Innovative Technology,
DMC R&D Center

Dominant Paradigm,
Software R&D Center

DMC연구소는 차세대 이동통신 및 Networking, Multimedia Processing, Device 차별화 솔루션, 지능/감성形 Interaction, 親환경 솔루션, 공통기반 기술, 특허 및 표준화 등 세계 최초/최고의 기술을 개발하고 있습니다. 특히, 당사 內 IM부문(무선사업부/디지털이미징사업부/ 네트워크사업부/Media Solution Center 등) 및 CE부문 (영상디스플레이사업부/프린팅솔루션사업부/ 생활가전사업부 등)에 선행 핵심 기술을 연구하여 제공하는 중추적인 역할을 담당하고 있습니다.

소프트웨어센터는 디바이스 소프트웨어 플랫폼, 클라우드/빅데이터 핵심기술, 차세대 웹 핵심기술, 컨버전스/인텔리전스 서비스 플랫폼 등 세계 최고의 소프트웨어 선행 기술을 연구/개발하고, 당사 사업부문에 핵심 소프트웨어를 제공하는 역할을 담당하고 있습니다. 소프트웨어센터는 자유롭고 창의적인 조직문화를 바탕으로 Innovative Technology, Creative Services & Solutions을 연구/개발하여 새로운 미래 창조에 이바지할 것입니다.

지원 자격
박사급 연구원
: 기졸업자 혹은 2014년 2월, 2014년 8월 졸업 예정자
박사대여장학생
: 박사과정 1~9학기, 석박통합과정 5~13학기 재학생

지원 기간
박사급 연구원 : 2013년 10월 23일(수) 17:00까지
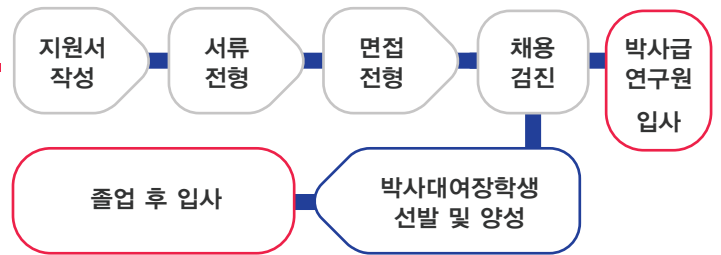박사대여장학생 : 2013년 10월 31일(목) 17:00까지

지원 방법
http://www.samsungcareers.com 접속
↓
경력사원 채용공고
↓
[DMC연구소/소프트웨어센터]
박사급 연구원 선발공고 / 박사대여장학생 선발공고
↓
지원서 작성

전형 절차
지원서 작성 → 서류 전형 → 면접 전형 → 채용 검진 → 박사급 연구원 입사
졸업 후 입사 — 박사대여장학생 선발 및 양성

캠퍼스 리크루팅
일시 : 2013년 10월 16일(수) ~ 17(목)
장소 : 공대 301동 1층 로비

문의처
박사급 연구원 031-279-5879 / is250.park@samsung.com
박사대여장학생 031-279-5151 / yangsy79@samsung.com

