Job Posting for Permanent Full-time Positions for H2 2018

This posting includes a three-step procedure according to 'the Guidelines for Turning Temporary Positions into Permanent Positions' of the Ministry of Science and ICT.



A government-funded research institute, the Korea Institute of Industrial Technology (KITECH) is dedicated to leading the development of Korea's industrial source technologies and manufacturing innovation, consistently driving the advancement of national competitiveness in industrial technologies by fostering global hidden champions.



Area of Employment

☐ Research Sector

Category	Area	Qualifi- cation (Open Positions)	Remar k
	 Material/Mechanical/Industrial/Information Communications Engineering Smart manufacturing process technology and virtual reality technology 3D printing process and system Manufacturing process design/interpretation technology 	Doctor (1-9) Master (1-9)	
	 Mechanical/Production Engineering High-strength low-moldability plate material molding Mold cutting processing and micro-processing 	Doctor (1-9) Master or Doctor (1-9)	
Research Institute of Advanced	 Metal/Material/New Material Engineering Intelligent microstructure control plastic working Development and process of high-tech materials 	Doctor (1-9)	Location: Incheon
Manufacturing Technology	 Metallic material performance assessment and analysis Electronic package solder joint Power semiconductor joint 	Master or Doctor (1-9)	Siheung
	 Metal casting technology Metal/Material/New Material/Chemical Engineering High-functionality surface treatment materials and process 	Mester (1-9) Dootor (1-9)	
	 Wet process electroplating and dry surface treatment Metal/Material Engineering/Physics 	Master or Doctor (1-9)	
	 Plasma nanocomposite and bio-coating Metal/Material/Mechanical/Chemical Engineering Casting process and high-functionality materials 	Doctor (1-9) Doctor (1-9)	
	 Intelligent welding process and welding metallurgy 		

Category	Area	Qualifi- cation (Open Positions)	Re- mark
	O Textile Materials - High-functionality/eco-friendly textile - Energy storage/conversion textile materials	Doctor (1-9)	
	E-textilePrecursor for carbon fiber and low-priced carbon fiberSmart wearable device	Master or Doctor (1-9)	
	 O Textile/Polymer Process High-value-added dyeing processing Textile composite design/interpretation (using 3D CAD and FEA) 	Doctor (1-9)	
	 Epoxy synthesis and application technology Felt-based filter manufacturing technology Polymerization/reforming and radiation technology for polymer for textile 	Master or Doctor (1-9)	
Research Institute of Industrial Technology	 Robot Recognition/sensor convergence/HRI Soft robot	Doctor (1-9)	Location: Ansan
Convergence	- Robot design and control	Master or Doctor (1-9)	Tillouii
	 NT/IT/CT Process Technology Nano materials for energy conversion MEMS/NEMS-based sensor manufacture Smart manufacturing process operation and control system Circuit design and firmware technology for entertainment engineering 	Master or Dodor (1-9)	
	O Future Convergence Production Technology - Artificial intelligence-based robot control/operation technology - Printing-based IoT device - ICT/AI convergence-type autonomous control processing system - VR/AR space/object recognition technology	Doator (1-9)	
	- Convergence technology through design thinking	Master or Doctor (1-9)	

