

두산중공업 2015 R&D 부문 해외 우수인재 채용

2015.03.02(월)~04.15(수)

모집전공	- 기계 (구조/진동/소음/열/유체/연소) - 계측제어 (I&C) - 소재
지원자격	- 박사 학위 취득예정자 (15년 혹은 16년 초) 및 기 취득자 (Post-Doc 가능) - 남자의 경우 병역을 필 하였거나 면제된 자 - 해외여행 또는 해외근무에 결격사유가 없는 자
근무지역	- 창원 - 수지
선발분야	- 기계 Mechanical Engineering - 전기전자 Electrical Engineering - 소재 Material Engineering - 화공 Chemical Engineering - 가스터빈 기술 Gas Turbine Technology
접수기간	- 2015. 03. 02(월) ~ 04. 15(수) 24:00 까지 (한국시간)
접수방법	- 커리어 두산 (https://career.doosan.com) 에서 On line 접수만 가능
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[기계/Mechanical Engineering]

모집분야	세부분야	연구분야	근무지
Thermal & Fluid	Thermal & Fluid	 Supersonic/Subsonic solver development Design tool-CFD analysis tool integration & automation Even flow distribution and flow control Fluid induced vibration analysis 	- - 용인(수지)) -
	Turbo Machine Flow	 Axial turbine design/flow analysis Multistage flow solver development including wetsteam condensation Turbulence model development 	
	Multi-phase Flow	 2 phase flow(phase change & mixing) CFD analysis & experiment Particle generation and behavior CFD analysis & experiment(fouling, particle separation, etc) Free surface CFD analysis and experiment 	
	Combustion	 Coal combustion analysis solver development Combustion models development (devolatilization, char conversion, gas reaction, etc) Coal burner combustion CFD analysis Coal boiler combustion optimization technology 	
	Optimization of Flow Circuit & Heat Transfer Surfaces Arrangement and their Integrity Assessment	 Development of design tools for various type heat exchangers (condenser, feedwater heater, moisture separator reheater, HRSG, Gas-Gas heater and etc.) Analysis for transient heat transfer phenomena Dynamic simulation to predict the system dynamic behaviors Assessment of structural integrity, reliability and life cycle of critical components 	
	Heat Transfer Performance Improvement	 Optimum design of heat exchangers Experimental and numerical analysis of heat exchangers Heat transfer enhancement using super hydrophobic nanostructured surfaces 	
Structure / Vibration	Structural Strength	- Structure analysis, reliability analysis - Seismic and impact analysis - Optimum design	
	Life Assessment	- Fatigue analysis and life assessment - Crack propagation analysis, Creep analysis - Fatigue-Creep interaction analysis	- 용인(수지) -
	Vibration Engineering	 Structural vibration analysis/Test technology Rotor dynamics and tribology Signal processing/Diagnostic monitoring technology Flow-induced vibration 	
	Noise Engineering	 Noise engineering and noise control Structure/Aerodynamic noise analysis and test technology 	

[기계/Mechanical Engineering]

모집분야	세부분야	연구분야	근무지
Plant System Engineering	System Performance Analysis	 Plant cycle heat balance calculation and optimization technology Heat transfer and boiler/turbine performance design Tube inside flow balancing and stability analysis technology 	- 용인(수지) -
	System Dynamic Behavior Analysis	 Computer aided dynamic simulation technique for power plant Boiler/HRSG dynamic analysis and system design technology Mechanical dynamics (Turbo machinery dynamic analysis, Mechatronics) Simulator for power plant 	
	Design Tool Development and Automation	- Software design & integration, Numerical analysis & algorithm - Database design & data processing - Graphics & data visualization, Application framework	
	Combustion System Analysis	 Combustion model development Emission(CO, NOx, Soot etc.) estimation technology development Radiation heat transfer analysis technology development Combustion CFD analysis technology(Open source using) Power plant burner/boiler combustion CFD analysis 	
	New Energy System	 Process design and optimization Thermal property, Thermal fluid characteristic research CAPE(Computer Aided Process Engineering) technology Supercritical fluid application technology development 	

