

Recruitment for Research positions at College of Engineering, UNIST

□ Information on Eligibility and Contract

Position	Field	Quota	Detailed information	
Researcher	Manufacturing Engineering (Prof. Namhun Kim)	1	Main Tasks	<ul style="list-style-type: none"> - Operate and monitor 3D printers and machining tools (Prototyping, Machines operation and management etc.) - Provide 3d printing technical support (Reverse Engineering, 3d modeling, Prototyping, etc.)
			Eligibility	Applicants who have earned B.S degree or higher in natural sciences and engineering.
			Preferences	Experience in 3D printers operation
			Term	2021.08.01. ~ 2022.07.31.
			Working hours	<ul style="list-style-type: none"> - The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	₩2,500,000
Post-Doc Researcher	Control System of Unmanned Aerial Vehicles and Mechatronics (Prof. Hungsun Son)	1	Main Tasks	<p>*Main tasks can be all or part of the job descriptions listed below</p> <ul style="list-style-type: none"> - Development of operating software and control algorithm of Multicopter UAVs - Mechatronics and control applications - Electric motor (bldc) and esc motordriver - Embedded hardware design and software development
			Eligibility	Holding or expected to hold a PhD degree at the point of appointment
			Preferences	At least one paper published as the first author in internationally well-known journals in relevant the field
			Term	2021.08.01. ~ 2022.07.31.
			Working hours	<ul style="list-style-type: none"> - The five-day week - Working Hour 9:00~18:00 - Break 12:00~13:00
			Monthly wage	₩3,000,000
Post-Doc Researcher	Nanomaterial-based sensors/ FET sensors (Prof. Heungjoo Shin)	1	Main Tasks	<p>*Main tasks can be all or part of the job descriptions listed below.</p> <ul style="list-style-type: none"> - Development of nanomaterial-based gas and environmental sensors - Development of Micro FET sensors - Synthesis and characterization of nanomaterials for use as sensors - Design and fabrication of micro/nano-sized sensors
			Eligibility	PhD degree in related fields
			Preferences	Research experience in closely related fields
			Term	2021.08.01. ~ 2022.07.31.
			Working hours	<ul style="list-style-type: none"> - The five-day week - Working Hour 9:00~18:00 - Break 12:00~13:00
			Monthly wage	₩2,600,000

Position	Field	Quota	Detailed information	
Post-Doc Researcher	Robotics and Rehabilitation Engineering (Prof. Sang Hoon Kang)	1	Main Tasks	Conducting research on rehabilitation robots and/or neuromechanics, including tests with subjects
			Eligibility	A PhD degree in related field (Science & Engineering, and Health Science)
			Preferences	<ul style="list-style-type: none"> - Ph.D. degree holders in fields related to robotics, rehabilitation engineering or neuromechanics such as science and engineering - Experience in conducting research on subjects with rehabilitation robots or engineering devices - At least one paper published as the first author in internationally well-known journals in relevant the field
			Term	2021.07.16. ~ 2022.07.15.
			Working hours	<ul style="list-style-type: none"> - The five-day week - Working Hour 9:00~18:00 - Break 12:00~13:00
			Monthly wage	2,800,000 WON
Post-Doc Researcher	Computational Mechanics (Prof. Hayoung Chung)	1	Main Tasks	Research on multiphysics topology optimization
			Eligibility	<ul style="list-style-type: none"> - Ph.D. degree - One or more publications in SCI journals as the first author within the past three years
			Preferences	<ul style="list-style-type: none"> - Proficiency in English - Three or more publications in SCI journals as the first author throughout the research career - Familiarity with stochastic topology optimization
			Term	2021.08.01. ~ 2022.07.31.
			Working hours	<ul style="list-style-type: none"> - Five-day in a week - Working hours: 9:00 ~ 18:00 - 1 hr break 12:00 ~ 13:00
			Monthly wage	3,000,000 KRW
Researcher	Mechanical Engineering (Prof. Joonbum Bae)	1	Main Tasks	<ul style="list-style-type: none"> - Research on wearable systems for tele-operation - Research on quadruped robots for tele-operation
			Eligibility	<ul style="list-style-type: none"> - Research experience on design and control of quadruped robots - BS degree holder
			Preferences	Research experience on design and control of quadruped robots
			Term	2021.07.16. ~ 2021.09.30.
			Working hours	<ul style="list-style-type: none"> - The five-day week - Working 9:00~15:00 - Break 12:00 ~ 13:00
			Monthly wage	1,139,050 KRW
Post-Doc Researcher	Mechanical engineering /Materials science/Chemistry (Prof. Hoon Eui Jeong)	1	Main Tasks	Research on adhesive materials for wearable devices, stimuli-responsive materials, functional polymers, nanocomposites, anti-fouling materials, and wetting/droplet control
			Eligibility	A PhD degree in related field
			Preferences	<ul style="list-style-type: none"> - Proven research experience in closely related fields with strong paper publication records - Good and logical English writing ability
			Term	2021.08.01.-2022.07.31.
			Working hours	<ul style="list-style-type: none"> - The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	3,000,000 WON

