

2021-1st Researcher Recruitment for College of Natural Sciences

I Candidates and Eligibility

No.	Position/Research field	Expected number of people	Main Task, Eligibility and preferences
MIH-1-1	Post-Doctoral Researcher Mathematics/ Sciences (Prof. Hae-sang Sun)	3	<p>[main task]</p> <ul style="list-style-type: none"> Perform your own research Collaborate with Hae-sang Sun, Jaehyun Cho, Chol Park Help organizing Seminars and Conferences <p>[Eligibility]</p> <ul style="list-style-type: none"> Must possess Ph.D. in Math before the starting date. <p>[Preferences]</p> <ul style="list-style-type: none"> Strong background in Number Theory or related fields (Algebraic geometry, Representations Theory, Harmonic Analysis) more than 1 SCI(E) papers within recent 6 years
PHY-1-1	Post-Doctoral Researcher Physics (Prof. Hyeong-Ryeol Park)	1	<p>[main task]</p> <ul style="list-style-type: none"> Perform magnetic measurements using a VSM & a SQUID Calculate the magneto-caloric effect from the thermomagnetization curves Set up the equipments for magneto-plasmonics and perform the related experiments <p>[Eligibility]</p> <ul style="list-style-type: none"> Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) <p>[Preferences]</p> <ul style="list-style-type: none"> Preferential treatment for experienced researchers more than 3 SCI(E) papers within recent 7 years
CHM-1-1	Post-Doctoral Researcher -Organic&Bioorganic Chemistry (Pl. Ja Hyoung Ryu)	1	<p>[main task]</p> <ul style="list-style-type: none"> perform Organic or Bioorganic Chemistry research project <p>[Eligibility]</p> <ul style="list-style-type: none"> must possess ph.D. degree in Organic Chemistry or Bioorganic Chemistry field must have more than 3 publications in last 5 years <p>[Preferences]</p> <ul style="list-style-type: none"> Related research experience
CHM-1-2	Post-Doctoral Researcher -Gas phase spectroscopy or atomic and molecular physics (Pl. Bum Suk Zhao)	2	<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
GM-1-3	Post-Doctoral Researcher Organic synthesis (Prof. Chol-Min Park)	1	<p>[main task]</p> <ul style="list-style-type: none"> ◦ Perform drug discovery research project ◦ Daily operation of synthesis of organic compounds <p>[Eligibility]</p> <ul style="list-style-type: none"> ◦ must possess Ph.D. degree in organic synthesis field ◦ must have more than 5 SCI publications in last 5 years <p>[Preferences]</p> <ul style="list-style-type: none"> ◦ Related research experience ◦ Fluent English Speakers, also with very good writing skills
GM-1-4	Post-Doctoral Researcher chemistry (Prof. Myoungsoo Nah)	1	<p>[main task]</p> <ul style="list-style-type: none"> ◦ Perform research project -Synthesis of metal-organic framework (MOF) -Investigation of MOF as energy-storage material and catalyst <p>[Eligibility]</p> <ul style="list-style-type: none"> ◦ Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) <p>[Preferences]</p> <ul style="list-style-type: none"> ◦ Preferential treatment for experienced researchers ◦ Preferential for those who can speak English ◦ more than 1 SCI(E) papers within recent 5 years
GM-1-5	Post-Doctoral Researcher chemistry (Prof. Tae-Hyuk Kwon)	1	<p>[main task]</p> <ul style="list-style-type: none"> ◦ Perform research project - Design and synthesis of heteroatom-doped carbon materials - Electrochemical activity analysis of heteroatom-doped carbon materials - Fabrication of heteroatom-doped carbon electrode and energy storage performance analysis <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
GM-1-6	Researcher Organic Chemistry (Prof. Sung You Hong)	4	<p>[main task]</p> <ul style="list-style-type: none"> ◦ Organic Synthesis, Methodology development ◦ Purification of Organic Compounds <p>[Eligibility]</p> <ul style="list-style-type: none"> ◦ Bachelor or Master. Degree (holders or prospective doctoral candidates until the appointment date)

			[Preferential] <ul style="list-style-type: none"> ○ Preferential treatment for experienced researchers ○ Preferential for those who can speak English
CH-M1-7	Post-Doctoral Researcher Physical Chemistry (Prof. Thomas Schultz)	1	[main task] <ul style="list-style-type: none"> ○ Perform research project <ul style="list-style-type: none"> - Perform mass-correlated rotational alignment spectroscopy - Maintain and operate a femtosecond laser system - Further develop high-resolution Fourier-transform rotational spectroscopy [Eligibility] <ul style="list-style-type: none"> ○ Ph.D. Degree in physical chemistry or physics (holders or prospective doctoral candidates until the appointment date) [Preferential] <ul style="list-style-type: none"> ○ Preferential treatment for researcher with relevant experience ○ more than 1 SCI(E) papers within recent three years ○ Preference for candidates with good English skills
RD-1-1	Post-Doctoral Researcher(URS) Chemistry (Prof. Dyoung Min)	1	[main task] <ul style="list-style-type: none"> - Membrane protein expression and purification - Crosslinking chemistry of protein to DNA - Analysis of membrane protein folding with single-molecule methods [Eligibility] <ul style="list-style-type: none"> ○ Ph.D. Degree (holders or prospective doctoral candidates until the appointment date) ○ more than 1 SCI(E) papers within recent three years [Preferential] <ul style="list-style-type: none"> ○ Preferential treatment for experienced researchers
RD-1-2	Postdoctoral Researcher Physics - Computational physics and computational chemistry (Pl. Noejung Park)	1	[Main Task] <ul style="list-style-type: none"> - Perform first-principles computational studies of materials, particularly topological states and transport properties [Eligibility] <ul style="list-style-type: none"> - Must possess Ph.D degree in physics or chemistry. [Preferential] <ul style="list-style-type: none"> - More than 1 of SCI papers in the last 5 years.