[전기전자/Electrical Engineering]

모집분야	세부분야	연구분야	근무지
Control System	Control System Hardware	 Control system architecture design Embedded system hardware/firmware/FPGA design Industrial wireless, fieldbus communication hardware/firmware design Inverter design 	- 용인(수지)
	Control System Software	 Control system software and communication protocol design Device driver design Engineering tool and database design Software verification and validation 	
Process Control	Control Algorithm	- Power & Desalination plant control algorithm development - Plant dynamic analysis & optimal tuning technology development	
	Simulation & Optimal Control	 Power & Desalination plant simulation & proven technology Optimal algorithm design using modern control theory Plant operation & reliability improvement technology 	

[소재/Material Engineering]

모집분야	세부분야	연구분야	근무지
Material Science & Engineering	Structural Material	 Alloy design of steel(ferritic, martensitic, austenitic) & development Alloy design(Simulation) of non-ferrous alloy(Ni & Co-based superalloy, Ti alloy) & development High temperature material for steam/gas turbine/boiler application Hot stamping/Mold steel & Roll material Plant & Nuclear material 	창원
	Material Evaluation & Life Assessment	 Mechanical property/Evaluation of ferrous & non-ferrous alloy Corrosion/Oxidation/Chemical metallurgy/Diffusion Fatigue, Creep, Creep-Fatigue evaluation/Fracture mechanics Welding metallurgy/Simulation of welding Material evaluation/Life assessment of ferrous & non-ferrous alloy Phase transformation/Metallography/Crystallography Physical metallurgy 	
	Metal Process Engineering	 Metal forming & Process, Simulation Precision forging & Open die/Closed forging of metal Investment casting of Ni- & Co-based superalloy for GT blade/vane Ingot making process(ESR, VAR, VIM) & simulation 	
Advanced Process Development	Surface Treatment	 New process development of thermal barrier coatings Surface treatment and coating powder materials development Optimized coating technology Metallurgical characteristics and reliability assessment techniques 	창원
	Welding Joining	 Repair welding & joining technology of super heat resisting alloys High alloys welding metallurgy, material test & evaluation Joining material development of brazing & diffusion process Defect analysis and evaluation of dissimilar welding 	
	Structural Integrity Evaluation	 Flaw growth analysis & structural integrity evaluation Evaluation of thermal, mechanical and welding residual stresses using computer aided numerical method Fracture mechanical evaluation of cracked structures, pipes & vessels 	

[회공/Chemical Engineering]

모집분야	세부분야	연구분야	근무지
Water R&D	Desalination	- Advanced desalination technologies (Electrochemical tech., Noble membrane application, Energy consumption optimization, etc.)	 용인(수지)
	Wastewater Treatment	 Anaerobic digestion technology (Pretreatment, Biogas production, Wastewater treatment technology after dewatering and drying, etc.) Industrial wastewater treatment (Process engineering, Absorption/ Separation technology) Advanced wastewater treatment technology (Electrochemical tech.) 	
	Water System Hybridization for Low energy Consumption	 Water system integration with renewable energy Water process optimization for low energy consumption New process development applied with electrochemistry, osmotic technology, etc 	

[가스터빈 기술/Gas Turbine Technology]

모집분야	세부분야	연구분야	근무지
Gas Turbine Development	System Integration	- Turbomachinery rotor integration design - Turbomachinery layout/platform design - Mechanical design (Pipe, Valves, Pedestal, etc) - Turbomachinery rotordynamics analysis	
	Compressor	 Axial compressor aerodynamic design Turbomachinery aeromechanic design Turbomachinery mechanical design & safety evaluation Compress Performance/aeromechanic test 	
	Combustor	- Combustor mechanical design - Combustor heat transfer analysis/Cooling Design	
	Turbine	- Axial turbine aero-thermal design - Heat transfer analysis / cooling passage design - Cooled blade/vane heat transfer test	