon)

Software R&D | Artificial Intelligence SW

Design intelligent home appliance solutions and develop technologies that can ensure product operation and secure protection by utilizing expertise in software technology on our home appliance products

Responsibilities

Vision AI

- Develop Vision AI recognition models using deep learning
- Develop solutions such as food recognition for refrigerator, object recognition for robot vacuum cleaner, and food recognition for oven cooking
- Develop technology for lightweight AI models for on-device application
- Develop product-specific model generation, using generative AI technology

Related Field : Computer Vision, Machine Learning, Deep Learning

Related Subject : Probability and Statistics, Linear Algebra, Machine Learning, Computer Vision, Image Processing, Signal Processing, Computer Programming

Voice recognition

- Develop preprocessing/Wake up/ASR(voice → text conversion) models for Bixby voice recognition
- Develop natural language processing, conversation system technologies for Bixby, and develop voice services for home appliance device/service integration
- Develop Bixby voice recognition Client based on Tizen/Tizen Lite
- Develop AI model optimization/lightweighting technologies for on-device application

Related Field : Voice preprocessing, Voice recognition, Speaker recognition, natural language processing, Machine Learning, Deep Learning

Related Subject : Probability and Statistics, Linear algebra, Machine Learning, Signal processing, Natural language processing, Computer programming, etc.

Data Intelligence

- Develop personalized recommendation systems by analysing product usage data
- Build ML pipelines for processing big data and develop cloud service systems
- Discover new services and product usability improvements by analysing IoT and usage data
- Develop AI models for diagnosing faults and non-faults through the sensors of home appliances

Related Field : Big Data Analysis, Cloud Distributed Processing, Machine Learning, Deep Learning, Cloud Server Development

Related Subject : Probability and Statistics, Linear Algebra, Databases, Data Mining, Computer Programming

IoT/Cloud

- Discover new services for home appliances with SmartThings and develop cloud server systems
- Develop IoT protocol conversion for querying and controlling the status of SmartThings apps
- Build and operate a Cloud Governance system

Related Field : AWS Cloud Server Development, Infra Management, Restful API

Related Subject : Computer Programming, Data Structures, Algorithms, Databases, Internet Security

Digital Appliances Business(Suwon) Software R&D | Artificial Intelligence SW

Design intelligent home appliance solutions and develop technologies that can ensure product operation and secure protection by employing expertise in software technology on our home appliance products

Requirements

- Computer Science/Engineering, Control and Measurements/System, Robot Engineering, Physics, Mathematics or other related majors
- Understanding programming languages(C, C++, Java, etc.), and algorithm problem solving skill
- Capability to understand requirements, and design/implement software accordingly

Preferences

- AI framework experience such as Vision Library(OpenCV), Tensorflow/PyTorch
- Ability to build RESTful APIs for Vision AI models and develop AWS server systems
- Experience developing machine learning, data analysis and data mining
- Experience of modeling voice recognition engines and platform(noise cancellation, Voice Activity Detection, etc.)
- Server backend knowledge and development experience((Java, Spring Framework)
- Experience developing AWS cloud (API G/W, DevOps, AWS SQS, RESTful API, etc.)
- Author of SCI-level papers, or patents related to the role, extracurricular experiences related to the role(Nation-wide competition award winner, Open Source projects, etc.)
- Fluent foreign language ability to communicate with overseas subsidiaries

Career Vision

- Develop career as a SW developer who leads the smart home appliance market and global innovation
- Propose new paradigm of home appliances via next-generation products with IoT, AI, and Big Data Technology

Mobile eXperience Business(Suwon) Software R&D | Artificial Intelligence SW

Provide new experiences and changing the user's life, through developing innovative software on various devices of Mobile eXperience Business

Responsibilities

System SW

- Increase user experience by developing and optimizing system SW of MX Business's mobile devices
- Embedded system SW, device driver and kernel programming by product line
- Optimize performance and develop solution using big data and development of various systems

Related Field : Android, Kernel, Embedded, OS, Device Driver, Firmware, Big Data, etc.

5G & Protocol

- Develop and improve quality of communication protocol of MX Business's mobile devices
- Design and R&D of 5G and next generation communication technologies
- R&D and improve the quality of voice and video call using machine learning
- R&D on new user experience service platforms using sensors and multiple signals

Related Field : Android, 5G, Data Network, Network, Signal Processing, RF, Machine Learning, etc.

Security

- Development/Commercialization of information sharing and enhancement of security for connected devices based on private blockchain in a multi-device environment
- Development/Commercialization of machine learning technology that operates in a private computing environment within the terminal
- Detection and blocking of threats based on user behavior for major services

Related Field : Network Security, Password, Mobile Security, Block Chain, etc.

Requirements

- Computer Science, Electrical/Electronic Eng., Industrial Eng., Mechanical Eng., Math, Statistics, Physics, or other related majors
- Understanding programming languages(C/C++/Java, etc.), and Ability to understand embedded system(Android, Linux, etc.)

Preferences

- Internal/External experiences related to the job roles, such as SW application development and launch
- Ability to perform projects utilizing software/hardware platforms
- Fluent foreign language ability to communicate with overseas subsidiaries

Career Vision

- Develop career as the best SW specialist through developing SW which delivers new value and experience to Galaxy users
- Various SW development experiences (System, Framework, Machine Learning, Big Data, etc.)

