SAMSUNG DISPLAY

2026

SAMSUNG DISPLAY RECRUITMENT

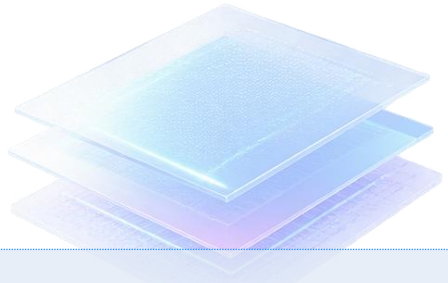
JOB DESCRIPTION

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Job Function	Sub-Function	Eligible Majors	Location
Research & Development	Material Development	Electricity/Electronics(HW), Chemistry/Chemical Engineering, Materials/Metals, Machinery, Physics, and other related majors	Giheung Asan
	Process Development		
	Equipment Development		
	Electronics Development		
	Panel Design		
	Module Development		
	PA (Process Architecture)		
	Product Development		
	CAE Simulation		
	Analysis Engineer		
Manufacturing / Technology	Process Technology	Electricity/Electronics(HW), Chemistry/Chemical Engineering, Materials/Metals, Machinery, Physics, and other related majors	Asan Cheonan
	YE (Yield Enhancement)		
	Inspection & Measurement		
	Quality Assurance		
Software Development	Equipment Automation Development	Electricity/Electronics(SW), Computer, Industrial Engineering, Machinery, Physics, Mathematics, Statistics, and other related majors	Giheung Asan
	Inspection Equipment Development		
	AI Development		
Management Support (General)	HR(AI security)	All majors	Giheung
Management Support (Finance)	Management Support	Business and Economics	Giheung Asan
	Finance		
Sales Marketing	Sales	All majors	Giheung
	Marketing		

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R&D



Development of next-generation displays and improvement of product characteristics by developing circuits/drives, materials/devices, processes/equipment, etc. required for displays based on display-related major knowledge

Role

☐ Material Development

- Research/development of organic/inorganic materials to improve panel emission characteristics of various display products (smartphones, monitors, TVs, etc.)
- Advance development of next-generation light emitting materials (phosphorescence, TADF, etc.) and process improvement for nanoscale organic/inorganic deposition film control
- Perform molecular-level material analysis and simulation to cater to various backplanes and customer requests
- Pre-verification of organic/inorganic materials using AI and device structure analysis for multi-layer organic/inorganic material deposition films
- Various simulations and measurement analysis to improve the lifespan/power consumption and image quality of individual device

☐ Process Development

- Development of OLED, QD display process (B/P, EVEN, CELL, etc.) and advanced technology for improving device characteristics
- Development of new methods for various product lines (Smartphone, Foldable, IT, Auto, VR, etc.)
- Development of element technology and materials for each unit process (performing inspection, measurement, analysis, etc.)

☐ Equipment Development

- Optimal facility structure design, process characteristics and performance prediction/analysis that meets process specifications
- Development of deposition/thin film/Inkjet related equipment, verification of process performance, stabilization and securing mass production performance
- Development of new process equipment for production of next-generation products

☐ Electronics Development

- Realization of optimal efficiency and highest picture quality through development of driving system
- Research on next-generation driving methods and development of circuit compensation and algorithms to realize the highest picture quality and quality
- Development of IC for efficient driving power generation and data driving of OLED and QD Panel
- Research on technologies for sensing and processing various signals (Pen/Finger Touch, RF signals, etc.)

☐ Panel Design

- Panel mask design of commercialization/advanced model, establishment of design rules
- Panel circuit simulation, panel characteristic/defect analysis, D-IC drive specification set-up, inspection criteria set-up
- Development and design verification of new pixel circuits and driving driver circuits, development of design solutions, and implementation of design automation
- Touch panel design, TSP new technology development, TSP inspection and defect analysis

☐ Module Development

- New module structure design and construction method development for next-generation products
  : Development of Foldable Smartphone/Tablet module advanced technology/part, development of next-generation OLEDoS module construction methods for VR, and development of IT/Auto new design module construction methods, etc.
- Development and application of high-performance materials and new design components for OLED displays
  : Curved glass, high adhesion materials, optical/strength compensation coating materials, optical films, heat dissipation materials, ACF materials, etc.

