

# Recruitment for School of Natural Science researcher

## I Candidates and Eligibility

Recruitment Area		Expected number of people	Eligibility and Benefits
No.	Recruitment Area / Research field		
PHY -3-1	Postdoctoral Position - Fusion Plasmas Physics	1	<p>[Main task] - Fusion plasma physics research (related to MHD)</p> <p>[Eligibility] - must possess Ph.D. degree in Physics or Nuclear Engineering/ (including a candidate whose PhD degree is to be awarded before the start of spring semester 2020)</p> <p>[Preferential] - Related research experience</p> <p>[Contract period] 2020.06.01.~2021.05.31.(1 year)</p> <p>[Working hours] 5 days a week (Mon-Fri), 8 hours a day (9: 00 - 18: 00)</p> <p>[Working Place] Rm. 513, 510. Bldg. 108</p>
PHY -3-2	Postdoctoral Position - Gravitational-wave data-analysis	1	<p>[Main task] - Perform research project The Center of High Energy Astrophysics (CHEA) of UNIST in collaboration with Sejong University invites applications for a postdoctoral position to work on gravitational wave data-analysis in connection with KAGRA . The goal of this position is the development of a KAGRA pipeline for un-modeled searches from extreme transient events in the Local Universe, such as mergers involving a neutron star, energetic core-collapse supernovae and gamma-ray bursts. The successful candidate will play a leading role in one or several aspects of integration with the KAGRA detector, including but are not limited to GUI-based interfacing and real-time response to triggers from LIGO-Virgo, classification of KAGRA sensitivity by software injections, and providing triggers for high-energy follow-up with future GRB-missions such as THESEUS.</p> <p>[Eligibility] - Candidates are expected to hold a PhD in astrophysics, computer science or closely related field. - The candidate will be working at the Department of Physics and Astronomy at Sejong University. - Special treatment for foreign language (English) fluent</p> <p>[Contract] 2020.06.01.~2021.05.31. (1 year)</p> <p>[Working hours] 5 days a week (Mon-Fri), 8 hours a day (9: 00 - 18: 00)</p> <p>[Working Place] place of work: Sejong University.</p>

PHY -3-3	Postdoctoral Position - Research in Laser-Plasma THz Generation, Theory and Simulations of laser-plasma physics	1	<p>[Main task]</p> <ul style="list-style-type: none"> <li>- PIC simulations of laser-plasma THz generation from a magnetized plasma</li> <li>- Theory and PIC simulations of plasma dipole oscillation generated from colliding electron beams</li> <li>- Publication of SCI(E) papers (at least one per year) in the corresponding field</li> </ul> <p>[Eligibility]</p> <ul style="list-style-type: none"> <li>- must possess Ph.D. degree in laser-plasma theory and simulations</li> <li>- must have more than 2 first-authored publications in SCI(E) journals in last 5 years.</li> <li>- must have at least one first-authored paper in SCI(E) journals in the field of THz generation from laser-plasma interactions</li> <li>- must have experience in plasma simulations using EPOCH and cplPIC codes</li> </ul> <p>[Preferential]</p> <ul style="list-style-type: none"> <li>- Related research experience</li> <li>- Preferential treatment for experienced researchers</li> </ul> <p>[Contract period] 2020.07.16 ~ 2021.06.15. (1 year)</p> <p>[Working hours] 5 days a week (Mon-Fri), 8 hours a day (9: 00 - 18: 00)</p> <p>[Working Place] Bd. 108, SRC Post-doc office on the 5th floor</p>
CHEM -3-1	Postdoctoral Position - Inorganic/materials Chemistry	2	<p>[Main task]</p> <ul style="list-style-type: none"> <li>- Perform experimental research project</li> </ul> <p>[Eligibility]</p> <ul style="list-style-type: none"> <li>- must possess Ph.D. degree in chemistry or related fields</li> <li>- must have more than 3 publications in last 5 years</li> </ul> <p>[Contract] 2020.06.01.~2021.05.31. (1 year)</p> <p>[Working Place] Bd.108. room 704</p>
CHEM -3-2	MS Researcher - Interdisciplinary chemistry	1	<p>[Main task]</p> <ul style="list-style-type: none"> <li>- Perform multidisciplinary research project</li> </ul> <p>[Eligibility]</p> <ul style="list-style-type: none"> <li>- must possess MS degree in science or engineering fields</li> <li>- Critical reading/writing (English/Korean), data search/analysis, excellent interpersonal communication skills required</li> </ul> <p>[Contract] 2020.06.01.~2021.05.31. (1 year)</p> <p>[Working Place] Bd.108. room 704</p>
CHEM -3-3	BS Researcher - Interdisciplinary Chemistry	1	<p>[Main task]</p> <ul style="list-style-type: none"> <li>- Perform multidisciplinary research project</li> </ul> <p>[Eligibility]</p> <ul style="list-style-type: none"> <li>- must possess BS degree in science or engineering fields</li> <li>- Critical reading/writing (English/Korean), data search/analysis, excellent interpersonal communication skills required</li> </ul> <p>[Contract] 2020.06.01.~2021.05.31. (1 year)</p> <p>[Working Place] Bd.108. room 704</p>