Provide new experiences and changing the user's life, through developing innovative software on various devices of Mobile eXperience Business

Responsibilities

Camera & Vision

- R&D and improve picture and video quality and related algorithms of MX Business's mobile devices
- Develop differentiated camera SW by product line and AR solution and service
- Develop quality implementation and vision solution using deep learning

Related Field : Image Processing, Computer Vision, AR, VR, Deep learning, Signal Processing, etc.

Framework

- Develop framework connecting HW and SW for maximizing user convenience
- Develop multimedia, web, audio and One UI(User Interface) library and differentiated user-specific functions
- Develop communication services(Call, SMS, VoLTE, Data network) library
- Support and develop partner services for Samsung Electronics, and provide a platform for user's needs

Related Field : Android, Android Framework, Web, Audio, SDK, Refactoring, etc.

Application

- Develop and improve performance of applications on MX Business's mobile devices
- Provide user new experience through implementing application program on various platform
- Develop application for smartphones and wearables in various environments such as Android, Tizen, Windows, Linux, etc.
- Develop differentiated user interaction by product line

Related Field : Android, Application, OS, API, SDK, Interaction, etc.

Requirements

- Computer Science, Electrical/Electronic Eng., Industrial Eng., Mechanical Eng., Math, Statistics, Physics, or other related majors
- Understanding programming languages(C/C++/Java, etc.), and Ability to understand embedded system(Android, Linux, etc.)

Preferences

- Internal/External experiences related to the job roles, such as SW application development and launch
- Ability to perform projects utilizing software/hardware platforms
- Fluent foreign language ability to communicate with overseas subsidiaries

Career Vision

- Develop career as the best SW specialist through developing SW which delivers new value and experience to Galaxy users
- Various SW development experiences (Framework, Application, Machine Learning, etc.)

Mobile eXperience Business(Suwon) Software R&D | Artificial Intelligence SW

Provide new experiences and changing the user's life, through developing innovative software on various devices of Mobile eXperience Business

Responsibilities

Image Processing/ Computer Vision

- Research and develop the image processing technology with deep learning and machine learning
- Focus on image processing solution which is applicable to Galaxy devices such as improving low light and AI upscale

Related Field : Image Processing, Computer Vision, AR, Deep Learning, signal Processing, etc.

Natural Language

- Develop Bixby functions based on Bixby client and LLM, and Research NLP generation control based on generative AI
- R&D on Bixby service such as voice recognition, composition, and merchandising
- Develop Bixby home intelligence platform linked to Bixby and all products in DX division
- Analyze and manage all user's data and infra maintenance on Bixby service

Related Field : Deep Learning, Machine Learning, LLM, Natural Language Processing, Image Processing, Object Recognition, Vision, etc.

Intelligence AI

- Provide new experiences to all Galaxy users as combining generative AI with Framework Products such as keyboard, lock screen, and home screen
- Focus on AI model skills which are applicable to One UI Framework
- R&D on preceding products, App service and implementation of commercialization

Related Field : Generative AI, Framework, Deep Learning, etc.

Requirements

- Computer Science, Electrical/Electronic Eng., Industrial Eng., Mechanical Eng., Math, Statistics, Physics, or other related majors
- Understanding programming languages(C/C++/Java, etc.), and Ability to understand embedded system(Android, Linux, etc.)

Preferences

- Internal/External experiences related to the job roles, such as AI model development and launch
- Ability to perform projects utilizing software/hardware platforms
- Fluent foreign language ability to communicate with overseas subsidiaries

Career Vision

- Develop career as the best SW specialist through developing SW which delivers new value and experience to Galaxy users
- Various SW development experiences(Deep Learning, Machine Learning, Big Data, etc.)

Create new innovation by adopting cutting-edge technologies to products of DX Division leveraging knowledge in Artificial Intelligence and SW problem-solving skills

Responsibilities

AI Model

- Research generative AI models to improve usability and productivity of DX products
- Research architecture design, training methodologies, and use cases of LLM
- Research image/video generation and editing techniques using LVM
- Research multimodal AI technologies that connect various modalities (text, speech, video)

AI Productivity

- Research foundational technologies to enhance usability of generative AI models
- Research applied technologies that can improve productivity by utilizing LLM
- Research multimodal AI that can recognize/understand/utilize various contents
- Research and develop Agentic AI technologies that can increase work productivity

AI System

- Research model optimization and lightweight algorithms to deploy AI services on-device
- Research solutions to provide personalized services utilizing generative AI models
- Research full-stack SW for efficient on-device inference/training of generative AI, DL models
- Develop MLOps to automate training/evaluation/deployment of AI models

Related Field : AI/ML, Generative AI, Deep Learning Model Optimization, Hardware Acceleration, Image/Video Processing, Natural Language Processing

Related Subject : Machine Learning, Deep Learning, Reinforcement Learning, Linear Algebra, Probability/Statistics, Data Structure, Algorithm, Computer Programming, etc.

Requirements

- Major in CS, EE, industrial engineering, mathematics, statistics and other related fields
- Those with basic knowledge of artificial intelligence and have interest in related fields

Preferences

- Have experience in implementation and application of latest or well-known AI models
- Have experience in implementation of apps or solutions utilizing AI models
- Those who have done projects utilizing AI frameworks(eg. Pytorch, Tensorflow, etc.)