Category	Area	Qualifi- cation (Open Positions)	Re- mark
	Chemistry, Chemical/Mechanical Engineering Clean chemical analysis and material properties assessment technology Renewable fuel thermochemical conversion and use technology	Master (1-9)	
	 Smart Control/Manufacture Smart machine SW technology Smart information analysis technology 	Dootor (1-9)	
	Smart Manufacturing Process System High-tech materials processing and system control technology Functional sensor technology	Doctor (1-9)	
Research Institute of Sustainable Manufacturing	Eco-friendly Process for Dealing with Hazardous Environment Organic electronic materials (solar cell, image sensor) technology High-functionality polymer design and synthesis/analysis technology Functional eco-friendly (reducing pollutants, etc.) chemical convergence materials technology	Doctor (1-9)	Location: Cheonan
System	Carbon Circulation Eco Energy Waste resource-based environmental (hydrogen) energy technology High-temperature energy production CPS (Cyber Physics System) tech -nology Production site energy-saving technology	Dodor (1-9)	
	Smart Heat Fluid/Refrigeration and Air-conditioning industrial energy high-efficiency technology Eco-friendly thermal system technology Energy device integration interpretation technology	Dootor (1-9)	
	Human/Bio-engineering Biometrics/measurement and connected health care technology	Doctor (1-9)	
	Material/Electric and Electronic/Physical/Mechanical Engineering Convergence sensor Light-emitting materials	Dootor (1-9)	
	MEMS/NEMS processFlexible device/module	Mæster (1-9)	
	Electric and Electronic/Chemical/Material Engineering	Master or	
Seonam Regional Division	 Energy storage/conversion application technology Mechanical Engineering/Computer Engineering/Electric 	Doctor (1-9)	Location: Gwangju
	EngineeringAutomotive electronicsIntelligent vehicle controlPlastic working/mold technology	Doctor (1-9)	Suntheon
	- Vehicle platform design	Master (1-9)	
	Metal/Material/New Materials Engineering Dry surface treatment Plate material rolling and rigid plastic working	Doctor (1-9)	
	- High-density thick film surface treatment	1-9 mesters	

Category	tegory Area		
Dongnam Regional	 Mechanical Engineering/Mechatronics IoT sensor-based failure diagnosis/prediction technology 	Doctor (1-9)	
	- Underwater navigation algorithm and platform design technology	Master or Doctor (1-9)	
	 Mechanical Engineering/Cutting Processing and Design Aircraft parts cutting processing system and process technology Tool abrasion-linked production competitiveness (low cost/high quality/high productivity) technology Cutting processing information monitoring/data processing technology Processing/molding process-linked parts design/engineering 	Doator (1-9)	Location: Busan . Jinju
Division	 Processing/molding process-linked parts design/engineering technology 	Master (1-9)	
	 Material Engineering/Structural Materials High-functionality nano structure control technology for extreme environment 	Master or Dootor (1-9)	Yangsan
	Material Engineering/Surface Treatment Material-based biocompatible surface treatment technology	Doctor (1-9)	
	 Plating process and eco-friendly surface treatment technology Superhigh-hardness nano complex coating technology for processing aircraft parts 	Master (1-9)	
	 Material Engineering Metal microstructure control and material deformation behavior analysis 	Master or Dootor (1-9)	
	 Mechanical Engineering Metallic materials lamination processing process and laser patterning Powder molding process (powder compression molding, injection molding, sintering process) Functional polymer materials design • interpretation and molding technology 	Dodar (1-9)	Location: Daegu . Gyeongsan
Daegyeong	- Tribology, bearing friction abrasion mechanism analysis	Master (1-9)	Yeongtheon
Regional Division	 Mechatronics (Machinery/Electrical and Electronics) Rotor kinetics/big data-based life soundness prediction management Unmanned platform system design and Al-based intelligent control 	Dodar (1-9)	Yeongju · Gumi
	- Motor interpretation and design for electric cars	Master (1-9)	Garyeong
	 Construction Machinery Area Multiple physical system interpretation and design/energy harvesting system 	Master or Doctor (1-9)	
	- AR/VR-based real-time design technology (HILS, MILS) - Hydraulic system interpretation/design/control	Master (1-9)	

Category	egory Area		Re- mark
	New Materials/Mechanical Engineering Computer simulation-based complex (nonferrous) metal processing technology	Doctor (1-9)	
	- Smart special thermal treatment and plastic working technology	Master (1-9)	
Gangwon	 Materials/Production Engineering Deep learning-based functional alloy design technology 	Doctor (1-9)	Location: Cengneung
Regional Division	 Metal powder manufacturing technology for lamination and molding 	Master (1-9)	
Division	Mechanical/Material (Metal)/Electronic Engineering Data mining and prediction technology based on Metallic materials thermodynamics (dissolution/coagulation process)	Dootor (1-9)	Wonju
	- Al-based optimal design/processing technology	Master or Doctor (1-9)	
	Chemical/Environmental Engineering Development of eco-friendly binder and process for casting	Doctor (1-9)	
	- Al-based process optimization design interpretation and catalyst synthesis	Master or Doctor (1-9)	
Ulsan Regional Division	 Chemical/Material/Environmental Engineering Nano materials application and assessment technology for reducing industrial fine dust 	Doctor (1-9)	Location: Ulsan
	 Greenhouse gases/fine dust causal substances emission reduction and assessment 	Master (1-9)	
	Mechanical EngineeringIoT-based laser micro-machining and application technology	Doctor (1-9)	
	 Mechanical Engineering Electronic control and measurement technique Hydraulic system design interpretation technology Plate material molding/plastic working process 	Master or Doctor (1-9)	
Jeonbuk Regional Division	 Mechanical/Electric/Electronic/Mechatronics Engineering Intelligent vehicle control and AI technology IoT sensor-based autonomous prediction diagnosis technology Big data analysis 	Doctor (1-9)	Location: Jeonju
	 Robot Engineering Soft robot Wearable robot Manipulator control 	Doctor (1-9)	Gimje
	Material/Mechanical/Chemical Engineering Carbon composite manufacturing process technology Functional nano composite thin film manufacturing and laminati on technology Flexible/elastic nano composite manufacturing technology	Dodor (1-9)	

