



## WORK OFFER

Ref. No. KR-2019-UST-009

### Employer Information

**Employer:** UST (KIST-Korea Institute of Science & Technology)  
Seoul  
  
Seoul  
Korea, South

**Website:**  
Location of placement: Seoul  
Nearest airport:  
Working hours per week: 40.0  
Working hours per day: 8.0

**Number of employees:** 908  
**Business or products:** -

### Student Required

**General Discipline:** 26-BIOLOGICAL AND BIOMEDICAL SCIENCES  
40C-CHEMISTRY, MATERIAL SCIENCE, AND  
CHEMICAL ENGINEERING  
Other

**Completed years of study:** 3

**Field of Study:** 26.0202-Biochemistry.  
40.0501-Chemistry, General.  
Chemical Biology (chemistry, biochemistry, cell  
biology, infectious disease)

**Language required:** English Excellent

**Required Knowledge and Experiences:**

**Other requirements:**

### Work Offered

Division of Bio-Medical  
Science & Technology

(Introduction of Laboratory)  
Chemical Proteomics Tool

We are interested in the identification of protein interaction partners of small molecules. To visualize the drug-like small molecule's cellular localizations, our group developed fluorescent photo-crosslinking scaffold. This fluorescent photo-crosslinker can be attached into any functional ligands to explore cellular localization study as well as cellular interactome.

Fluorescence Chemosensor

Fluorescent organic dyes have received considerable attentions for biological imaging. There are two types of fluorescence agents for bio-imaging. First, bright fluorophores have high potential as an imaging tag for endogenous biomolecules, including protein and metabolites. In such classes of compounds, the fluorophores play roles as a signal generator to tracking the biomolecules. On the other hands, a fluorescent molecule that changes its intensity or color has a high potential as a biosensor. Our group interested in a development of novel fluorescence chemosensors for biomolecules and study the mode of actions.

Host-Pathogen Interactions

Chemical proteomics tool and chemosensors were applied in pathogenic bacteria or virus infection model to investigate the mechanism of host-pathogen interactions. We are currently particularly interested in avian influenza virus infection.

(Internship Field)

The internship will be involved in the development of fluorescent probe for proteomics study, fluorescent imaging probe for chemical biology study.

**Number of weeks offered:** 8 - 8  
**Working environment:** Research and development  
**Within the months:** 01-JUL-2019 - 25-AUG-2019  
**Gross pay:** 900,000 KRW / Month  
**Or within:** -  
**Deduction to be expected:** TBD  
**Holidays:** -  
**Payment method / frequency:** /

### Accommodation

**Canteen at work:** Yes

**Expected type of accommodation:** Student dormitory  
**Estimated cost of lodging:** 300,000 KRW / Month

**Accommodation will be arranged by:** UST (KIST-Korea Institute of Science & Technology)  
**Estimated cost of living incl. lodging:** 900,000 KRW / Month

### Additional Information

\*Within the months: July 1, 2019 – August 23, 2019  
\*Gross pay: 1,200,000 KRW / month (Master student)

\*Website: <https://www.ust.ac.kr/eng.do>  
[https://eng.kist.re.kr/kist\\_eng/main/](https://eng.kist.re.kr/kist_eng/main/)  
<http://leegroup.chembiol.re.kr>

### Nomination Information

**Deadline for nomination:** 15-MAR-2019  
**Please send nominations by** Exchange Platform

**Date:** 16-FEB-2019  
**On behalf of receiving country:** Moojin Kim