Career Vision

- Can become an AI specialist experienced in deploying AI to various products and services
- Can experience wide range of AI research from AI core technologies to on-device applications

Create new innovation by adopting cutting-edge technologies to products of DX Division leveraging knowledge in software, problem-solving skills and analytical creative thinking

Responsibilities

Platform

- Develop core platform technologies and frameworks for apps and services of Samsung devices
- Develop Tizen opensource operating system and develop kernel, system and frameworks such as UI, network, web/app for Tizen devices
- Develop core connectivity technologies and related application and services
- Develop cross-platform web engine/plugin/framework/service for Tizen devices

Software Engineering

- Provide automated code review/analysis and personalized SW development tools and services
- Research technologies for generating test cases using AI and App verification automation
- Establish company-wide code development infrastructure, culture, systems, and innovate SW quality verification processes.
- Develop MLOps that automate training, evaluation, and deployment of AI Agents

Security

- Research ways to safely use Generative AI technologies
- Research technologies to safely protect device users and data, and minimize privacy risks
- Design and develop security system technologies to protect products and services

Related Field : Operating System, Computer Network, Software Engineering, Security, AI/ML

Related Subject : Data Structure, Algorithm, Computer Architecture, Web/System Programming, Computer Security, Artificial Intelligence, etc.

Requirements

- Major in CS, EE, industrial engineering, mathematics, statistics and other related fields
- Those with understanding of programming languages (C/C++/.NET(C#)/Javascript/Python/Java/Kotlin etc.) and have development experiences

Preferences

- Experience in developing any specific SW system or service applications
- Experience in web, system, or service application development projects
- Experience in low-level system development such as Linux kernel and Android system
- Experience in developing bare metal sever, cloud, server virtualization and related fields

Career Vision

- Can become SW engineer with experience in developing SW solutions for various platforms
- Can experience wide range of research and development topics such as AI solutions, security systems and device platform

Global Technology Research(Suwon) Software R&D

Develop software optimized for automation facilities such as equipment/AI inspection/unmanned mobile robot and provide innovative SW solutions to build a smart factory

Responsibilities

AI / Machine Learning

- Develop defect detection techniques by collecting and algorithmically processing large amounts of inspected/measured manufacturing data
- Develop algorithms that reduce unnecessary complexity and enhance performance by reflecting the characteristics of the collected data
- Develop and validate optimal performance models by investigating and researching deep learning technologies in the image/text field
- Develop MLOps-based AI system and establish automated pipeline through performance analysis

Related Field : Computer Vision, Deep Learning, Machine Vision, AI

Related Subject : Computer Engineering, Image Processing, Data Science, AI

Robot / Automation Control SW

- Develop industrial robot controller UI/UX and robot application solution SW to lead future manufacturing
- Develop image processing and AI utilization technologies for robot motion generation
- Develop object position recognition technology through image processing of 2D/3D images

Related Field : Industrial Robot UI/UX, Robot Simulation, Control & Automation, Automation System, Video/Image Processing

Related Subject : Algorithms, AI, Data Structures, Data Communication, Linear Algebra, Robotics, Computer Graphics

Autonomous Driving / Logistics Control SW

- Conduct advanced research and development on autonomous path planning, motion control, location recognition, and real-time situation judgment technologies for mobile robots
- Develop real-time remote control (monitoring/route management/traffic control), scheduling, and simulation-based optimization models for mobile robots through AI
- Develop systems for logistics and material storage/supply automation, and simulation technologies using digital twins

Related Field : Computer Vision, Deep Learning, Machine Vision, AI

Related Subject : Robotics, Computer Vision, Statistics, Algorithms, Linear Algebra, Networking, Web Programming

Global Technology Research(Suwon) Software R&D

Develop software optimized for automation facilities such as equipment/AI inspection/unmanned mobile robot and provide innovative SW solutions to build a smart factory

Responsibilities

Digital Twin / Big Data / Industrial IoT(IIoT)

- Drive process optimization and operational efficiency by digitizing various information on the manufacturing site and visualizing it in real time based on 3D
- Utilize VR/AR/MR technologies to implement digital sites and develop interaction technologies
- Develop AI methodologies (analysis/prediction/control/optimization), process simulation, and technologies that link the two
- Use generative AI to develop technologies for contextualized action guide suggestions and report automation

Related Field : Digital Twin, Smart Factory, 3D, Unity, AR/VR/MR, Simulation, Generative AI, C#, R, Java.

Related Subject : Computer Graphics, Algorithms, Discrete Mathematics, Artificial Intelligence, Database Management Systems, Networking, C#, R, Java Programming

Requirements

- Understanding and troubleshooting skills in programming languages (C, C++, Python, etc.), OS, and web UI
- Related majors in computing/computer science, industrial engineering, electrical/electronics, mechanical, math, statistics, physics, etc.
- Experience in deep learning or computer vision projects

Preferences

- Applicants who have the ability to carry out projects utilizing SW and HW platforms
- Applicants who have the ability to communicate with overseas subsidiaries
- Applicants who are proficient in software architecture analysis and design

Career Vision

- Strengthen your SW design and development capabilities and grow as an expert through experience in SW development of industrial robots
- Become an expert who can apply vision technology and next-generation AI technology
- Become a Data Scientist with experience in collecting and analyzing data for global manufacturing subsidiaries
- Become an expert in SW Architecture to design the structure of the manufacturing system of a global manufacturing corporation

Mechanical R&D

Design models suitable for the required function/performance of products analysis and resolution of problems



Visual Display Business(Suwon)

Mechanical R&D

Realizing design models suitable for required functions and performance for our display product including TV, Monitor based on knowledge of mechanical structure and element design

Responsibilities

Mechanical Design

- Realize interior/exterior design of products such as TV, Monitor, Signage, E-board, Sound Bar etc. via optimal mechanical designing
- Design and develop the front and rear exterior components of display products
- Design Optical components(Lens, Light Guide Panel/Component), light source(LED), Panel BLU(Back Light Unit), etc.
- Analysis of the reliability test and result of components and products

Related Field : Actuator, Gear, Cam, Link, Hinge, Rail, Latch, Cabinet, Drawer, etc.