Category	Area	Qualifi- cation (Open Positions)	Re- mark
	Electronic/Mechanical Engineering Digital-based functional product design/reverse engineering and manufacture Precision patterning micro-process design and manufacture	Doctor (1-9)	
Jeju	Mechanical/Electronic/Energy Engineering Energy materials/equipment/collection and efficiency improvement Al/machine learning-based model/smart health care solution	Doctor (1-9)	Location:
R&BD Center	Electronic/Industrial/Information Communications Engineering Equipment automation and data processing IoT/embedded system Sensor circuit design and micro-signal processing	Doctor (1-9)	Jeju
	Mechatronics/Material/Energy Engineering Bio-friendly materials/energy materials synthesis and assessment Part material design/processing and properties control/assessment	Doctor (1-9)	
Korea National	Industrial Environmental Regulations Industrial pollutants emission policy planning and commercialization Analysis of impacts of environmental regulations on industries and external cooperation	Doctor (1-9)	
Cleaner Production Center (KNCPC)	 Preferred are those with high foreign language skills (English, Japanese). Resource Circulation Technology and Policy Planning Resource circulation technology platform, life cycle-based policy planning, and international standards Re-manufacture Re-manufacture quality certification and statistics DB, re-manufacturing company process diagnosis guidance 	Master or Doctor (1-9) Master (1-9)	Location: Seoul
- N. E. J.	 Root Industry Technology Policy Root industry policy planning, new project planning/management/operation Preferred are those majoring in related engineering areas. 	Master or Doctor (1-9)	
Korea National Ppuri Industry Center	 Root Industry Manufacturing Process Advancement and Modernization Root industry smartification and energy saving policy Preferred are those majoring in related engineering. 	Master or Doctor (1-9)	
(KPIC)	 Fostering of Professional Technicians for Root Industry Manpower nurturing and workforce promotion policy planning/management Preferred are those majoring in law, politics, management of technology (MOT), or related areas. 	Master (1-9)	
Korea National	Industrial Convergence Foundation Formation Industrial convergence assessment/new convergence project discovery	Doctor (1-9)	
Industrial Convergence Center (KNICC)	 Empirical R&D (Machinery/Electronics) Empirical planning, execution, and result analysis feedback Solution of Problems in Commercialization of New Convergence Projects Support for suitability certification of new convergence products and special 	Master or Doctor (1-9) Master (1-9)	Location: Ansan
Korea Engineering	cases in regulation o Industrial Data Analysis - Policy planning related to cloud platform and big data	Master or Doctor (1-9)	Location:
Plant Center (KEPC)	Modeling · Simulation Modeling and policy planning in manufacture/engineering area	Master (1-9)	Ansan
Korea Institute for Rare Metal (KIRAM)	Rare Metal Manufacturing Process/Precision Analysis Rare metal powder manufacture and materialization technology Refined structure and trace element analysis	Master or Doctor (1-9)	
Packaging Technology Center	 Packaging, Polymer Materials, Polymer processing/Manufacture/ Analysis Eco-friendly packaging, nano materials, organic/inorganic composites, conductive polymer, etc. 	Master or Doctor (1-9)	