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☐ PA (Process Architecture)

- Improvement of yield/characteristics/reliability for successful entry into mass production of various commercialization tasks
- Improvement of yield/reliability/characteristics through analysis/mechanism establishment for display defects
- Standardization of design rules and establishment of new process/method process management plan

☐ Product Development

- Timely development and transfer to mass production of commercialization considering factors such as product specifications, performance, new technology, and customer segments
- Verification of new technology/new process, technical review, and proposal of plan to fine-tune products
- Development of mechanical parts to optimize displays and enhance durability and heat dissipation for low-power, high-definition implementation

☐ Computer-Aided Engineering (CAE) Simulation

- Improvement of product characteristics and development efficiency by performing modeling and simulation of materials/devices/circuits/optics/drives
- Development of analysis technology for advanced and mass production processes
- Product reliability analysis, panel design verification, development of next-generation sensor analysis technology

☐ Analysis Engineer

- Performing structural/surface/chemical analysis to optimize display product research/development/mass production and process
- Development of new analysis technology to improve process/PA issues of developed/mass-produced products
- Identification of the cause of product reliability/customer defects and verification of improvement by interpreting analysis results

Relevant Subjects

- **Electricity/Electronics(HW):** Communication/network/signal processing, semiconductor/display, digital/analog circuit design, control/measurement engineering, etc.
- **Chemistry/Chemical Engineering:** Organic chemistry/inorganic chemistry/physical chemistry /electrochemistry, industrial chemistry/chemical processing, analytical chemistry/polymer chemistry, materials chemistry, etc.
- **Materials/Metals:** Semiconductor materials/metal materials, polymer materials/ceramic materials, electronic materials, material design/material analysis, material properties, etc.
- **Machinery:** Heat/fluid mechanics, solid/material mechanics, dynamics, production/design engineering, control/measurement engineering, etc.
- **Physics:** Solid state physics, photon/quantum mechanics, particle physics, atomic/molecular physics, statistical physics, etc.

Requirements

- Electricity/Electronics(HW), Chemistry/Chemical Engineering, Materials/Metals, Machinery, Physics, and other related majors
- Basic knowledge/competency in displays, semiconductor processes, and device characteristics

Pluses

- Experience in extracurricular activities related to the job (projects, papers, patents, competitions, etc.)
- Certifications related to the job (technician, industrial engineer, etc.)

Career Vision

☐ Material Development

- Based on currently mass-produced organic and inorganic materials, various advanced research such as molecular/structural design, simulation, and structural analysis of light-emitting materials is possible, and display material research capabilities can be strengthened by writing papers and patents.
- Through the experience of applying self-developed materials to actual mass production processes and implementing them into products to achieve target panel characteristics, you can not only improve your capabilities as a materials engineer but also grow into a next-generation display materials expert.

☐ Process Development

- Through research/development of OLED and QD display processes, you can strengthen your personal capabilities and grow into a process expert.
- You can contribute to the commercialization of future technologies through the development of process materials and devices and lead the future through advanced development of new technologies and methods.

☐ Equipment Development

- You can grow into a facility expert by developing new line facilities and securing mass production technology for next-generation products.
- You can improve productivity by building efficient and advanced lines and facilities and contribute to the mass production of competitive products by leading to technological innovation through various related research.

☐ Electronics Development

- You can become an algorithm and RTL design expert by utilizing SW and H/W languages, and you can also grow into a semiconductor expert through display drive and sensor IC development/planning work. You can also experience more specialized fields through IC process analysis work.
- You can grow into an expert through various job experiences, such as suggesting new panel driving methods related to not only silicon semiconductors but also display panels, or display architecture, which studies the sensing structure built into the panel.

☐ Panel Design

- You can review initial risks and work on various processes such as mask layout design characteristics, simulation and prediction, and defect mechanism analysis to ensure that the advanced and commercialized models are commercialized.
- Through the development of new pixels and driver circuits, you can take the lead in realizing high-quality, low-power consumption products, and contribute to improving competitiveness through our experience in designing future market-leading display panels.

☐ Module Development

- You can contribute to leading the global display market through the development of new form factor components/processes.
- You can grow into a display module expert through research and development of new module parts/materials/methods to secure super-gap performance of next-generation display products (Foldable, IT/Auto, OLEDoS, etc.).
- You can develop expertise in module structural analysis/thermal analysis-based technology and unit module process technology (Bonding, Lamination, Laser Cut, etc.).