Related Subject : Mechanical Design, Thermodynamics, Structural Design, etc.

Mechanical Solution

- Research on optimized solution of heat dissipation performance of the various products such as TV, Signage etc. via thermal analysis
- Satisfaction of reliability and design review of the rigid member via extreme condition simulation test, transportation environment simulation test etc.
- Design review of the rigid member for satisfying reliability of package/stand/wall-mount
- Conduct research on weight reduction and improvement of rigidity and strength via optimum structural design.(Structural Analysis)
- Develop molding technology, optimal manufacturing process
- Develop Injection mold and Press die
- Injection molding analysis, CMF development(Material development, Development of the new technologies for surface treatment)

Related Field : Fan, Heat Exchanger, Heat-sink, Duct, Distributor, Condenser, Blade, Surface Treatment, Coating/Deposition Technology, Hot Stamping, Metal, Film Steel Sheet, Resin, etc.

Related Subject : Heat Transfer, Thermodynamics, Structural Analysis, Finite Element Analysis, Mechanics of Materials, Metallic Mold Engineering, Elasticity, etc.

Visual Display Business(Suwon) Mechanical R&D

Realizing design models suitable for required functions and performance for our display product including TV, Monitor based on knowledge of mechanical structure and element design

Requirements

- Mechanical Eng., Physics, Mathematics or other related majors
- Having knowledge of mechanical design, mechanical measurement, driving and control to understand mechanical design
- Having knowledge of mechanical materials, manufacturing process for mechanical manufacturing

Preferences

- Internal/external experiences related to the job roles
ex) Experience on projects for actual product design and analysis
- Ability of designing using 3D/2D tools(NX, CATIA, UG, SolidWorks, etc.)
- Author of SCI-level papers, or patents related to the job roles
- Fluent foreign language ability to communicate with overseas subsidiaries

Career Vision

- Develop career as a mechanical R&D expert with Visual Display Business which have topped the world's TV market for 18 years in a row.
- Process development from mechanical design of TV, Monitor, Signage, LED Display products to reliability test of components and products.
- Improve competitiveness through research and development of mechanical design technology for next-generation screen

Digital Appliances Business(Suwon)

Mechanical R&D

Dynamically schematize the product's (refrigerators, washing machines, air conditioners, etc.) functions and performance, realization of design models, detailed parts to derive analysis and solutions of products and components

Responsibilities

Mechanical Design

- Design structural parts via product assembly design, structural and strength engineering, element design and utilization
- Realize manufacturing of products from the designed form by optimizing assembly, installation through 3D printing and mock-up verification/evaluation
- Design based on analysis data such as CAE, CFD, and Motion
- Create convenient customer experiences with new motion/mechanism design and smart usability

Related Field : Mechanical Engineering, Materials Engineering, Industrial Engineering, Measurement and Analysis, 3D Printing, CAD/CAM, CAE, Injection/Press Mold, etc.

Related Subject : Machine Element Design, Mechanism Design, Mechanical Drawing, Mechanics of Materials, Dynamics, Optimal Design, Structural Analysis, Mechanical Vibrations, etc.

Vibration · Noise Design

- Conduct low-vibration/noise design through structural/vibration/dynamics
- Derive vibration/noise solutions from each component unit such as motor, fan, and compressor to finished product
- Research product sophistication and affective quality through Sound Quality design
- Research fault diagnosis and prediction technology using vibration/noise big data collected throughout the product lifecycle

Related Field : Mechanical Engineering, Measurement and Analysis, CAE, Signal Processing, Rotating Machinery, Flow Noise, Artificial Intelligence, etc.

Related Subject : Mechanical Vibrations, Dynamics, Fluid Mechanics, Structural Analysis, Machine Element Design, Acoustics, Signal Processing, Automatic Control, etc.

Thermal · Fluid Design

- Design parts to realize the system algorithm and optimize the energy performance through engineering the systems based on heat transfer, cooling cycle, HVAC (Heating, Ventilating, and Air Conditioning), etc.
- Research performance improvement and flow path design based on data through CAE/CFD/Cycle
- Conduct eco-friendly research in line with international carbon neutrality policies and respond to domestic and international standards
- Research control logic and conduct experiments to secure reliability and stability of next-generation thermal/fluid technology

Related Field : Fan, Heat Exchanger, Heat-sink, Duct, Distributor, Condenser, Blade, Burner, Filter, etc.

Related Subject : Fluid-dynamics, Thermodynamics, Heat Transfer, HVAC, Flow Simulation, Automatic Control, etc.

Digital Appliances Business(Suwon) Mechanical R&D

Dynamically schematize the product's (refrigerators, washing machines, air conditioners, etc.) functions and performance, realization of design models, detailed parts to derive analysis and solutions of products and components

Responsibilities

CMF(Color, Material, Finishing)

- Develop finishing methods, novel material, surface processing methods, and molding technology to enhance the product performance and outer design

Related Field : Surface Processing, Coating/Plating Technology, Hot-stamping, Metallic Materials, Film Sheet, Resin, etc.

