

# 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	<b>Main Tasks</b>	<ul style="list-style-type: none"> <li>- Operate and monitor 3D printers and machining tools (Prototyping, Machines operation and management etc.)</li> <li>- Provide 3d printing technical support (Reverse Engineering, 3d modeling, Prototyping, etc.)</li> </ul>
			<b>Eligibility</b>	Applicants who have earned B.S degree or higher in natural sciences and engineering.
			<b>Preferences</b>	Experience in 3D printers operation
			<b>Term</b>	2021.07.01. ~ 2022.06.30.
			<b>Working hours</b>	<ul style="list-style-type: none"> <li>- The five-day week</li> <li>- Working 9:00~18:00</li> <li>- Break 12:00 ~ 13:00</li> </ul>
<b>Monthly wage</b>	₩2,500,000			
Post-Doc Researcher	Control System of Unmanned Aerial Vehicles and Mechatronics (Prof. Hungsun Son)	1	<b>Main Tasks</b>	<p>*Main tasks can be all or part of the job descriptions listed below</p> <ul style="list-style-type: none"> <li>- Development of operating software and control algorithm of Multicopter UAVs</li> <li>- Mechatronics and control applications</li> <li>- Electric motor (bldc) and esc motordriver</li> <li>- Embedded hardware design and software development</li> </ul>
			<b>Eligibility</b>	Holding or expected to hold a PhD degree at the point of appointment
			<b>Preferences</b>	At least one paper published as the first author in internationally well-known journals in relevant the field
			<b>Term</b>	2021.07.01. ~ 2022.06.30.
			<b>Working hours</b>	<ul style="list-style-type: none"> <li>- The five-day week</li> <li>- Working Hour 9:00~18:00</li> <li>- Break 12:00~13:00</li> </ul>
<b>Monthly wage</b>	₩3,000,000			
Researcher	Educational Technology (Prof. Sung Youb Kim)	1	<b>Main Tasks</b>	Designing and planning innovation projects, strategy research and performance analysis
			<b>Eligibility</b>	Master's degree in Educational Technology or Education related field
			<b>Preferences</b>	<ul style="list-style-type: none"> <li>- The experienced in the Center for Teaching &amp; Learning(CTL)</li> <li>- The experienced in the operation of education innovation programs</li> </ul>
			<b>Term</b>	2021.07.01. ~ 2022.06.30. *contract will be yearly basis and can be extended up to 2 years.
			<b>Working hours</b>	<ul style="list-style-type: none"> <li>- The five-day week</li> <li>- Working 9:00~18:00</li> <li>- Break 12:00~13:00</li> </ul>
<b>Monthly wage</b>	₩3,000,000			

Position	Field	Quota	Detailed information	
Post-Doc Researcher	Nanomaterial-based sensors/ FET sensors  (Prof. Heungjoo Shin)	1	<b>Main Tasks</b>	*Main tasks can be all or part of the job descriptions listed below. - 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
			<b>Eligibility</b>	PhD degree in related fields
			<b>Preferences</b>	Research experience in closely related fields
			<b>Term</b>	2021.07.01. ~ 2022.06.30.
			<b>Working hours</b>	- The five-day week - Working Hour 9:00~18:00 - Break 12:00~13:00
			<b>Monthly wage</b>	₩2,600,000
Post-Doc Researcher	Robotics and Rehabilitation Engineering  (Prof. Sang Hoon Kang)	1	<b>Main Tasks</b>	Conducting research on rehabilitation robots and/or neuromechanics, including tests with subjects
			<b>Eligibility</b>	A PhD degree in related field (Science & Engineering, and Health Science)
			<b>Preferences</b>	- 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
			<b>Term</b>	2021.06.16. ~ 2022.06.15.
			<b>Working hours</b>	- The five-day week - Working Hour 9:00~18:00 - Break 12:00~13:00
			<b>Monthly wage</b>	2,800,000 WON
Post-Doc Researcher	Geotechnical Engineering, Transportation Engineering  (Prof. Byungmin Kim)	1	<b>Main Tasks</b>	- Research on UAV and image processing based on machine learning - Research on identifying defects in pavement
			<b>Eligibility</b>	A PhD degree in related field
			<b>Preferences</b>	- Research experience in closely related field - Ability to write and communicate in English
			<b>Term</b>	2021.07.01. ~ 2022.06.30
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	4,000,000 won

Position	Field	Quota	Detailed information	
Researcher	Geotechnical Earthquake Engineering (Prof. Byungmin Kim)	1	<b>Main Tasks</b>	Research on ground motion propagation simulations and recording earthquake motions and ambient noises
			<b>Eligibility</b>	M.S. degree in related field
			<b>Preferences</b>	- Research experience in closely related field - Ability to write and communicate in English
			<b>Term</b>	2021.07.01. ~ 2021.8.31
			<b>Working hours</b>	- The five-day week - Working 9:00~15:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	1,400,000 won
Post-Doc Researcher	Eco-friendly construction materials (Prof. Sukhoon Pyo)	1	<b>Main Tasks</b>	Research on high performance concrete using industrial byproducts
			<b>Eligibility</b>	A PhD degree in related field
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.09.01. ~ 2022.08.31.
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	3,000,000 KRW
Researcher	Urban analytics (Prof. Jeongseob Kim)	1	<b>Main Tasks</b>	Analysis on the sensory perception and place experience of commercial streets
			<b>Eligibility</b>	Bachelor degree in related field (civil engineering or urban engineering etc.)
			<b>Preferences</b>	Experience in data management and analysis
			<b>Term</b>	2021.07.01. ~ 2022.02.28.
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	2,000,000 Won
Researcher	Research projects (Prof. Kyunghwa Cho)	1	<b>Main Tasks</b>	Research on analysis of inland water samples
			<b>Eligibility</b>	A MS degree in science or engineering field
			<b>Preferences</b>	- A MS degree in engineering field - Fluent in English
			<b>Term</b>	2021.07.01. ~ 2021.11.30.
			<b>Working hours</b>	- The five-day week - Working 13:00 ~ 17:30 - Break 15:00 ~ 15:30
			<b>Monthly wage</b>	1,000,000won