☐ PA (Process Architecture)

- You can grow into a development expert by leading the design, structure, and process optimization of OLED and QD displays.
- Standardization is carried out through optimization of new construction methods/technology, and you can contribute to timely mass production by encompassing design/process/structure.

☐ Product Development

- In the development of various display products, you can lead tasks from task planning to customer consultation. You can contribute to fine-tuning products by taking charge of task management, FPC design, defect analysis, image quality optimization, and mechanism design.
- You can develop capabilities for product innovation such as new technology/new process/core component development, and grow into an expert who communicates directly with customers regarding tasks.

☐ CAE Simulation

- You can grow into a CAE expert through reliability analysis/prediction of materials/devices, panel design, processes, and products.
- You can develop capabilities to develop next-generation display analysis model S/W and image restoration algorithm development.

☐ Analysis Engineer

- Through analysis and interpretation, you can grow into an analysis expert who verifies defect mechanisms and provides solutions.
- You can contribute to fine-tuning products by identifying the causes of quality issues in the development and mass production stages and suggesting improvement plans.

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Manufacturing/Technology



Provision of optimal solutions to achieve optimal characteristics and productivity of individual process based on expertise in FAB processes (Photo, Etch, CVD, EV, EN, etc.) and module processes (mounting, laminating, etc.)

Role

☐ Process Technology
- Development, management, and productivity/yield improvement of display unit processes (Photo, Etch, Wet clean, EV, EN, Cell, ELA, etc.)
- Display module process (mounting, laminating, assembly, etc.) productivity and process quality improvement
- Establishment of improvement/measures by predicting product characteristics and defects using equipment parameters and system data
- Enhancing yield/quality productivity and securing competitiveness of individual unit process
- Performing process condition optimization and stabilization work for the development and management of individual unit process technology

☐ YE (Yield Enhancement)
- Improvement of initial yield of new products and verification of mass production of new technologies
- Enhancement of yield through change management and source improvement
- Optimization of defect management (environment/pollution/static control)

☐ Inspection & Measurement
- Improvement of inspection/measurement equipment efficiency and detection power and automation of measurement equipment
- Development of measuring instrument for optical property evaluation and measurement quantification
- Improvement of inspection/measurement technology and facility efficiency through development/introduction of new technologies

☐ Quality Assurance
- Securing internal quality standards through the required quality verification framework at each stage of development
- Quality improvement, product process monitoring, and shipment management for mass production and shipment quality assurance
- Approval of development parts and quality control at entrance to mass production parts to ensure part quality
- Improved quality satisfaction through defect analysis and customer management
- Establishment and promotion of a Quality Management System

Relevant Subjects

- Electricity/Electronics(HW): Communication/network/signal processing, semiconductor/display, digital/analog circuit design, control/measurement engineering, etc.
- Chemistry/Chemical Engineering: Organic chemistry/inorganic chemistry/physical chemistry /electrochemistry, industrial chemistry/chemical processing, analytical chemistry/polymer chemistry, materials chemistry, etc.
- Materials/Metals: Semiconductor materials/metal materials, polymer materials/ceramic materials, electronic materials, material design/material analysis, material properties, etc.
- Machinery: Heat/fluid mechanics, solid/material mechanics, dynamics, production/design engineering, control/measurement engineering, etc.
- Physics: Solid state physics, photon/quantum mechanics, particle physics, atomic/molecular physics, statistical physics, etc.

Requirements

- Electricity/Electronics(HW), Chemistry/Chemical Engineering, Materials/Metals, Machinery, Physics, and other related majors
- Basic knowledge/competency in displays, semiconductor processes, and device characteristics

Pluses

- Experience in extracurricular activities related to the job (projects, papers, patents, competitions, etc.)
- Certifications related to the job (technician, industrial engineer, etc.)
- Inspection/measurement/analysis equipment capabilities

Career Vision

☐ Process Technology

- You can experience mass production of various new display products such as OLEDoS, Foldable, IT, Smartphone, and Watch, and you can grow into a process technology expert based on various job experiences such as new line investment and process set-up.
- Through various product analysis technologies, facility improvements, and process evaluations to boost productivity, you can contribute to increasing the competitiveness of display products by improving process defects.