Related Subject : Material Science, Material Dynamics, Electrical Chemistry, Surface Engineering, Inorganic materials Engineering, Electrical Materials Engineering, Material Thermodynamics, etc.

Requirements

- Mechanical Engineering, Mechanical and Aerospace Engineering, Mechatronics, Refrigerating/Air Conditioning or other related majors
- Ability of mechanical design, thermal fluid design, measurement, operation and control to understand mechanical development
- Knowledge on mechanical materials, manufacturing methods for mechanical manufacturing

Preferences

- Ability to utilize 2D/3D design tools(NX, CATIA, UG, SolidWorks, etc.)
- Ability to design heat and fluid, structure(Fatigue, Falling), dynamics simulation related to the role (STAR-CCM+, CFX, Fluent, COMSOL, ABAQUS, Altair, LS-Dyna, RecurDyn, DAFUL, Optimization, etc.)
- Author of SCI-level papers, or patents related to the role
- Fluent foreign language ability to communicate with overseas subsidiaries
- Extracurricular experiences related to the role

Career Vision

- Develop career as an engineer with ability to design core mechanical parts to meet the mechanism, design, and performance requirements
- Experience the entire mechanical engineering process from the core part design to advanced element technology development
- Manage the overall product development and manage project progress through leadership
- Lead the trend of global home appliances market via designing of the strategic, next-generation products by cooperation with domestic and international research centers

Mobile eXperience Business(Suwon) Mechanical R&D

Through the mechanical structure / element design of various devices of MX Business, provide new experiences and change the lives of users

Responsibilities

Mechanical Designing

- Design the device mounting, structure, and elements of MX Business's products, also implement device design
- Realize designs, mount products, design structures, design and utilize elements (Based on user's experiences)
- Develop waterproof/dustproof product design and new structure
- Design package structures according to product concept, study packaging materials

Related Field: Mechanical Design, Manufacturing, Mechanic Material Development, Waterproof/Dustproof, Packaging, etc.

Mechanic based Interpretation

- Interpretation of structure, fluid and mold injection analysis of MX Business's products
- Improving drop performance

Related Field : Mechanical Design, Manufacturing, Functional Mechanic Material Development, Drop Test, etc.

CMF(Color, Material, Finishing)

- Develop polymer, metal, 3D Glass, inorganic material CMF(Color, Material, Finishing)
- Development, verification and approval of new CMF technology and materials

Related Field : Mechanical Design, Manufacturing, Functional Mechanic Material Development, etc.

Requirements

- Mechanical Engineering, or other related majors
- Knowledge on Mechanical Design, Measurement, Driving and Control to understand Mechanical Development
- Knowledge on Mechanical Materials, Manufacturing Methods for Mechanical Manufacturing

Preferences

- Experience with design tools(CAD, CAE tools - NX, SolidWorks, ANSYS, etc.)
- Author of SCI-level papers, or patents related to the role
- Fluent foreign language ability to communicate with overseas subsidiaries
- Internal/External experiences related to the job roles

Career Vision

- Experience everything from design to part reliability and mass production, from prior development to commercialization
- Contribute to improve competitiveness through design of future market-leading strategic / next-generation products

Global Technology Research(Suwon)

Mechanical R&D

Creates new value by designing mechanisms, mechanical structures, and elements required for parts of new future devices and automation/robotics facilities

Responsibilities

Mechanical Design, Analysis/Measurement, and Evaluation

- Drive process optimization and operational efficiency by digitizing various information on the manufacturing site and visualizing it in real time based on 3D
- Utilize VR/AR/MR technologies to implement digital sites and develop interaction technologies
- Develop AI methodologies (analysis/prediction/control/optimization), process simulation, and technologies that link the two
- Use generative AI to develop technologies for contextualized action guide suggestions and report automation

Related Field : Mechanical Engineering, Materials Engineering, Measurement and Analysis, Industrial Engineering, 3D Printing, Optics Engineering

Related Subject : Solid Mechanics, Dynamics, Kinematics, Mechanical Materials, Material Strength, Machine Element Design, Optimal Design, Fluid Mechanics, Machining Processes, CAD/CAM, Technical Drawing, Vibration Analysis, Physics, Optical Kinematics, Optics

Design and validate robotic mechanisms

- Design and fabricate robot drive mechanisms utilizing various mechanical devices
- Design and fabricate robot bodies optimized for robot specifications and performance
- Research and develop robot tools and other auxiliary devices suitable for the purpose of use
- Research optimal design of robot systems through analysis of structure/vibration/dynamics
- Conducts durability/reliability tests and performance evaluations for robots and major components

Related Field : Mechanical Engineering, Robotics, Materials Engineering, Measurement & Analysis, 3D Printing

Related Subject : Computer Graphics, Algorithms, Discrete Mathematics, Artificial Intelligence, Database Management Systems, Networking, C#, R, Java

Requirements

- Degree in mechanical, electrical/electronics, robotics, mechatronics, computers, etc.
- Ability to analyze robot manipulator kinematics/dynamics and implement algorithms for the functions required by the robot
- Knowledge of mechanical design, measurement, drive, and control

Preferences

- Applicants with CAD, CAE Tool (NX, SolidWorks, ANSYS, ABAQUS, etc.) skills
- Applicants with experience in sensor application technology for robots

Career Vision

- Become an engineer who develops next-generation strategic products with innovative value.
- Experience building a Smart Factory with experts in the manufacturing domain, robotics, and automation equipment

