

UNIST Energy and Chemical Engineering Researcher Recruitment

I Candidates and Eligibility

Recruitment Area & Position		No. of persons recruited	Career level	Responsibility & Eligibility
Seawater Resources Technology Research Center	Researcher (Technical Research Personnel)	1	Entry-level / experienced	<ul style="list-style-type: none"> ○ Research on Material Design and Analysis based on the Organic / Inorganic Chemistry ○ Developing novel materials and designing devices ○ Those who have M.S. degree (up to) in science and engineering or those who complete the Combined M.S and Ph.D program ○ Those who can complete a military service until 35 ages [Preferential] Research experience in a closely related field
	Post-Doc	2		<ul style="list-style-type: none"> ○ Major in Material Design and Analysis based on the Organic / Inorganic Chemistry ○ Development novel materials and designing devices ○ A PhD degree in related field or PhD candidate who is expected to graduate by August of 2020 [Preferential] Research experience in a closely related field
Functional Nanomaterials and Devices Laboratory	Researcher (Technical Research Personnel)	1		<ul style="list-style-type: none"> ○ Development of Flexible device & physics sensor ○ Those who have M.S. degree (up to) in science and engineering or those who complete the Combined M.S and Ph.D program ○ Those who can complete a military service until 35 ages [Preferential] Research experience in a closely related field
	Post-Doc	3		<ul style="list-style-type: none"> ○ Development of Flexible sensor based on polymer nanocomposites ○ A PhD degree in related field or PhD candidate who is expected to graduate by August of 2020 [Preferential] Research experience in a closely related field
Low -Dimensional Materials & Energy Conversion Lab	Researcher (Technical Research Personnel)	1		<ul style="list-style-type: none"> ○ Synthesis of high-quality large area two-dimensional atomic crystals ○ Analysis of Optoelectronic devices based on 2D material ○ Those who have M.S. degree (up to) in science and engineering or those who complete the Combined M.S and Ph.D program ○ Those who can complete a military service until 35 ages [Preferential] ○ Research experience in a closely related field: Materials/Chemistry/Chemistry Engineering/Electrical Engineering/Physics/Vacuum deposition/ Synthesis of 2D material
NESM (Nano Energy Storage Materials Lab)	Post-Doc	1		<ul style="list-style-type: none"> ○ Research on Si complex material synthesis with CVD and cell evaluation ○ Development of Si anode materials, secondary batteries ○ A PhD degree in related field or PhD candidate who is expected to graduate by August of 2020
Next Generation Energy laboratory	Post-Doc	1		<ul style="list-style-type: none"> ○ Perovskite solar battery, Organic solar cells' material & Device ○ Major in Energy Engineering/ Chemistry
	Researcher	1		<ul style="list-style-type: none"> ○ (Researcher) A B.S. degree in related field ○ (Post-Doc) A PhD degree in related field or PhD candidate who is expected to graduate by August of 2020
Kyu' s Molecular	Post-Doc	4	<ul style="list-style-type: none"> ○ Molecular Modeling and Simulation 	

Modeling and Simulation Lab				<ul style="list-style-type: none"> ○ A PhD degree in related field (Chemical Engineering) or PhD candidate who is expected to graduate by August of 2020 ○ Organic Synthesis, Organic solar cells material Synthesis, Device Design
Renewable Energy and Nanoelectronics Laboratory	Post-Doc	1		<ul style="list-style-type: none"> ○ A PhD degree in related field [Preferential] ○ at least 3 years of verifiable experiences at the institute
Sustainable Process Analysis, Design and Engineering Lab	Post-Doc	1		<ul style="list-style-type: none"> ○ Process design, optimization, economic analysis ○ Process analysis based on ML/AI/CPS ○ Computational fluid dynamics (COMSOL/Ansys/Barracuda) ○ A PhD degree in related field
Laboratory for Energy Harvesting Materials and Systems (LEHMS)	Post-Doc	1		<ul style="list-style-type: none"> ○ halide perovskite materials synthesis & Device processing ○ Research experience in a closely related field : Materials/Chemistry/Physics ○ A PhD degree in related field : Materials Engineering/Chemistry/Chemistry Engineering
Laboratory for Soft Material Nanophysics	Researcher	1		<ul style="list-style-type: none"> ○ Analysis of Data & Study on Production of Polymer thin ○ A B.S. degree in related field

※ Notice

- 1) The number of applicants can be reduced if there is no qualified person
- 2) Candidates can be selected as candidates for employment, and candidates can be hired according to the candidates' rankings if the candidates for recruitment are found out or there are vacancies in the same field within six months of appointment.