Position	Field	Quota	Detailed information	
Researcher	Computational Solid mechanics (Prof. Hayoung Chung)	1	Main Tasks	Research on particle based methods for discontinuous materials
			Eligibility	- Master or higher degree in mechanical engineering of related discipline (should be awarded at time of appointment)
			Preferences	- Research experience in closely related field - Programming experience - one or more publication records (including conference presentation)
			Term	2021.08.01. - 2022.02.28.
			Working hours	- The five-day week - working 10:00 ~ 18:00 - Break time 12:00 ~13:00
			Monthly wage	1,594,670 KRW
Researcher	Manufacturing process (Prof. Hyung Wook Park)	1	Main Tasks	Research on manufacturing processes
			Eligibility	BS Degree in the related field or BS candidate expected to graduate at August 2021
			Preferences	Research experience in closely related field
			Term	2021.09.01 ~ 2022.02.28.
			Working hours	- Five-day week - Working hour 09:00~14:00 - Break 12:00 ~ 13:00
			Monthly wage	1,000,000 KW
Post-Doc Researcher	Non-destructive Evaluation for Concrete (Prof. Myoungsu Shin)	1	Main Tasks	Development of Monitoring Technology for Pre-cast Concrete Using Non-destructive Assessment Techniques
			Eligibility	- Holding a PhD degree at the point of appointment - At least 3 SCI(E) paper published as the 1 st author for the last three years
			Preferences	Research experience in closely related field
			Term	2021.09.01. ~ 2022.08.31.
			Working hours	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	2,500,000 Won
Post-Doc Researcher	Center for Dimension-Controlable Organic Framework (Prof. Jong-Beom Baek)	1	Main Tasks	Research on Analysis and Synthesis of porous organic network polymers
			Eligibility	A PhD degree in related field
			Preferences	Research experience in closely related field
			Term	2021.08.01. ~ 2022.07.31.
			Working hours	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	₩3,000,000

Position	Field	Quota	Detailed information	
Researcher	Enzyme and Protein Engineering (Prof. YongHwan Kim)	1	Main Tasks	Purification of Enzyme and Protein
			Eligibility	Engineering a Bachelor's and Master Degree in related fields
			Preferences	Research experience in closely related field
			Term	2021.08.01. ~ 2022.07.31.
			Working hours	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	₩3,000,000
Researcher	Seawater Resources Technology Research Center (Prof. Yunseok Choi)	1	Main Tasks	- Equipment building, Enterprise support - Performance management
			Eligibility	- Bachelor or higher degree. - Any major
			Preferences	- Science and engineering preferential treatment - Experienced preferential treatment
			Term	- 2021.07.16. ~ 2022.07.15. *contract will be yearly basis and can be extended up to 2 years.
			Working hours	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	- (Before Tax) 2~3 Milion Won a Month
Researcher	Marine environmental specialized battery (Prof. Yunseok Choi)	1	Main Tasks	- Research on Material Design & Analysis based on the Organic/Inorganic Chemistry - Battery design & manufacturing and testing
			Eligibility	- Bachelor or higher degree. - Any major
			Preferences	- Science and engineering preferential treatment - Experienced preferential treatment
			Term	- 2021.07.16. ~ 2021.07.15.
			Working hours	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	- (Before Tax) 2~3 Milion Won a Month
Post-Doc Researcher	Energy (Prof. Ji-Hyun Jang)	1	Main Tasks	Research on Analysis and Synthesis of photoanodes
			Eligibility	A PhD degree in related field
			Preferences	Research experience in closely related field
			Term	2021.07.16. ~ 2022.07.15.
			Working hours	- Working: 9:00~18:00 - Break: 12:00 ~ 13:00
			Monthly wage	₩2,700,000
Post-Doc Researcher	Simulation on OER, ORR, HER (Prof. Ji-Hyun Jang)	1	Main Tasks	Simulation regarding OER, HER, and ORR (DFT, MD)
			Eligibility	A PhD degree in related field
			Preferences	Research experience in closely related field
			Term	2021.07.16. ~ 2022.07.15.
			Working hours	- Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	₩2,700,000/month