Materials R&D

Improvement of the performance and lifespan of products through the design of organic/inorganic materials and evaluation/analysis of reliability



Global Technology Research(Suwon)

Materials R&D

Design/evaluating/analyzing various materials such as polymers, high functional ceramics, electronic packaging/heat dissipation/display module materials, transparent/ultra-thin glass, and nanocomposite fusion materials required for the construction of components such as mobile devices, TVs, and home appliances

Responsibilities

Electronic Packaging / Heat Dissipation / Display Module Material Development

- Research and develop materials technologies related to electronic packaging (electrical inter-connection/heat dissipation/shielding/magnet), including material design, formulation, and physical property evaluation
- Research and development of H/W components and electronic packaging material technologies such as substrate, wiring, and component protection molding.
- Research and develop display module laminated material technologies such as OCA/PSA/PI/POL

Related Field : Mechanical Engineering, Materials Engineering, Measurement and Analysis, Industrial Engineering, 3D Printing, Optics Engineering

Related Subject : Solid Mechanics, Dynamics, Kinematics, Mechanical Materials, Material Strength, Machine Element Design, Optimal Design, Fluid Mechanics, Machining Processes, CAD/CAM, Technical Drawing, Vibration Analysis, Physics, Optical Kinematics, Optics

Polymer Material Development

- Research and develop environmentally friendly material technologies such as chemical recycling/biodegradation/eco-friendly composite solvents
- Develop UV/thermal/moisture-curable liquid adhesive materials (OCR) with high transparency, high flexibility, and high rigidity
- Research and development of external factor-sensitive smart material technologies such as Magnetorheological, Shear Thickening, Self-healing molecular design, and microstructure control

Related Fields : Polymer Synthesis/Blends/Compounding, Bioplastics, Curing Mechanism/Kinetics, Smart Materials

Related courses : Organic Chemistry, Industrial Chemistry, Thermodynamics, Fluid Mechanics, Solid Mechanics, Polymer Chemistry, Polymer Physics, Polymer Processing

Requirements

- Candidates with relevant majors such as materials (polymers, metals, inorganic, composites), chemistry/physics, chemical engineering, etc
- Candidates with relevant practical experience and expertise to understand electronics component materials and surface treatment technologies

Global Technology Research(Suwon) Materials R&D

Design/evaluating/analyzing various materials such as polymers, high functional ceramics, electronic packaging/heat dissipation/display module materials, transparent/ultra-thin glass, and nanocomposite fusion materials required for the construction of components such as mobile devices, TVs, and home appliances

Preferences

- Applicants with experience in industry-related academic assignments, academic societies, and projects related to the field of application
- Applicants who have majored in electronic packaging and have experience in conducting projects
- Applicants who possess foreign language skills to communicate with overseas research centers/corporations

Career Vision

- You will grow as a materials development expert by mastering the entire materials development process, from upfront development, validation, approval, and mass production
- You will become an expert in researching and developing new materials for the next generation of smart electronics to lead the future electronics market and provide differentiated customer experiences and services

Marketing

Deliver differentiated product value through effective communication to raise brand value based on sensing of the market



Visual Display Business(Suwon) Marketing

Deliver differentiated value to consumers through effective communication methods, to create the desired managerial goal and to raise the brand value, based on market sensing and data analysis

Responsibilities

Product Planning

- Identify opportunities and set up product strategies by analyzing market, consumer, competitor, and technology
- Plan differentiated concepts and create new product concepts that help consumer lifestyles

Product Management

- Establish corporate product portfolio and manage Product Life Cycle(PLC) based on understandings of market, consumer, competitor, and technology trends
- Establish differentiation strategy through market, consumer and competitor technology analysis

Marketing Communication

- Establish marketing communication strategies regarding brand management and launching of new products and develop marketing activities via ATL(media advertising) and BTL(other advertisements)
- Develop and execute online/digital marketing strategy and other campaigns
- Produce contents related to exhibition, promotion, launching event and video

Retail Management

- Set up effective retail-marketing strategy by developing store display guidance and display solutions when launching new product
- Cooperate with allocation party through store inventory management and lineup optimization by analyzing their sales revenue data
- Operate education platform and create sales guide and e-learning contents for field force

Contents & Service Marketing

- Lead the development, strategic planning, and execution of the medium to long-term TV service business plan, driving operational initiatives forward
- Establish strategic partnerships to strengthen platform competitiveness and expand eco scale
- Plan new service products and content, and manage the life cycle from launch to operation
- Develop monetization strategies on Samsung's digital advertising products including TV Plus and oversee global Ad sales and Ad operations organization
- Develop data strategies for better user experiences and data privacy strategies in order to protect users' data safely

Visual Display Business(Suwon) Marketing

Deliver differentiated value to consumers through effective communication methods, to create the desired managerial goal and to raise the brand value, based on market sensing and data analysis

Requirements

- Fluent foreign language ability to communicate with and present to overseas subsidiaries and customers
- Ability to analyze market circumstances and trends based on various channels and data
- Ability to understand consumer lifestyles and product purchasing patterns

Preferences

- Marketing/communication-related majors and/or equivalent knowledge
- High understandings and interests of TV, Monitor, Signage and Hotel TV products and technology
- Internal/external experiences related to the job roles