☐ YE (Yield Enhancement)

- You can manage FAB/Module product yield and contribute to improving yield by optimizing change/defect management.
- By analyzing various areas such as product structure, design, construction methods, and materials, you can identify defect occurrence mechanisms and contribute to improving the foundation and mass production of display products.
- In order to improve the initial yield of new products, you can cultivate the next-generation display yield improvement capability by verifying and improving the mass production of new technologies/processes in advance.

☐ Inspection & Measurement

- You can grow into an inspection expert by developing display-related detection technology (optics), developing detection algorithm software (AI/DL), and building an automatic inspection system (Smart Factory).
- You can contribute to improving the quality of display products.

☐ Quality Assurance

- You can cultivate global quality capabilities in the display industry through diverse display products and experience with customers, partners, and overseas corporations.
- You can develop your capabilities through quality qualification training and grow into a quality expert (CQE, CRE, Auditor (ISO Certification Auditor, VDA), etc.).

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Software Development



A role responsible for designing control systems and developing related software to implement Smart Factory solutions, as well as developing software for inspection equipment based on an understanding of image processing and AI.

Role

☐ Equipment Automation Development (Software)

- Conduct R&D on unmanned automation, Smart Factory technologies, and related solutions based on software expertise.
- Design and develop software engineering solutions, systems, platforms, and Smart Factory infrastructure.
- Relevant Areas: System Software/Application Software/Automotive Software /Artificial Intelligence/Security Software/Frameworks /Smart Factory/Software Engineering/Development Infrastructure /Data Analytics

☐ Inspection Equipment Development (Software)

- Develop image preprocessing and defect detection algorithms.
- Improve inspection speed by developing high-speed and parallel processing algorithms.
- Develop system control software.
- Extract defect features and select appropriate training data.
- Train machine learning models for automated defect classification.
- Develop deep learning neural network models for automated defect classification.

☐ AI Technology & Platform/System Development

- Develop technologies for image data processing and analysis.
- Develop predictive models based on numerical data.
- Develop core technologies for AI platforms and build AI systems.

Relevant Subjects

- Electricity/Electronics(SW): Communications/Networks/Signal Processing, Computer Science/Programming, Digital/Analog Circuit Design, Control/Instrumentation Engineering
- Computer Science & Engineering: Communications/Networks/Signal Processing, Computer Science/Programming, Databases, Embedded Systems, Operating Systems, Artificial Intelligence/Machine Learning, Data Structures, Security/Software Engineering, Distributed Computing, Robotics, etc.
- Industrial Engineering: Systems Analysis, Production/Logistics Management, Quality/Data Management, Ergonomics, Information Systems, Management Engineering, etc.
- Mechanical Engineering: Control/Instrumentation Engineering, Robotics/Mechatronics, Numerical/Computational Analysis, Simulation/Modeling, Signal Processing, Optimization, etc.
- Physics: Computational Physics, Numerical Analysis/Simulation, Data Analysis, Statistical Physics, Signal Processing, Optics/Image Processing, etc.
- Mathematics/Statistics: Probability & Statistics, Statistical Quality Control, Computational Mathematics, Statistical Databases, Multivariate Analysis, etc.

Requirements

- Majoring in Electricity/Electronics(SW), Computer Science & Engineering, Industrial Engineering, Mechanical Engineering, Physics, Mathematics, Statistics, or other related STEM fields
- Ability to understand requirements and design and implement software solutions
- Proficiency in programming languages (C/C++/C#/Python/Java/PLC, etc.) and strong algorithmic problem-solving skills

Pluses

- Experience in job-related activities, such as projects, research papers, patents, or competitions
- Experience in conducting projects using software and/or hardware platforms
- Understanding of and hands-on experience with Machine Learning and Deep Learning
- Statistical analysis skills for real-time equipment control and optimization
- Basic understanding of AI and the ability to apply AI technologies, along with skills in image data processing and analysis

Career Vision

- You can grow into a Smart Manufacturing Software expert with a strong understanding of both manufacturing equipment and software development by developing automation software, inspection equipment software, and systems for display manufacturing.
- You can contribute to improving productivity and quality and strengthening manufacturing competitiveness through diverse development experience in equipment control, data collection and analysis, inspection automation, and system optimization.
- You can grow into an AI technology expert by applying cutting-edge technologies such as AI, Deep Learning, and Computer Vision to various manufacturing challenges and developing intelligent inspection, prediction, and optimization solutions.
- You can contribute to the implementation of next-generation Smart Factories by developing intelligent and automated technologies for equipment inspection systems.

