

Recruitment for Research positions at College of Engineering, UNIST

I Recruitment Schedule

Process	Schedule	Remarks
Application Period	2021.07.15. ~ 07.30.	~24:00 on 2021.07.30.
Documents review	2021.08.03.	Announcement of successful candidates: 2021.08.04.
Interview	2021.08.06.	Announcement of successful candidates: 2021.08.09.
Appointment	2021.08.16. ~	

*Schedules are subject to change.

II Application and Screening

- Application period: 2021.07.15. ~ 07.30., 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.

III Field and Eligibility

Position	Field	Quota	Detailed information	
Post-Doc Researcher	Control System of Unmanned Aerial Vehicles and Mechatronics (Prof. Hungsun Son)	1	Main Tasks	*Main tasks can be all or part of the job descriptions listed below - 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	2021.09.01. ~ 2022.08.31.
			Working hours	- The five-day week - Working Hour 9:00~18:00 - Break 12:00~13:00
			Monthly wage	₩3,000,000

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	2021.08.16. ~ 2022.08.15.
			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	2021.09.01. ~ 2022.08.31.
			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
Post-Doc Researcher	3D Printing and Artificial Intelligence (Prof. Im Doo Jung)	1	Main Tasks	<ul style="list-style-type: none"> - 3D Printing Process Development - 3D Printing Material Development - AI for Machine
			Eligibility	Doctor's degree holder
			Preferences	<ul style="list-style-type: none"> - Python Coding Experience over 3 year - Nano particle synthesis - 3D Printing Experience
			Term	2021.08.16. ~ 2022.08.15.
			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	₩3,000,000
Post-Doc Researcher	Data Assimilation (Prof. Myong-In Lee)	1	Main Tasks	<ul style="list-style-type: none"> - Research for Data Assimilation - Development and Improvement for the coupled data assimilation system
			Eligibility	<ul style="list-style-type: none"> - a Ph.D. in science and engineering / prospective recipient of a Ph.D. in August 2021 - Publication of 3 SCI paper for the last three years
			Preferences	<ul style="list-style-type: none"> - Experience in seasonal forecasting system of KMA operation - Experience in R&D project for data assimilation
			Term	2021.09.01. ~ 2022.08.31
			Working hours	<ul style="list-style-type: none"> - The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	4,200,000 WON

Position	Field	Quota	Detailed information	
Post-Doc Researcher	Sustainable urban planning (Prof. Gi-Hyoung Cho)	1	Main Tasks	Traffic safety evaluation using VR technique)
			Eligibility	A Ph.D. degree in urban planning/transportation planning
			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	₩3,000,000~3,500,000
Researcher	Science Walden (Prof. Jaewon Cho)	1	Main Tasks	Research on Science and Arts Convergence; Interpretation of Gamification with art platform
			Eligibility	Master Degree in Engineering and Arts fie
			Preferences	Experiences in Convergence Projects in Science, Humanities, and Arts
			Term	2021.09.01. ~ 2022.2.28.
			Working hours	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	2,000,000 Won
Post-Doc Researcher	Non-destructive Evaluation for Concrete (Prof. Gun Kim)	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	2021.09.01. ~ 2022.08.31.
			Working hours	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	₩3,000,000
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	- 2021.08.16. ~ 2021.08.15.
			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

Position	Field	Quota	Detailed information	
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	2021.08.16. ~ 2022.08.15.
			Working hours	- Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	₩2,700,000/month
Post-Doc Researcher	Perovskite PV (Prof. Jin Young Kim)	1	Main Tasks	Research on Perovskite Photovoltaics
			Eligibility	A PhD degree in related field
			Preferences	Research experience in related fields
			Term	2021.08.16.~2022.08.15
			Working hours	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			Monthly wage	₩ 3,000,000
Post-Doc Researcher	Transparent c-Si Solar Cells (Prof. Kwan Yong Seo)	2	Main Tasks	- Design and Fabrication of c-Si solar module - Fabrication of transparent c-Si solar cells
			Eligibility	- Ph.D in related research field - At least 1 SCI paper (1st author) in 3 years
			Preferences	- Expert in transparent c-Si solar cells - Fluent in English
			Term	2021.09.01. ~ 2022.02.28.
			Working hours	- The five-days in a week - Working : 9:00~18:00 - Break : 12:00 ~ 13:00
			Monthly wage	2,500,000 won
Post-Doc Researcher	Center for Synthesis of Polymer Optical Nano/Micro-architectures (Prof. Jiseok Lee)	1	Main Tasks	Fabrication of polymer-based sensor by printing process, Development of sensor performance evaluation
			Eligibility	A PhD degree in Chemical Engineering field
			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	₩1,850,000
Post-doc Researcher	Sustainable Process Analysis, Design, and Engineering (Prof. Hankwon Lim)	1	Main Tasks	- Process design and optimization - Computational fluid dynamics
			Eligibility	A PhD degree in related field
			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	₩3,500,000
Post-doc Researcher	Cell design and fabrication of high temperature stable seawater battery (Prof. Youngsik Kim)	1	Main Tasks	Cell design and fabrication of high temperature stable seawater battery
			Eligibility	Ph.D in related research field
			Preferences	Fluent in English
			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	₩2,300,000

Position	Field	Quota	Detailed information	
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	2021.08.16. ~ 2022.08.15.
			Working hours	- Working: 9:00~18:00 - Break: 12:00 ~ 13:00
			Monthly wage	₩2,700,000
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	2021.09.01. ~ 2022.08.31.
			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

IV Contact

- College of Engineering, Ulsan National Institute of Science and Technology (UNIST)
 - Tel: +82 052 217-1803, invitation-ns@unist.ac.kr
 - Address: U203, Bldg.108, Unist-gil 50, Eonyang-eup, Ulju-gun, Ulsan