

2022-3rd Researcher Recruitment for College of Natural Sciences

I Candidates and Eligibility

| No. | Position/Research field | Expected number of people | Main Task, Eligibility and preferences |
|--------|--|---------------------------|---|
| CHM3-1 | Post-Doctoral Researcher -Gas phase spectroscopy or atomic and molecular physics (PI. BumSuk Zhao) | 1 | <p>[main task]</p> <ul style="list-style-type: none"> ○ Perform research projects on manipulating molecules using optical standing waves and grazing incidence matter wave optics (controlling molecular motions with molecule-field or molecule-surface interactions) <p>[Eligibility]</p> <ul style="list-style-type: none"> ○ Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) ○ must have more than 2 SCI publications in relevant fields in the last five years <p>[Preferences]</p> <ul style="list-style-type: none"> ○ Related research experience |
| CHM3-2 | Post-Doctoral Researcher - 2D Materials (PI. Hyeon Suk Shin) | 1 | <p>[main task]</p> <ul style="list-style-type: none"> - Perform research project <p>[Eligibility]</p> <ul style="list-style-type: none"> - Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) - must have more than 1 SCI(E) papers within recent 5 years <p>[Preferential]</p> <ul style="list-style-type: none"> - Related research experience - Preferential treatment for experienced researchers |
| CHM3-3 | Post-Doctoral Researcher - Material Chemistry and Catalysis Lab. (PI. Sang Hoon Joo) | 1 | <p>[main task]</p> <ul style="list-style-type: none"> ○ Research on analysis, synthesis, and application of electrocatalysts <p>[Eligibility]</p> <ul style="list-style-type: none"> ○ Ph.D. Degree in related field <p>[Preferential]</p> <ul style="list-style-type: none"> ○ Research experience in closely related field |
| CHM3-4 | Post-Doctoral Researcher - Bioinorganic Chemistry (PI. Jaeheung Cho) | 1 | <p>[main task]</p> <ul style="list-style-type: none"> ○ Perform research project - Synthesis of 1st row transition metal complexes - Spectroscopic characterization and reactivity studies <p>[Eligibility]</p> <ul style="list-style-type: none"> ○ Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) <p>[Preferential]</p> <ul style="list-style-type: none"> ○ Preferential treatment for experienced researchers ○ more than 1 SCI(E) papers within recent three years ○ Preferential for those who can speak English |
| CHM3-5 | Post-Doctoral Researcher - Material Chemistry (PI. Hyunchul Oh) | 1 | <p>[main task]</p> <ul style="list-style-type: none"> - Metal-organic frameworks (MOFs) synthesis and physical properties analysis - Analysis of gas adsorption for CO₂, H₂, CH₄ capture - Hydrogen isotope separation - Magneto-caloric effect study <p>[Eligibility]</p> <ul style="list-style-type: none"> - Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) <p>[Preferential]</p> <ul style="list-style-type: none"> - Preferential treatment for experienced researchers - more than 1 SCI(E) papers within recent three years - Preferential for those who can speak English and Korean as well fluently |

| | | | |
|---------|--|---|---|
| CHM-3-6 | Post-Doctoral Researcher - Synthetic Organic Chemistry (Pl. Sung You Hong) | 1 | <p>[main task]</p> <ul style="list-style-type: none"> Perform organic synthesis – preparation of paper(s), patent(s) or report(s) <p>[Eligibility]</p> <ul style="list-style-type: none"> Ph.D. Degree 2 or more publications in organic synthesis(First author) <p>[Preferential]</p> <ul style="list-style-type: none"> Related research experience Fluent English |
| MIH-3-1 | Post-Doctoral Researcher - Mathematics (Pl. Yunho Kim) | 1 | <p>[main task]</p> <ul style="list-style-type: none"> Perform research project including research paper writing Lab research activities <ul style="list-style-type: none"> Scheduling of and participating in lab research meetings and seminars Monitoring and reporting research activities of lab graduate students <p>[Eligibility]</p> <ul style="list-style-type: none"> Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) Expertise related to any of the following areas: Analysis, Numerical Methods <p>[Preferential]</p> <ul style="list-style-type: none"> Programming experience in Machine Learning or Image Processing |
| MIH-3-2 | Post-Doctoral Researcher - Mathematics (Pl. Bongsoo Jang) | 1 | <p>Research field</p> <ul style="list-style-type: none"> Numerical analysis of fractional system and dynamical applications <p>[main task]</p> <ul style="list-style-type: none"> Perform research project including research paper writing and numerical simulation Lab research activities <ul style="list-style-type: none"> Scheduling of and participating in lab research meetings and seminars Monitoring and reporting research activities of lab graduate students <p>[Eligibility]</p> <ul style="list-style-type: none"> Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) Expertise related to any of the following areas: Scientific Computation, Numerical Analysis, Dynamics, Machine Learning <p>[Preferential]</p> <ul style="list-style-type: none"> At least 1 published (or accepted for publication) SCI(E) paper within recent three years for each applied research field. |
| RD-2 | Post-Doctoral Researcher - Mathematics Sciences (Pl. Youngae Lee) | 1 | <p>[main task]</p> <ul style="list-style-type: none"> Perform your own research Collaborate with Analysis group Help organizing Seminars and Conferences <p>[Eligibility]</p> <ul style="list-style-type: none"> Ph.D. degree holder in Math Publication: at least 1 article in SCI(E) for the last 3 years <p>[Preferential]</p> <ul style="list-style-type: none"> Strong background in Partial Differential Equations or related fields (Differential geometry, Functional Analysis, Harmonic Analysis, etc.) |

※ Notice

1) Applicants can apply to only one field

- 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.
- The criteria for accreditation of official English grades are limited to those published within 2 years of the application deadline
- In the absence of suitable candidates, nobody can be selected.
- There might be primary candidates, so they can be hired with rankings among them in cases such as one of them gives up on the recruitment or there being vacancy in the same field within 6 months.
- UNIST discloses the number of relatives hired according to the government's recruitment system for public institutions.