Position	Field	Quota	Detailed information	
Post-Doc Researcher	Remote sensing (Prof. Jungho Im)	1	<b>Main Tasks</b>	- Satellite-based forest applications - Satellite-based heatwave research - Artificial intelligence-based applications
			<b>Eligibility</b>	- PhD in science and engineering - Minimum 2 SCI papers for the last three years
			<b>Preferences</b>	- Experience in AI-based research - Experience in remote sensing (>3 years)
			<b>Term</b>	2022.01.01. ~ 2022.08.31.
			<b>Working hours</b>	- The five-day week - Working 09:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	₩2,500,000
Post-Doc Researcher	Center for Dimension- Controlable Organic Framework (Prof. Jong-Beom Baek)	1	<b>Main Tasks</b>	Research on Analysis and Synthesis of porous organic network polymers
			<b>Eligibility</b>	A PhD degree in related field
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.07.01. ~ 2022.06.30.
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	₩3,000,000
Researcher	Enzyme and Protein Engineering (Prof. YongHwan Kim)	1	<b>Main Tasks</b>	Purification of Enzyme and Protein
			<b>Eligibility</b>	Engineering a Bachelor's and Master Degree in related fields
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.07.01. ~ 2022.06.30.
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	₩2,500,000
Researcher	Seawater Resources Technology Research Center (Prof. Yunseok Choi)	1	<b>Main Tasks</b>	- Equipment building, Enterprise support - Performance management
			<b>Eligibility</b>	- Bachelor or higher degree. - Any major
			<b>Preferences</b>	- Science and engineering preferential treatment - Experienced preferential treatment
			<b>Term</b>	- 2021.06.16. ~ 2022.06.15. *contract will be yearly basis and can be extended up to 2 years.
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	- ( Before Tax) 2~3 Milion Won a Month

Position	Field	Quota	Detailed information	
Researcher	Metabolic engineering (Prof. Sung Kuk Lee)	1	<b>Main Tasks</b>	Research on general applied microbiology & gene cloning
			<b>Eligibility</b>	A BS degree in related field
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.07.01. ~ 2021.08.31.
			<b>Working hours</b>	- The five-day week - Working 9:00~14:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	1,110,000 won
Researcher	Marine environmental specialized battery (Prof. Yunseok Choi)	1	<b>Main Tasks</b>	- Research on Material Design & Analysis based on the Organic/Inorganic Chemistry - Battery design & manufacturing and testing
			<b>Eligibility</b>	- Bachelor or higher degree. - Any major
			<b>Preferences</b>	- Science and engineering preferential treatment - Experienced preferential treatment
			<b>Term</b>	- 2021.06.16. ~ 2021.06.15.
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	- ( Before Tax) 2~3 Milion Won a Month
Post-Doc Researcher	Sustainable Process Analysis, Design, and Engineering (Prof. Hankwon Lim)	1	<b>Main Tasks</b>	- Process design and optimization - Computational fluid dynamics
			<b>Eligibility</b>	A PhD degree in related field
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.06.16. ~ 2022.06.15.
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	₩3,500,000
post doctoral associate	Energy (Prof. Ji-Hyun Jang)	1	<b>Main Tasks</b>	Research on Analysis and Synthesis of photoanodes
			<b>Eligibility</b>	A PhD degree in related field
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.06.16. ~ 2022.06.15.
			<b>Working hours</b>	- Working: 9:00~18:00 - Break: 12:00 ~ 13:00
			<b>Monthly wage</b>	₩2,700,000
Post-Doc Researcher	Simulation on OER, ORR, HER (Prof. Ji-Hyun Jang)	1	<b>Main Tasks</b>	Simulation regarding OER, HER, and ORR (DFT, MD)
			<b>Eligibility</b>	A PhD degree in related field
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.06.16. ~ 2022.06.15.
			<b>Working hours</b>	- Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	2,700,000/month

Position	Field	Quota	Detailed information	
Post-Doc Researcher	Heat transfer and CFD (Prof. In Cheol Bang)	1	<b>Main Tasks</b>	Research on heat pipe technology for innovative small modular reactors
			<b>Eligibility</b>	A PhD degree in heat transfer and related field
			<b>Preferences</b>	Research experience in heat transfer and closely related field
			<b>Term</b>	2021.07.01. ~ 2022.06.30.
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	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
- 8) For Research administration and educational technology field, contract will be yearly basis and can be extended up to 2 years.

□ Document Submission and Screening

○ Application period: 2021.05.17. ~ 06.01., 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](mailto: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	2021.05.17. ~ 06.01.	~24:00 on 2021.06.01.
Documents review	2021.06.03.	Announcement of successful candidates: 2021.06.04.
Interview	2021.06.07.	Announcement of successful candidates: 2021.06.08.
Appointment	2021.06.16. ~	

\*Schedules are subject to change.

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## Contract

- Ulsan Institute of Science and Technology (UNIST) College of Engineering
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