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Management Support(General)

A role that contributes to business performance and supports strategic decision-making by management

Role

☐ Human Resources (AI Security)

- Establish and manage AI security policies, conduct AI security reviews, respond to AI security issues, and ensure compliance with relevant laws and regulations
- Conduct risk assessments for new AI technologies, manage policies for AI security solutions, and respond to security threats related to AI agents
- Analyze AI-driven cyberattack trends and monitor potential leakage of confidential information through AI systems.

Requirements

- Understanding of AI/LLM-based services and the use of Generative AI
- Understanding of cloud security across major platforms such as AWS, Microsoft Azure, and Google Cloud
- Understanding of AI security threats, such as Prompt Injection and Jailbreaking, and corresponding mitigation strategies

Pluses

- Possession of IT security certifications such as CISA, CISSP, ISO 27001, or ISMS-P
- Understanding of ISO/IEC 42001 (AI Management System)
- Experience in implementing and operating IT security and AI-related systems
- Experience in security operations and responding to security incidents in enterprise environments

Career Vision

- You can grow into an AI-driven cybersecurity expert by gaining experience in detecting and analyzing security risks using diverse security data and AI technologies.
- You can contribute to the intelligent automation of security operations by applying Generative AI/LLMs and AI Agents to cybersecurity tasks.

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Management Support(Finance)

A role that efficiently manages corporate resources and ensures the company's overall financial stability across Finance, Business Management, and other support functions

Role

☐ Management Support
- Setting up management goals, formulating business strategies, and examining current issues
- Enhancing business competitiveness through management performance evaluation and monitoring
- Company-wide risk management, key indicator (KPI) management

☐ Finance
- Fund operation and procurement, foreign exchange risk management
- Separate and consolidated settlement, accounting audit response, internal control and management
- Tax reporting/payment, Tax Risk Management, import/export related work

Requirements

- Majors in Business Administration or other Business and Economics-related fields
- Relevant knowledge and competencies in Finance, Business Management, or other corporate support functions

Pluses

- Experience in job-related activities, such as projects, research papers, patents, or competitions
- English communication skills sufficient to effectively communicate with overseas subsidiaries

Career Vision

- You can grow into a finance professional by managing corporate funds and financing activities while effectively managing foreign exchange, tax, and accounting risks.
- You can develop the capabilities to enhance business competitiveness through business planning and execution, as well as KPI management.

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Sales Marketing



Devising a sales strategy to maximize sales performance by predicting and analyzing changes in customers and the market, and mapping out and implementing a marketing strategy to strengthen overwhelming market dominance

Role

☐ Sales

- Performing CRM (Customer Relationship Management) including communication with customers
- Demand management for each product to manage mass production volume by customer, supply plan establishment, and price negotiation
- Securing customer orders based on short-term and mid- to long-term sales strategies
- Establishment of customer response strategy through industry and customer trend analysis, SCM analysis, etc.
- Responding to new product requests and regular customer meetings

☐ Marketing

- Analysis of macroeconomic and industrial trends, prediction/analysis of short-term market conditions and demand outlook
- Setting up and implementing marketing strategies (STP, 4P, etc.) and formulating mid- to long-term/management plans
- Establishment of profitability management and improvement strategies for each customer/product
- Discovering new business and customer, identifying sales points for each product, and establishing strategies for expanding applications
- Customer promotion, exhibition operation, and various online/offline promotional activities

Requirements

- Proficiency in foreign language communication
- Knowledge of Sales & Marketing

Pluses

- Experience in extracurricular activities related to the job (projects, papers, patents, competitions, etc)
- Strong English communication skills to effectively collaborate with overseas subsidiaries and customers

Career Vision

- You can develop expertise in sales management and Product Life Cycle (PLC) management, covering the entire product lifecycle from new product development to End of Life (EOL).
- You can grow into a marketing expert by developing the ability to identify market trends and changes in display supply and demand across applications such as smartphones and IT products, and use these insights to establish effective sales strategies.
- You can grow into a global sales expert by building a strong understanding of global markets and product characteristics, along with effective customer communication skills.