※ Notice

1) Applicants can apply to only one field

- 2) 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.
- 3) The criteria for accreditation of official English grades are limited to those published within 2 years of the application deadline
- 4) In the absence of suitable candidates, nobody can be selected.
- 5) 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.

- 6) 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	working place
MTH-0-1	Post-Doctoral Researcher	Hae-sang Sun	2021.03.01.~ 2022.02.28.	- The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00	₩4,150,000	Bldg. 108 UNIST
PHY-1-1	Post-Doctoral Researcher	Hyeong-Ryeol Park	2021.03.01.~ 2022.02.28.	- The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00	₩2,000,000	Bldg. 108 UNIST
CHM-1-1	Post-Doctoral Researcher	Ja Hyoung Ryu	2021.03.16.~ 2022.03.15.	- The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00	₩2,500,000	Bldg. 108 UNIST
CHM-1-2	Post-Doctoral Researcher	Bum Suk Zhao	2021.03.16.~ 2022.03.15.	- The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00	₩2,500,000	Bldg. 103 UNIST
CHM-1-3	Post-Doctoral Researcher	Chol-Min Park	2021.03.16.~ 2021.08.15.	- The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00	₩2,200,000	Bldg. 108 UNIST
CHM-1-4	Post-Doctoral Researcher	Myoungsoo Nah	2021.03.16.~ 2021.08.31.	- The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00	₩2,250,000	Bldg. 108 UNIST
CHM-1-5	Post-Doctoral Researcher	Taehyuk Kwon	2021.03.16.~ 2022.03.15.	- The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00	₩2,500,000	Bldg. 108 UNIST
CHM-1-6	Researcher	Sung You Hong	2021.03.16. ~ 2021.09.15.	- The five day Week - Working Hour: 15 or 20 hours/week - Recess 30minutes	₩684,520 (15 hours/week) ₩915,600 (20 hours/week)	Bldg. 108/104 UNIST
CHM-1-7	Post-Doctoral Researcher	Thomas Schultz	2021.03.16.~ 2022.03.15.	- The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00	₩2,500,000	Bldg. 108 UNIST
RD-1-1	Post-Doctoral Researcher (URS)	Duyoung Min	2021.03.16.~ 2022.03.15.	- The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00	₩2,500,000	Bldg. 108 UNIST
RD-1-2	Post-Doctoral Researcher	Noejung Park	2021.02.16.~ 2022.02.15.	- The five day Week - Working Hour 09:00~18:00 - Recess 12:00 ~ 13:00	₩2,200,000	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 19 January, 2021 to 4 February, 2021 @ 24:00
- Only applications that arrived during the period are Valid.

○ **Document Submission:** Recruiter [E-mail\(mp3to@unist.ac.kr\)](mailto:mp3to@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
Researcher	1) Applicant Form 2) Self introduction 3) 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.**

○ **Screening & Other Information**

Screening Stage	how to select
Document Screening	Evaluate the suitability of recruitment area, select 3 times the number of candidates that the opening in order of the highest total score. ※Evaluation Standard(Score) - Researcher: Self instruction(70), Language Skill(30) - Post-Doctoral: Self instruction(50), Job competencies(50)
Interview Screening	Evaluation of research performance and specialties and job performance ability in recruitment area ※Evaluation Standard(Score) - Researcher: Job competencies(30), Development potential(30), Suitability for UNIST(20), Basic ability(20) - Post-Doctoral: Job competencies(30), Development potential(30), Suitability for UNIST(20), Basic ability(20)

○ **Selection: Document Screening, Interview**

- 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, 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)
- Criteria for Handling Successful Candidates by ties
 - In case of tie 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

- 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.

IV Recruitment Schedule

Step	Schedule	Remarks
Application Period	2021.01.19. ~ 2021.02.04.	~24:00 on 2021.02.04.
Documents review	2021.02.05. ~ 2021.02.10.	Announcement of successful candidates: 2021.02.10.
Interview	2021.02.15. ~ 2021.02.19.	Announcement of successful candidates: 2021.02.19.
Appointment	2021.03.~	

※ Schedules are subject to change.

V Contact

○ Ulsan Institute of Science and Technology(UNIST)

- Academic & Students Affairs Team, College of Natural Sciences

(☎ : +82-52-217-1884, e-mail : mp3to@unist.ac.kr)

- Address: No. 50, 108-dong 701-12, Unist-gil, Eonyang-eup, Ulju-gun, Ulsan