



## Research fellow, PhD and master candidates in Process Systems Engineering

The CoSPE (Center of Sustainable process engineering; <http://cospe.hknu.ac.kr>) of Hankyong National University in Korea has an opening for research fellow, PhD and Master candidates. The positions will open from **April 1<sup>st</sup>, 2023**.

Hankyong National University (<http://www.hankyong.ac.kr>) is located in the Anseong city about 50 km south from Seoul, Korea. The CoSPE in the Department of Chemical Engineering focuses on modeling, simulation and optimization of chemical and biological processes.

The candidate will be funded with average 1,800 \$/month (in fact, 2,000 kWon/month) for PhD, and 1,400 \$/month (in fact, 1,500 kWon/month) for Master including taxes. Depending on professional career for a **research fellow**, the amount of his grant is adjustable up to 3,500 \$/month (in fact, 4,000 kWon/month). The medical insurance is covered for him and his family under the university condition. The life expense including tuition fee, accommodation, and meals for one person may not exceed to 1,000 kWon/month.

In order to receive consideration for this position, applicants should send the following documents by email to [limyi@hknu.ac.kr](mailto:limyi@hknu.ac.kr):

1) a full CV including the subject name and its score obtained in all courses (i.e., academic transcripts of undergraduate, master, or/and PhD courses), teaching experience (lecture name, duration, etc.), if any, publication lists (master or/and PhD theses, journal publications in English, conference presentations, etc.) and project lists performed so far.

2) cover letter.

3) three professional references (only name, address and email, not their letters).

### **Responsibilities:**

In this position, you will carry out working tasks related to modeling and simulation of chemical and biological processes (especially, **process simulation**, **CFD (computational fluid dynamics)**, and **machine learning**)

### **Key accountabilities include:**

- Scoping modeling and simulation in chemical and biological processes: This task includes modeling of the processes, CFD using ANSYS Fluent or OpenFOAM, process simulation using Matlab or ASPEN Plus/Hysys, and machine learning using Python or Matlab.

- Collaborating with multidisciplinary technical groups and communication skills in **English**.

### **Requirements:**

To be considered for this position, the successful candidate will possess a Master degree (or bachelor degree, or PhD degree) in Chemical Engineering, or a closely related field. It is preferred to possess backgrounds in Process Systems Engineering (PSE). It is desired that you have published several papers in the scientific journals and speak English fluently. **For a candidate applying to the Master course, he (or she) has to continue to the PhD course if there is no special reason.**

See the next page for the entrance due dates to HKNU graduate school.

### **Young-il Lim, Professor**

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## Admission procedure to PhD/Master course of HKNU

The PhD/Master candidates have to prepare the following documents for the admission of the Spring/Fall semester (March – August, or September – February) to Hankyong National University in Korea.

### **Important dates:**

- Application due date to Prof. Young-il Lim for pre-selection: November 15, or May 15 in each year.
- Application due date to graduate school: November 15-20 or May 15-20
- Document screening process: January 5-7, or July 5-7.
- Official acceptance notification: January 15, or July 15.
- Enrollment to Graduate school: January 20-25, or July 20-25.
- Submission of original certificates: by February 15, or by August 15.

### **-Documents to be submitted to Young-il Lim ([limyi@hknu.ac.kr](mailto:limyi@hknu.ac.kr)) by email :**

- Cover letter
- Full CV (curriculum vitae)
- Certificates of graduation in undergraduate, and/or master, and/or PhD courses in English.
- Academic transcripts in undergraduate, and/or master, and/or PhD courses in English.

### **Documents for PhD/Master course application by email by November 15 or May 15:**

1. Application form (provided by HKNU).
2. Recommendation letter by an advisor (from your University).
3. Certificate of graduation in undergraduate and/or master courses (in English).
4. Academic transcripts (or records) in undergraduate and/or master courses (in English).
5. Copy of your passport (or certificate of your birth in English)
6. Certificate of family status (in English)
7. Plan of your study in the PhD/Master course in English (I will send a sample file).
8. Self-introduction in English (your CV).
9. Certificate of the financial guarantee (I will guarantee you and I will make it).

### **Note:**

- An official seal has to be marked on all the certificates.
- Every certificate which is not written in English should be notarized in Korean (or in English) by an authentication office of the applicant country and applicants should send us the original one, and its apostille.
- Sample files or documents provided by HKNU will be sent by email, if you are selected as a candidate.
- You have to apply the visa to Korean Embassy in your country, after your enrollment in January 10, or July 10 in each year.
- In the stage of application to HKNU admission, you can submit all certificates in copy. But, you have to send the originals by airmail to get the visa to Korea.

### **Young-il Lim, Professor**

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