SAMSUNG ELECTRONICS

DMC R&D Center & Software R&D Center
박사급연구원 및 박사대여장학생 선발

모집 세부분야

분야	세부 분야	
Signal Processing	**Multimedia**	Image/Video/Audio/Speech/3D Processing, Coding/Streaming, Display Signal Processing, Immersive Multimedia Service, Audio Amplifier
	Graphics	Modeling, Animation, Rendering, System
	Bio Medical	Medical Imaging & System, Instrumentation, Medical Information System, Biology, Bio Sencing, Bio Verification & Identification, Bio Signal/Data Recording & Encryption
	Intelligent M/M	Speech Recognition & Synthesis, Natural Language Processing
	Environmental	Haptic/Touch Sensing, Environmental Sensing
	Computer Vision	Detection/Tracking, Modeling/Recognition, Indexing/Retrieval, Biometrics
	Computational Photography	Lightfield Imaging, Human Visual Perception based image processing, Image based rendering, Image based lighting, Non-photorealistic rendering, Image modeling/Synthesis, Multi Array Imaging, Coded aperture, Image Manipulation, Video Stablization
Computing	**Human/Computer Interaction**	Human Factors & Design,UI &Information Presentation, Wearable/Flexible Device, Data & Information Processing, Information System Applications, Experimentation, Measurement, Performance, Usability
	Cloud computing	Social network, Secuirty, Privacy and content protection, Commerce, Cloud of things, IaaS, PaaS, SaaS, Server Virtualization
	Heterogeneous & Parallel Computing	CUDA or OpenCL based GPGPU programming, Performance estimation using compiler Information, Resource management, Compiler including LLVM and CLANG
	Machine Translation	Statistical Machine Translation, Translation & Language Model, Pre & Post Processing
	Big Data:Knowledge Base, Data Mining, Machine Learning, Crowd Sourcing,Ontology	
System Engineering	**System Level Simulation**	ESL Design & Modeling, Co-simulation Methodology, Next-Generation SoC Architecture
	System workload modeling	Workload-based system benchmarking, Workload generation, System vertical tracing
	System power management	Low power policy, System power profiling, Energy-bug detection, Power Inverter/Battery Management Wireless Power Transfer, Battery Modeling & Management
	CAE(Computer Aid Engineering)	EMC Design & Simulation EMC on Mixed-mode System EMC on Wireless Power transfer
	eCAD/eCAE (electrical Computer Aided Design/ Engineering)	Analysis and Simulation for Rule Check, Automation, Verification & Evalution of mechanical Design : Structure, Dynamics, Thermal, Fluid Dynamics, Vibration and Acoustics, Injection, Multiphysics, Design Rule, Test Engineering Workspace System including process and solution for the simulation based product development
Mechanical	**Control & Dynamics**	Mathematical Theory & Algorithm/Adaptive & Optimal/Robust/Digital Control, Computer Simulation of Dynamic Systems, Motion Control & Manipulation, Acoustics & Acoustic Control, Medical Robot
	Fluids	Aerodynamics, Hydro Dynamics, Water/Air Treatment, Computer Simulation of Fluidic behaviors
	Thermal Sciences	Theoretical & Computational analysis/Simulation, Heat & Mass Transfer, Electrical and Thermal Co analysis of Electric Devices, Thermal Properties of Materials, Phase Change Thermo physics
	Mechanics	Load Analysis & Simulation, Micro & Nano System/Mechatronic Device Design, Performance Enhancement & Optimization, Acoustic Transducer/System Design, Bio Sensor
	mCAD/mCAE (mechanical Computer Aided Design/ Engineering)	Analysis and Simulation for Rule Check, Automation, Verification & Evalution of mechanical Design : Structure, Dynamics, Thermal, Fluid Dynamics, Vibration and Acoustics, Injection, Multiphysics, Design Rule, Test Engineering Workspace System including process and solution for the simulation based product development
Optics	**Geometrical Optics**	Illumination optics, Imaging optics, Optical evaluation, Non-imaging optics
	Physical Optics	Effective index control, Spectral/Diffractive optics, Polarization control, Interface optics, Holography, Near field optics
	Photonics	Photoniccrystal, Electro-optic/Opto-electric device, Interconnection, Optical computing
Communications	**Networking**	Cellular N/W & Service, Co-Existence, Vehicle Communication, Ad-hoc N/W, Future Internet Service, Optical/Ethernet N/W, N/W Security, N/W Switching/Routing/Management, Multimedia/Broadcasting/Web/Cloud Service, Device-to-Device Direct Communication, Communication for Medical Devices, Location/Presence Service, Home/WLAN/WPAN/NFC Device &N/W, Disaster/Delay Tolerant N/W
	Access Network	Beamforming, LDPC, OFDM, MIMO, mmWAVE
	Fields & Waves	Advanced Antenna, RF Circuits, Analog/Mixed Signal Circuits, RFID & NFC, EMI/EMC, Measurement Techniques, Wireless Power Transfer
UX	**UX Design & Evaluation for Product & Service**	Visual Design, User Research, Interaction Design, Information Architecture, Prototyping, Human Factors, Usability Evaluation, Industrial Design, Service Design, Design Management
Bio Medical	**Bio Sensing, Safey, Human body Influence**	
	Vibration Simulation Methodology & Influence for EMI	
	EMI/EMC Issues on Biomedical Research	
	Healthcare & Medical	Defining Hospital Solution Architecture, Testing/Analyzing existing or 3rd party S/W etc
Standardization		Cloud, Wireless Connectivity(Indoor wireless connectivity), LTE-based Beyond 4G Network and Future Network, Communication/Network Security, Broadcasting system
Software Platform	**JavaScript Acceleration**	Parallel JavaScript Engine, LLJS(Low Level JavaScript) Enabled JavaScript Engine, JavaScript Compiler (JS to LLJS)
	Linux kernel & device driver, Window system, 2D & 3D graphics, UI framework	
	Natural input : object tracking, Web engine & browser: HTML5	
	Compiler : GCC, LLVM, JavaScript JIT Compiler	
	Tools : SDK, Static analyzer, Profiling & debugging tools, etc.	
Operating System	**UNIX/Linux Kernel, Manycore OS, Computer Architecture**	
	Hypervisor, Virtualization	
	File System, Storage, Key-Value Store, Memcached, Network System	
	Embedded OS, Server-based OS, Web OS, Microkernel	
Middleware & Infrastructure		Intelligence & Recognition, Data & Information, HCI (User interface, etc), Content Processing, Security & Privacy Protection, Dev Tools, Infrastructure & Platform (Network, Communications, Virtualization, Server management, Cloud - SaaS, IaaS, PaaS), Web-based technology (Browser engine, etc)
Application & Services		Consumer, Enterprise, Public & Utility(Smart Grid, E-government, Smart City, etc.), Vertical Applications (Advertising, Automotive, Hospital Environment, Retail, Telecom, Transportation, Utility, etc)
Software Engineering	**Software Process/Infra, Software Testing**	
	Software Architect, Software Code/Binary Analysis	
	Software Profiling & Optimization	Algorithm, System SW, Platform/APP., Network Protocol etc.