Career Vision

- Develop career as an expert establishing and managing Life Cycle of TV, Monitor, Signage(LCD/LED), Hotel TV, from managing sales/profit to setting up mid-term/long-term Product Road Map(PRM) and creating innovative product concept
- Contribute to consumer needs expansion by identifying optimized marketing strategy and Point of Differentiation(POD) through regional market/product analysis
- Experience a variety of marketing strategies including brand improvement, positioning strategy, communication/promotion, etc.
- Develop career as an expert in the field of contents and services through various experiences from contents production and operation to digital advertising

Digital Appliances Business(Suwon) Marketing

Based on the market sensing and information analysis results, discover customer experience-oriented product, service differentiated value and increase brand value by delivering them to the consumers through effective communication strategies

Responsibilities

Product Planning

- Identify opportunities and product lineup strategies through market, consumer, competitor, and technology analysis
- Create new and differentiated concepts of the products that affects consumer lifestyles
- Create products in a timely manner necessary to resolve customer pain points, based on consumer experience

Customer/Market Insight

- Find and analyze market/customer insights through product usability and connectivity evaluation and research from the customer perspective
- Improve customer experience by reflecting insights based on real-use evaluations into products
- Establish plans to effectively deliver product-to-product connectivity experiences to global customers

Solution/Service Planning

- Establish brand-new customer experience strategy using SmartThings and MDE (Multi Device Experience)
- Planning new user scenarios based on consumer experience and driving the adoption of new product features.

Product Management

- Establish product portfolio and manage PLC(Product Life Cycle) based on the understanding of customers, markets, competitors and technology trend
- Establish POD(Point of Difference) strategy based on the analysis of market, consumer, and products/technologies of competitors

Marketing Communication

- Establish marketing communication strategies such as brand management and launch of new products, develop marketing activities via ATL(media advertising) and BTL(other advertisement)
- Develop and execute marketing strategies, product/service promotion, and campaigns
- Produce exhibition, promotion, launch event and video/digital contents
- Establish and operate regional Go-to-market strategies

Retail Management

- Establish effective retail marketing strategies by developing store/exhibition guides and exhibition solutions when introducing new models
- Optimize store inventory management and lineup operation through sales result analysis
- Operate an educational platform for field forces, produce sales guides and online education content

Digital Appliances Business(Suwon) Marketing

Based on the market sensing and information analysis results, discover customer experience-oriented product, service differentiated value and increase brand value by delivering them to the consumers through effective communication strategies

Requirements

- Fluent foreign language ability to communicate with and present to overseas subsidiaries and customers
- Ability to analyze market conditions and trends based on various channels and data
- Ability to understand consumer lifestyles and their product purchasing patterns

Preferences

- Marketing/communication related majors or equivalent knowledge
- Sensitivity to electronic product trends and high understanding of home appliances products and technologies
- Extracurricular experiences related to the role

Career Vision

- Product life cycle establishment and management expert with ability to establish long-term roadmap of products, and create innovative product concept
- A marketing and sales expert who optimizes marketing strategy based on regional market/product analysis, discovers product differentiation points, and manages sales profit & loss
- Experience a variety of marketing strategies including brand improvement, positioning strategy, communication/promotion, etc.

Mobile eXperience Business(Suwon) Marketing

Design and commercialize our products, experiences, and unique selling points. With effective communication skills, enhance our brand value and achieve our business goals.

Responsibilities

Product Planning

- Discover opportunities and formulate product strategies through market, consumer, competitor, and technology analysis
- Design and explore new concepts, products, and differentiating features that embrace consumer lifestyles
- Develop/manage regional product portfolios and its go-to-market strategies

Experience Planning

- Define and develop detailed plans on core Galaxy experiences spanning over our products, apps, services, and features
- Plan/commercialize multi-device experiences and develop/manage its go-to-market strategies
- Establish Galaxy ecosystem with discovery of new features, apps, and services through business partnerships

Marketing Communication

- Develop marketing strategies such as branding and product launches and design marketing activities with ATL and BTL agencies
- Formulate online/digital marketing strategies and execute various marketing campaigns
- Carry out product launch events, exhibitions, adverts, and create video contents

Consumer Marketing Insight

- Discover consumer market insights to improve product/marketing/consumer experiences
- Explore and analyze consumer trends and suggest and support business decisions

Requirements

- Fluent foreign language ability to communicate with overseas subsidiaries and customers
- Ability to analyze market circumstances and trends based on various channels and data
- Ability to understand consumer lifestyles and product purchasing patterns
- In-depth understanding of new Technologies and emerging cultural trends (incl. Gen-Z)

Preferences

- Marketing/communication related majors and/or equivalent knowledge
- High understandings and interests of smartphone, tablet and wearable technologies

Career Vision

- Experience diverse marketing strategies such as branding, product positioning, adverts, and campaign development.
- Discover insights through consumer trend analysis with expertise in every product commercialization processes (investigate, plan, develop, go-to-market)
- Grasp latest consumer and IT trends and HW/SW technologies to create new trends and lead mobile industry
- Gain expertise on cost, profit, and revenue structure as well as product life cycle management from product inception to its termination

Global Sales

Establish sales strategy to maximize sales based on analysis of customers/markets and suggesting products to meet customer demand



Visual Display Business(Suwon)

Global Sales

Establish product/sales/distribution strategy based on understanding of customer and market, set up sales goals of each product, and execute to contribute to sales maximization