II Contract

○ Contract period: 2020. 09.01 – 2021. 08.31 (1 years)

※ NESM (Nano Energy Storage Materials Lab): 2020. 09. 01 ~ 2021. 01. 31 (5 months)

※ Laboratory for Soft Material Nanophysics: 2020. 09. 01 ~ 2020. 12. 31 (4 months)

※ Next Generation Energy laboratory (for researcher): 2020. 09. 01 ~ 2021. 02. 28 (6 months)

※ Kyu's Molecular Modeling and Simulation Lab: 2020. 09. 01 ~ 2021. 02. 28 (6 months)

※ Sustainable Process Analysis, Design and Engineering Lab : 2020. 10. 01 ~ 2021. 09. 30 (1 years)

○ Working hours: 5 days a week (Mon–Fri), 8 hours a day (9: 00 – 18: 00)

※ Next Generation Energy laboratory (for researcher)' working hours : 5 days a week (Mon-Fri), 3 hours a day (14:00-17:00)

※ Laboratory for Soft Material Nanophysics' working hours : 5 days a week (Mon-Fri), 3 hours a day (09:00-12:00)

○ Salary: Negotiations after interview

III Reasons for Exclusion, Restriction of Support Age, and Others

- exclusion
 - Eligible physical examination or reasons for disqualification of employment under Article 33 of the National Civil Service Act. Those who have been rejected as a result are 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 be false, application forgery, or fraudulent employment is found, the appointment may be canceled if a reason for disqualification under Article 33 of the Civil Service is found.
- No age limit
- For men, military uniform or exemption
- Other
 - Photo registration, school name, credit, family relations, family name, date of birth, and physical condition are not allowed in the application form due to blind employment.
 - Those who are eligible for work protection are given additional points according to related laws (5% or 10% of the perfect scores by stage)
 - In case of the disabled, additional points are granted to promote employment of persons with disabilities (5% of perfect scores by stage)
 - You must be able to work immediately after appointment.

IV Document Receipt and Selection Method

- Recruitment notice and documents submission period
: 2020.08.05.(Wed) - 2020.08.19. (Wed) 24:00 (15 days)
- Document Receipt Method
 - Recruiter E-mail: alleysi@unist.ac.kr

- Documents to be submitted: Application form, self-introduction letter, personal information third party, job and research performance report, research plan(only post-doc), career certificate
- 1 copy of each written offer agreement (see attached form)

※ How to apply

- The submitted documents are converted into PDF files (after scanning) and sent by e-mail.
- Subject: “Support for UNIST Energy and Chemical Engineering Researcher Recruitment_ Recruitment Area & Position: OOO”
- Note: Applications should be received by 24:00 on the due date

- 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 no entry of photograph, school name, credit, family relationship, family name, date of birth, and physical condition.
- The following contents and conditions are also prohibited from the application: Name of school, family relationship, date of birth, person, and body
- Selection Method: Document Screening, Interview

Type of screening	Description	No. of candidates to be selected
Document Screening	Screening of the Application Form and the Self Introduction	Within 5 times the number of persons to be recruited
Interview	Evaluation of the candidate's research performance and speciality in related field	1 time the number of person to be recruited
Appointment	Completion/submission of documents required for appointment	

- If there are no qualified candidates for the screening process, the applicants may be reduced or not selected.
- Employment protection subjects will be granted additional points

according to the related laws (5% or 10% of the perfect scores)

- In case of disabled persons, granting points by type to promote employment of persons with disabilities (5% of total marks by type)

○ Recruitment candidate

- Job candidates are selected within the scope of the number of applicants in the order of the high score of the interview.
- If there is no qualified person as a result of the interview, the original number of candidates may be reduced or not selected.
- Criteria for Handling Successful Candidates by Ties
 - . In case of tie in each stage of the selection, (priority) veterans, (priority) persons with disabilities, (Priority 3) High school graduates, (Priority 4) Non- metropolitan area talents, (Priority 5) Higher English test scores (Priority 6)

※ If there is no qualified person, applicants may not be selected.

○ Final appointment

- If there are no special matters after conducting an identity check and hiring examination for public officials, hiring candidates will be finally hired.
- The appointment can be canceled if false facts are found in the documents submitted after the final appointment has been confirmed and appointed, or if the reason for disqualification under Article 33 of the National Civil Service Act is found.

V **Recruitment Schedule**

○ Schedule

- Application Submission: 2020.08.05. (Wed) – 2020.08.19. (Wed) 24:00 (15 days)
- Announcement of successful applicants: 21 Aug, 2020(Fri)
- Interview: 25 Aug, 2020(Tue),scheduled

- Announcement of Candidates for Job Interview: 26 Aug, 2020(Wed),scheduled
- Appointment scheduled for: 1st Sep., 2020(scheduled)
- ※ We will only inform the result of Job Interview for successful candidates

VI **Contact**

- Ulsan Institute of Science and Technology (UNIST) ECHE Administrative office
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