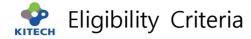
☐ Administration Sector

Area	Major (Qualifications)	Detail	Open Positions	Location
General Admini- stration (General Positions)	No required major (Only bachelor's degree is required.)	 Management planning, technology policy, etc. Preferred are those with special qualifications related to the jobs such as certificates for lawyer, patent attorney, and certified labor attorney. 	1–9	Head Office
Office Work (Research Assistants)	No required major (Only bachelor's degree is required.)	 Research administration Preferred are those with certificates related to MOT (Management of Technology) such as Korea Certified Valuation Analyst and Technology Transfer Agent. Preferred are those with certificates in the computer area such as web design, GTQ, and SW coding. 	1–9	Head Office or regional divisions

^{*} Research assistants: Workforce coming under the open positions for unlimited contracts acknowledged by the Korean government.

^{**} Details about major regional divisions (locations): See our official Website (www.kitech.re.kr).

X Type of employment: Permanent (full-time)



Category	Description		
General	 A person whose eligibility is not suspended as per Article 33 (Grounds for Disqualification) of the 「State Public Officials Act」, Article 82 (Employment Restrictions on Public Organization Employees Dismissed for Corruption) of the 「Act on Anti-Corruption and the Establishment and Operation of the Anti-Corruption & Civil Rights Commission」, or other relevant laws. Completed military duty or exempted from it Not disqualified from traveling abroad Meets relevant eligibility and not disqualified from working in the advertised location Do not apply if you do not meet the relevant eligibility requirements. Estimated date of the start of work: July 1, 2018 (May be deferred for up to 30 days (1 month)) 		
Research (Ph.D)	 Five or more theses/dissertations and/or patent registrations (within seven years of the day of job advertisement) More than one journal where the applicant is the main author (including corresponding author) or participating author required Academic thesis accepted 		
Research (Masters)	O Two or more theses/dissertations and/or patent registrations (within seven years of the day of job advertisement)		
Other	 Extra credit for veterans and people with disabilities upon submission of support document(s) pursuant to the relevant law Preference for eligible female candidates 		



Recruitment Process

Research

서류심사 Document Review 전공면접 Technical Interview 종합면접 General Interview



Administration

NCS기반필기평가... NCS-based Written Assessments (Occupational Basic Competency Certification, Job Performance Assessment)



* From the NCS-based written assessments, the job performance assessment will be based on a technical assessment of technology policy.



Required Documents

Category	Document		
General	 Certificate of graduation Copy of the proof of veteran status and/or disability (if applicable) Certificate of experience/employment (if applicable) Copy of license (if applicable) All documents submitted are used to identify and determine the applicant's eligibility for job requirements and preference. All applicants will be subject to blind recruitment across the entire selection process. 		
Research	Research outcome Upload proof.		



Submission and Inquiries

- Submission period: From March 15 (THU) until 18:00, March 31 (SAT), 2018
 - We do not accept documents by post or in person. Please note that your documents may not be properly submitted on the day of the deadline due to heavy traffic. Please submit your documents before the day of the deadline.
- Submit online by visiting the Korea Institute of Industrial Technology recruiting page (http://recruit.kitech.re.kr).
 - * Documents: Please refer to the above required documents to apply.
- Inquiries: Please direct any job and recruitment inquiries to the Korea Institute of Industrial Technology at recruit@kitech.re.kr or 🏗 041-589-8626.

■ Other

- Interview by video conference is available for overseas applicants (for technical and final interviews).
- Applicants selected in the process will be contacted individually. (Notifications will be made via contact information provided in the application.)

- Career experience to be provided in the application should be confined to full-time positions for which certificate of experience or employment can be issued.
- No applicant may be selected if the Institute cannot find an eligible candidate.
- Original copies of supporting documents (certificates of academic degree, achievements (thesis, dissertation, patent registration, etc.), license, etc.) are to be submitted at the final interview.
- Upon acceptance to the Institute, official career experience will be determined based on the information provided in the application. Any disadvantage caused by the omission of or failure to provide correct information will be borne by the applicant.
- The applicants whose information is confirmed as fraudulent or who are deemed inadequate or ineligible in a security check will be disqualified and their acceptance will be canceled.
- The applicants who have not yet but are scheduled to graduate must submit a relevant certificate supporting their academic qualification within three months of employment. Failure to submit will result in the cancelation of employment.