Position	Field	Quota	Detailed information	
Post-Doc Researcher	Heat transfer and CFD (Prof. In Cheol Bang)	1	Main Tasks	Research on heat pipe technology for innovative small modular reactors
			Eligibility	A PhD degree in heat transfer and related field
			Preferences	Research experience in heat transfer and closely related field
			Term	2021.08.01. ~ 2022.07.31.
			Working hours	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
Monthly wage	3,000,000 WON			

※ Notice

- 1) No preference given to age or sex
- 2) A Ph.D. for Postdoctoral Researcher is required
- 3) Applicants can apply to only one field
- 4) Candidates may be selected for employment and may be hired according to their rankings if other vacancies in the same field become available within six months of appointment
- 5) Career or qualifications in each fields' requirement or preferred conditions must be supported with proofs such as certificates. In case submitted proofs are confirmed as false documents, acceptance can be cancelled.
- 6) Salary can be changed depending on experiences in the field through discussion. Extra payment may occur.
- 7) Details of the contract can be revised by mutual consent with the Project PI

□ Document Submission and Screening

○ Application period: 2021.06.16. ~ 07.01., 24:00 (*Korean time standard)

○ How to apply

- The submitted documents are converted into one PDF file (after scanning) and sent by e-mail(invitation-ns@unist.ac.kr)
- File name: 「Position-Recruitment Area: OOO(Applicant name)」
- Applications should be received by 24:00 on the due date(Korean time standard)

○ Documents to be submitted

Position	Submission documents	Remarks
Post-doc researcher	1) Applicant Form 2) Research Plan 3) Self introduction 4) Agreement to provide personal information to third parties	- Required documents - Refer to attachment
Researcher /Research Assistant	1) Applicant Form 2) Job and research performance report 3) Self introduction 4) Agreement to provide personal information to third parties	

- When filling out the application form, the relevant documents must be prepared in advance. Successful applicants will be canceled due to erroneous input. All responsibility for harm lies with the applicant
- According to blind employment, there is to be no submission of photograph, school name, name of advisor, credit, family relationship, family name, date of birth, and physical condition.

○ Selection: Document Screening, Interview Screening

- If there is no qualified person, the original number of candidates may be reduced or not selected.
- Those who are eligible for work protection are given additional points according to related laws (5% or 10% of the perfect scores by stage)
- Additional points are granted to the disabled in order to promote employment of persons with disabilities (5% of perfect scores by stage)

○ Final appointment

- Under article 33 of the National Civil Service Act regarding the disqualification conditions of the appointment of national civil services, successful candidates who are applicable of the disqualification conditions or failed in physical examination will be excluded from appointment.
- Persons whose identity has been identified as a result of an inquiry and a survey of candidates for recruitment (final interview candidates) in accordance with the original rules may be canceled through discussion.
- If a person is found to have a final appointment and has been found to have submitted false information, application forgery, or fraudulent employment, the appointment may be canceled as per Article 33 of the Civil Service Act.
- If an unsuccessful candidate wishes to retrieve one's application document, request can be made within 2 weeks of announcement.

Recruitment Schedule

Step	Schedule	Remarks
Application Period	2021.06.16. ~ 07.01.	~24:00 on 2021.07.01.
Documents review	2021.07.05.	Announcement of successful candidates: 2021.07.06.
Interview	2021.07.08.	Announcement of successful candidates: 2021.07.09.
Appointment	2021.07.16. ~	

*Schedules are subject to change.

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Contract

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