

# Recruitment for Research positions at College of Engineering, UNIST

Information on Eligibility and Contract

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. <ul style="list-style-type: none"> <li>- Development of nanomaterial-based gas and environmental sensors</li> <li>- Development of Micro FET sensors</li> <li>- Synthesis and characterization of nanomaterials for use as sensors</li> <li>- Design and fabrication of micro/nano-sized sensors</li> </ul>
			<b>Eligibility</b>	PhD degree in related fields
			<b>Preferences</b>	Research experience in closely related fields
			<b>Term</b>	2021.05.01. ~ 2022.04.30.
			<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>	₩2,600,000
Post-Doc Researcher	System Control / Autonomous Driving / Smart Sensor Network  (Prof. Cheolhyeon Kwon)	1	<b>Main Tasks</b>	<ul style="list-style-type: none"> <li>- Autonomous driving key technology development including but not limited to perception, motion planning, and control</li> <li>- Integrated autonomous driving platform implementation and main S/W &amp; H/W module integration</li> <li>- A.I. and control theory integrated algorithm development and demonstration</li> <li>- Smart sensor module development and design</li> </ul>
			<b>Eligibility</b>	<ul style="list-style-type: none"> <li>- Doctor's degree holder</li> <li>- Publishing at least one paper during recent 3 years</li> </ul>
			<b>Preferences</b>	<ul style="list-style-type: none"> <li>- Smart sensor module and/or autonomous vehicle related research and development experience</li> <li>- A.I. related research experience</li> <li>- Journal/conference publication record and/or patent</li> <li>- S/W development experience with diverse programming Language</li> </ul>
			<b>Term</b>	2021.05.01. ~ 2022.04.30.
			<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>	₩4,000,000

Position	Field	Quota	Detailed information	
Post-Doc Researcher	Control System of Unmanned Aerial Vehicles and Mechatronics (Prof. Hungsun Son)	1	<b>Main Tasks</b>	*Main tasks can be all or part of the job descriptions listed below <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>	2021.05.01. ~ 2022.04.30.
			<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	Assist in government projects (Prof. Namhun Kim)	1	<b>Main Tasks</b>	<ul style="list-style-type: none"> <li>- Assist in government projects</li> <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>	<ul style="list-style-type: none"> <li>- Experience in government project research</li> <li>- Experience in 3D printers operatio</li> </ul>
			<b>Term</b>	2021.05.01. ~ 2022.04.30.
			<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	Semiconductor materials and devices (Prof. Tae-Sik Yoon)	1	<b>Main Tasks</b>	Research on semiconductor materials and devices for nonvolatile memory, MOSFET, neuromorphic devices
			<b>Eligibility</b>	<ul style="list-style-type: none"> <li>- A PhD degree in related field</li> <li>- A person who has published at least one SCI-level paper in the last 3 years(1st author or corresponding author only)</li> </ul>
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.05.01. ~ 2022.04.30.
			<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>	₩2,800,000

Position	Field	Quota	Detailed information	
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>	2021.05.01. ~ 2022.04.30
			<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
Post-Doc Researcher	Sustainable Process Analysis, Design, and Engineering (Prof. Hankwon Lim)	1	<b>Main Tasks</b>	- ML/AI/CPS based process analysis - Prognostics and health management
			<b>Eligibility</b>	A PhD degree in related field
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.05.01. ~ 2022.04.30.
			<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
Post-Doc Researcher	Quantum Dot (Prof. Jin Young Kim)	1	<b>Main Tasks</b>	Research on Next Generation Quantum Dot Display
			<b>Eligibility</b>	A PhD degree in related field
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.05.01.~2022.04.30
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	₩3,300,000
Post-Doc Researcher	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>	2021.05.01. ~ 2021.04.30.
			<b>Working hours</b>	- The five-day week - Working 9:00~18:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	₩2,800,000
Researcher	Energy and chemical engineering (Prof. Hyunhyub Ko)	1	<b>Main Tasks</b>	Fabrication of multifunctional electronic skin sensors
			<b>Eligibility</b>	A bachelor's degree in related field
			<b>Preferences</b>	Research experience in closely related field
			<b>Term</b>	2021.05.01. ~ 2021.08.31.
			<b>Working hours</b>	- The five-day week - Working 10:00~16:00 - Break 12:00 ~ 13:00
			<b>Monthly wage</b>	₩1,150,000

**※ 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 field, contract will be yearly basis and can be extended up to 2 years.

## □ Document Submission and Screening

○ Application period: 2021.03.16. ~ 31., 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	2021.03.16. ~ 31.	~24:00 on 2021.03.31.
Documents review	2021.04.02.	Announcement of successful candidates: 2021.04.05.
Interview	2021.04.06. ~ 07.	Announcement of successful candidates: 2021.04.09.
Appointment	2021.04.16. ~	

\*Schedules are subject to change.

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## Contract

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  - Address: U203, Bldg.108, Unist-gil 50, Eonyang-eup, Ulju-gun, Ulsan