II

Contract

| No | Position | Principal Investigator | Term | Working hours | Monthly pay (Pre-tax basis) | working place |
|---------|--------------------------|------------------------|---------------------------|---|-----------------------------|-----------------|
| CHM-3-1 | Post-Doctoral Researcher | Bum Suk Zhao | 2022.04.01. ~ 2023.03.31. | - The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00 | ₩2,500,000 | Bldg. 103 UNIST |
| CHM-3-2 | Post-Doctoral Researcher | Hyeon Suk Shin | 2022.04.01. ~ 2023.03.31. | - The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00 | ₩2,500,000 | Bldg. 101 UNIST |
| CHM-3-3 | Post-Doctoral Researcher | Sang Hoon Joo | 2022.04.01. ~ 2022.08.31. | - The five day Week - Working Hour 09:30~18:30 - Recess 12:00 ~ 13:00 | ₩2,400,000 | Bldg. 108 UNIST |
| CHM-3-4 | Post-Doctoral Researcher | Jaeheung Cho | 2022.04.01. ~ 2022.08.31. | - The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00 | ₩2,500,000 | Bldg. 108 UNIST |
| CHM-3-5 | Post-Doctoral Researcher | Hyunchul Oh | 2022.04.01. ~ 2023.03.31. | - The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00 | ₩2,500,000 ~ ₩3,500,000 | Bldg. 103 UNIST |
| CHM-3-6 | Post-Doctoral Researcher | Sung You Hong | 2022.04.01. ~ 2023.03.31. | - The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00 | ₩2,800,000 | Bldg. 109 UNIST |
| MHT-3-1 | Post-Doctoral Researcher | Yunho Kim | 2022.04.01. ~ 2023.03.31. | - The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00 | ₩4,500,000 | Bldg. 108 UNIST |
| MHT-3-2 | Post-Doctoral Researcher | Bongsoo Jang | 2022.04.01. ~ 2023.03.31. | - The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00 | ₩2,500,000 ~ ₩3,500,000 | Bldg. 108 UNIST |
| RD-2 | Post-Doctoral Researcher | Youngae Lee | 2022.05.01. ~ 2023.04.30. | - The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00 | ₩2,800,000 | Bldg. 108 UNIST |

- 1) Researchers are contracted for up to one year and can be re-signed through evaluation.
- 2) The place of work may be changed depending on internal circumstances
- 3) Salary can be changed depending on experiences in the field through discussion Extra payment may occur
- 4) Detail of contract can be revised by mutual consent with the Research PI.

III

Document Submission and Screening

- Recruitment notice and documents submission period
 - From 23 February, 2022 to 10 March, 2022 @ 24:00
 - Only applications that arrived during the period are Valid.
- Document Submission: Recruiter [E-mail\(inforam@unist.ac.kr\)](mailto:inforam@unist.ac.kr)
 - ※ How to apply
 - The submitted documents are converted into one PDF file (after scanning) and sent by e-mail.
 - Subject: 「Position-Recruitment Area: OOO(Applicant name)」
 - Note: Applications should be received by 24:00 on the due date(Korean Time)
- Documents to be submitted

| Position | Submission documents | Remarks |
|---------------------|--|---|
| Post-doc researcher | 1) Applicant Form 2) Self introduction 3) Agreement to provide personal information to third parties | - Required documents - Refer to attachment |

- ※ 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.

○ Screening & Other Information

| Screening Stage | how to select |
|---------------------|---|
| Document Screening | Evaluate the suitability of recruitment area, select 5 times the number of candidates that the opening in order of the highest total score. ※ Evaluation Standard(Score) - Post-Doctoral Researcher: Self instruction(50), Job competencies(50) |
| Interview Screening | Evaluation of research performance and specialties and job performance ability in recruitment area ※ Evaluation Standard(Score) - Post-Doctoral Researcher: Job competencies(30), Development potential(30), Suitability for UNIST(20), Basic ability(20) |

○ 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, of 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
- **Police Clearance Certificate must be submitted before joining UNIST.**

IV Recruitment Schedule

| Step | Schedule | Remarks |
|--------------------|---------------------------|--|
| Application Period | 2022.02.23. ~ 2022.03.10. | ~24:00 on 2022.03.10. |
| Documents review | 2022.03.11. ~ 2022.03.15. | Announcement of successful candidates: 2022.03.15. |
| Interview | 2022.03.16. ~ 2022.03.23. | Announcement of successful candidates: 2022.03.23. |
| Appointment | 2022.04.~ | |

※ Schedules are subject to change.



Contact

- Ulsan Institute of Science and Technology(UNIST)
 - Academic & Students Affairs Team, College of Natural Sciences
(☎ : +82-52-217-1885, e-mail : inforam@unist.ac.kr)
 - Address: No. 50, 108-dong 701-12, Unist-gil, Eonyang-eup, Ulju-gun, Ulsan