CHEM -3-4	Postdoctoral Position - Gas phase spectroscopy and atomic and molecular physics	1	<p>[Main task]</p> <ul style="list-style-type: none"> <li>- Manipulation of molecules with laser fields</li> <li>- Grazing incidence matter-wave optics (experiment will be done at Fritz Haber Institute in Berlin)</li> </ul> <p>[Eligibility]</p> <ul style="list-style-type: none"> <li>- An applicant should have a doctoral degree</li> <li>- An applicant should have at least 3 SCI published papers relevant</li> </ul> <p>[Contract]2020.06.01.~2021.05.31. (1 year)</p> <p>[Working hours]</p> <ul style="list-style-type: none"> <li>- 5 days a week (Mon-Fri), 8 hours a day (9: 00 - 18: 00)</li> </ul> <p>[Working Place]Bldg. 103, Rm. 401-2</p>
CHEM -3-5	Postdoctoral Position - 2D materials	2	<p>[Main task]</p> <ul style="list-style-type: none"> <li>- Perform research project</li> </ul> <p>[Eligibility]</p> <ul style="list-style-type: none"> <li>- must possess Ph.D. degree in 2D materials field</li> <li>- must have more than 2 publications in last 5 years</li> </ul> <p>[Preferential]</p> <ul style="list-style-type: none"> <li>- Related research experience</li> <li>- Preferential treatment for experienced researchers</li> </ul> <p>[Contract period] 2020.07.01 ~ 2021.06.30.(1 year)</p> <p>[Working hours]</p> <p>5 days a week (Mon-Fri), 8 hours a day (9: 00 - 18: 00)</p> <p>[Working Place] UNIST, Bldg. 101.</p>
CHEM -3-6	Postdoctoral Position - Organic semiconductor based electronic devices/sensors, soft/wearable electronics	1	<p>[Main task]</p> <ul style="list-style-type: none"> <li>- Perform research project</li> </ul> <p>[Eligibility]</p> <ul style="list-style-type: none"> <li>- Must possess Ph.D. degree in natural science or engineering</li> <li>- Must have more than 1 publications in last 3 years</li> <li>- Experience in organic electronics/wearable electronics are preferred</li> </ul> <p>[Contract period] 2020.06.01 ~ 2021.05.31.(1 years)</p> <p>[Working hours]</p> <p>5 days a week (Mon-Fri), 8 hours a day (9: 00 - 18: 00)</p> <p>[Working Place]</p> <p>bldg.108, Room 808</p>
CHEM -3-7	Researcher - Electronic structure calculation	1	<p>[Main task]</p> <ul style="list-style-type: none"> <li>- Oxides electrocatalysts calculation</li> </ul> <p>[Eligibility]</p> <ul style="list-style-type: none"> <li>- BS Degree in Chemistry</li> <li>- experience on DFT calculations</li> </ul> <p>[Contract period] 2020.06.15. ~ 2020.08.14.(2months)</p> <p>[Working hours]</p> <p>5 days a week (Mon-Fri), 4 hours a day (9: 00 - 13: 00)</p> <p>[Working Place]</p> <p>bldg.108, Room 804</p>

#### ※ Notice

- 1) The criteria for accreditation of official English grades are limited to those published within 2 years of the application deadline.
- 2) The number of applicants can be reduced if there is no qualified person
- 3) 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 / Working hours / Salary

- Refer to Notice by Recruitment Area for details.  
(\* Researchers are contracted for up to 1year and can be re-signed through evaluation.)
- It can be changed the contract period to after consultation.
- Salary is based on before tax, there may be some changes to the research project.

## 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

### ○ 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  
: 2020.04.19.(SUN) ~ 2020.05.03.(SUN) 24:00 (15 days)
- Document Receipt Method
  - Recruiter E-mail: (SNS\_recruit@unist.ac.kr)
  - Documents to be submitted: Application form, self-introduction letter, job and research performance record, personal information third party  
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 recruitment of researchers from UNIST SNS 'Recruitment Area or No.' : OOO(Name of the Candidate) "
- Enter publications information [Publication list(SCI) , primary author, corresponding author, Impact Factor etc.]
- 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

	Details
Document review	Evaluate the suitability of recruitment area select 3 times the number of expected employees in order of the highest total score.
Interview	Evaluation of research performance and specialties and job performance ability in recruitment area

- 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 (※There may be some changes to the schedule.)

- Application Submission  
: `20.04.19.(SUN) ~ `20.05.03.(SUN), 24:00(15 days)
- Announcement of successful applicants  
: `20.05.06.(WED) ~ `20.05.08.(FRI)
- Interview: `20.05.11.(MON)~`20.05.10.(FRI)
- Appointment scheduled for: Afrer `20.06.01.(MON)

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

○ Ulsan Institute of Science and Technology (UNIST) School Natural Science administration office.

Tel: (052) 217-3605, SNS\_recruit@unist.ac.kr

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