

# 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	B.S. M.S.	2	<ul style="list-style-type: none"> <li>○ Major in Material Development and Analysis based on the Organic / Inorganic Chemistry</li> <li>○ Major in Prototyping and Evaluation of Startup/ Prototype</li> <li>○ Major in Circuit and Electricity</li> <li>○ (Researcher:BS) A B.S. degree in related field</li> <li>○ (Researcher:M.S) A M.S. degree in related field</li> <li>○ (Post-Doc) A PhD degree in related field [Preferential]</li> <li>○ Research experience in a closely related field</li> </ul>
	Post-Doc		1	
Low-Dimensional Materials & Energy Conversion Lab	Post-Doc	solar cells	1	<ul style="list-style-type: none"> <li>○ Studies on Perovskite solar cells , Organic-Inorganic Hybrid solar cells, Organic solar cells</li> <li>○ Studies on water oxidation, hydrogen evolution, CO2 conversion/utilization</li> <li>○ A PhD degree in related field [Preferential]</li> <li>○ Research experience in a closely related field: Materials/Chemistry/Chemistry Engineering/Electrical Engineering/Physics/Vacuum deposition</li> </ul>
		Electrochemistry., Electro catalysts	1	
Energy Materials Lab	Administrative researcher		1	<ul style="list-style-type: none"> <li>○ Management of the research project</li> <li>○ Major in Science and Engineering</li> </ul>
Bio-inspired Functional Materials Lab.	Post- Doc		1	<ul style="list-style-type: none"> <li>○ Studies on the utilization of CO and CO2 using enzymes and inorganic catalysts</li> <li>○ A PhD degree in related field [Preferential]</li> <li>○ Materials Science and Engineering, Chemical Engineering, Chemistry, Energy Engineering</li> </ul>
Electrochemistry Lab for Energy and Environment (ELEE)	Researcher		1	<ul style="list-style-type: none"> <li>○ Electrocatalysis for CO<sub>2</sub> reduction, IC analysis</li> <li>○ A B.S. degree in related field</li> </ul>
Gunslab	Researcher		1	<ul style="list-style-type: none"> <li>○ Major in Fuel Cells / Metal air battery</li> <li>○ Major in Chemical Engineering, Chemistry,,Materials Science, Mechanical engineering</li> <li>○ A B.S. degree in related field [Preferential]</li> <li>○ Research experience in a closely related field</li> </ul>
Quantum Materials for Energy Conversion Lab	Post- Doc		1	<ul style="list-style-type: none"> <li>○ Research experience in the measure of In-situ X-ray, ARPES of Oxide</li> <li>○ Studies on DFT calculation, Oxide (about Ferroelectric, Battery)</li> <li>○ A PhD degree in related field</li> </ul>
	Administrative researcher		1	<ul style="list-style-type: none"> <li>○ Management of the research project [Preferential]</li> </ul>

Biochemical Engineering Lab	Research Professor	1	Experienced	<ul style="list-style-type: none"> <li>○ Research experience in a closely related field</li> <li>○ Biochemical Engineering</li> <li>○ Industrial Organic Acid Producing Strains and process development</li> <li>○ A PhD degree in related field and at least 10 years of verifiable experiences at the institute</li> </ul>
Sustainable Process Analysis, Design and Engineering Lab	Post- Doc	2	Entry-level/experienced	<ul style="list-style-type: none"> <li>○ Process design/ Biz model</li> <li>○ Catalyst/Reaction Engineering, Reactor design</li> <li>○ Process analysis based on ML/AI/CPS</li> <li>○ Comsol/Ansys/Barracuda</li> <li>○ Prognostics and Health Management</li> <li>○ (Post-Doc) A PhD degree in related field</li> <li>○ (Research Assistant Professor) at least 2 years of verifiable experiences at the institute</li> </ul>
	Research Assistant Professor	1		<p>[Preferential]</p> <ul style="list-style-type: none"> <li>○ Research experience in a closely related field</li> </ul>
Advanced Tech-Optoelectronic Materials Synthesis Lab	Post-Doc	1	Entry-level/experienced	<ul style="list-style-type: none"> <li>○ Studies on solar cells materials/devices, Energy Engineering/ Chemistry</li> <li>○ A PhD degree in related field</li> </ul>

※ **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. 04 – 2021. 04 (1 years)

※ Contract period of Bio-inspired Functional Materials Lab. : 2020.5.1.~ 2021.4.30

※ Contract period of Electrochemistry Lab for Energy and Environment (ELEE): 2020.4.16.~ 2021. 8.15

※ Contract period of Gunslab: 2020.4.16.~ 2021. 8. 31

※ Contract period of Biochemical Engineering Lab : 2020.5.16. ~ 2020.10.15

※ Contract period of Sustainable Process Analysis, Design and Engineering Lab(Research Assistant Professor): 2020. 6. 1 ~ 2021. 5. 31

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

※ Electrochemistry Lab for Energy and Environment (ELEE)' working hours : 5 days a week (Mon-Fri), 2 hours a day

○ 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  
: 2020.03.05. (Thu) - 2020.03.19. (Thu) 24:00 (15 days)
- Document Receipt Method
  - Recruiter E-mail: [alleysi@unist.ac.kr](mailto:alleysi@unist.ac.kr)

- Documents to be submitted: Application form, self-introduction letter, personal information third party, research plan(only post-doc, research (assistant) professor), C.V.(only research (assistant) professor), 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 3 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
Committee Deliberation	Deliberation of the final appointment	only Research (Assistant) Professor
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: 2020.03.05. (Thu) - 2020.03.19. (Thu) 24:00 (15 days)
- Announcement of successful applicants: 24 Mar, 2020(Tue)

- Interview: 27 Mar, 2020(scheduled)
- Announcement of Candidates for Job Interview: 31 Mar, 2020(scheduled)
- Appointment scheduled for: 16 Apr, 2020(scheduled)

## **VI** **Contact**

- Ulsan Institute of Science and Technology (UNIST) ECHE Administrative office
  - Tel: (052) 217-3545, alleysi@unist.ac.kr
  - Address: No. 50, 104-dong 401-10, Unist-gil, Eonyang-eup, Ulju-gun, Ulsan