Responsibilities

B2C Sales

- Establish and execute short/mid/long-term sales strategies (product/distribution/price/promotion/marketing) based on market demand in an assigned area/organization and analysis of our/competitor sales data
- Maximize our new growth driver product's sales by discovering new opportunities of market
ex) The Freestyle(Mini Projector), Set up sales plan of personal devices to target Gen-Z

Online Sales

- Set up online sales strategies and goals and support the execution of assigned area/organization based on understanding of E-Commerce(Samsung.com/Pure player(Amazon etc.)/Retailer.com(BBY.com etc.))
- Establish and execute the contents marketing strategies centering on Samsung.com and support the sellout of corporate based on customer data

B2B Sales

- Understand the characteristics of various industries such as retail/finance/education and propose products and solutions to create added value
- Lead and participate in the whole process of B2B Business(identify market and customer, award a contract, supply products and services etc.)
- Discover new market and business model

Career Vision

- Develop career as a sales expert leading the expansion of global display business through various field experiences in domestic and overseas markets
- Develop career as a sales leader proposing innovate business models based on understanding of display market and B2C/B2B customer

Requirements

- Fluent foreign language ability to communicate with overseas subsidiaries and customers
- Adaptability to global cultures to discover new markets(Southeast Asia/Central and South America/Middle East/India/China etc.)

Preferences

- Having interest and high understanding of characteristics and technology of TV, Monitor, Signage(LCD/LED), Hotel TV
- Internal/external experiences related to the job roles
- Ability of identifying sales insight and of establishing strategies through analyzing market/product/competitors data of assigned area/country
- Ability in second foreign language

Digital Appliances Business(Suwon) Global Sales

Identifying products/solutions that meet customer needs, and establishing sales goals and strategies to contribute to maximizing sales, based on understanding of customer and market

Responsibilities

B2C Sales

- Establishment of corporate goals and short/mid/long-term sales strategies based on market demand in an assigned area and analysis of our/competitor sales data
- Identification of the opportunities and threats in advance by monitoring the status of the corporate and support the appropriate physical and human resources to achieve the sales goal

B2B Sales

- Understand the characteristics of industries such as construction/interior/Built-in specific distributor and propose products and solutions to enhance customer satisfaction, thereby creating added value and develop collaborative business model
 - ※ B2B products : System AC, Built-in, Smart Home etc.

Online Sales

- Set up sales targets and strategies, and support local sales based on the understanding of E-Commerce(Online-selling)
- Strengthen strategic response and business execution capabilities by country/main buyers as the online market expands
- Establish sales strategy through analysis of online consumption trend and consumer buying characteristics

Sales Operations

- Establish global sales operation strategy and manage business operation based on the understanding of consumer and market trend
- Establish KPI by forecasting market demand and analyzing data of the sales
- Establish sales strategy guidelines by analyzing domestic and foreign market trends and reviewing sales status across the region

Digital Appliances Business(Suwon) Global Sales

Identifying products/solutions that meet customer needs, and establishing sales goals and strategies to contribute to maximizing sales, based on understanding of customer and market

Requirements

- Fluent foreign language ability to communicate with overseas subsidiaries and customers
- Adaptability to global cultures to discover new market opportunities

Preferences

- Sensitivity to home appliances trend and clear understanding of the market
- Internal/external experiences related to the job roles
- Ability to discover sales insights and strategize by analyzing internal/external conditions of the country in charge and market data
- Ability in second foreign language

Career Vision

- Develop career as a sales management expert leading the expansion of global home appliances business through the various field experience in domestic and overseas markets
- Gain expertise on Product Life Cycle management from production to sales
- Develop career as a sales leader proposing innovative business models through understanding home appliances products/technologies and various B2B customer demands

Mobile eXperience Business(Suwon) Global Sales

Maximize MX business's sales with establishing sales goals and strategies of each region/customer, by analyzing each individual market demands and competitive environments

Responsibilities

Sales Management

- Discover new business opportunities through mobile industry market trend sensing, and establish mid- to long-term sales strategy
- Manage supply of all mobile products based on SCM(Supply Chain Management)
- Manage business operations for all mobile products(Smartphone, wearable, tablet) by maintaining optimal distribution and inventory levels with considerations to sales data.
- Manage Key Performance Indicators(KPI) such as sales, profit and loss, and market share

Channel Marketing

- Plan a "Go-To-Market(GTM)" launch guide, of which includes developing/ specifying retail communication strategies for each channel, educating field sales employees, etc.
- Apply global Galaxy brand story of MX Business to fit different market/customer situations and requirements
- Create strategies and ideas to coordinate effective promotions, by analyzing sales trends of each product
- Establish strategies to strengthen online channels of each region.

Product Management

- Establish product line-up strategy of each channel by analyzing our customer/market trends, and manage PLC(Product Life Cycle) of individual models
- Set up price positioning strategies based on competitor analysis to increase market share of Galaxy brand
- Lead on product delegations and R&D schedule management in order to launch new products at the optimum time to maximize sales

Requirements

- Fluent foreign language ability to communicate with overseas subsidiaries and customers
- Adaptability to global cultures to discover new market

Preferences

- Those who are sensitive to electronics industry trends and have high level of understanding of MX Business products and technologies
- Industrial Engineering and statistics, or other related majors
- Capability of strategy establishment and sales insight deduction via data analysis of the assigned country's market, product, competitor
- Ability in second foreign language

Career Vision

- Develop career as a Global Sales expert, leading mobile industry through various field experience
- Enhance global communication skills through cooperation with top global business partners and customers
- Secure business operation abilities in participation of entire process from product planning and production to actual sales to customers