

PhD and master candidates (or research fellow) in Process Systems Engineering

The CoSPE (Center of Sustainable process engineering; <http://www.cospe.or.kr>) laboratory of Hankyong National University in Korea has an immediate opening for two PhD or two Master candidates (or research fellow). The positions will open from **March 1st, 2017**.

Hankyong National University (<http://www.hankyong.ac.kr>) is located at 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 1,600 \$/month (in fact, 1,700 kWon/month) for PhD, and 1,100 \$/month (in fact, 1,200 kWon/month) for Master including taxes. Depending on professional career for research fellow, the amount of his grant is adjustable upto 2,400 \$/month (in fact, 2,500 kWon/month). The medical insurance is covered for him and his family. The life expense including tuition fee, accommodation, and meals may not exceed to 900 kWon/month.

In order to receive consideration for this position, applicants should send the following documents by email to limyi@hknu.ac.kr within **December 15, 2016**:

1) a full CV including the lecture 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 and CFD \(computational fluid dynamics\)](#))

Key accountabilities include:

- Scoping multi-scale simulation starting at the molecular level in chemical and biological processes. This task includes modeling of the processes, CFD using ANSYS Fluent or Comsol Multiphysics, and process simulation using Matlab or ASPEN Plus/Hysys.

-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.

Additional skills preferred:

- Strong self-initiative and technical leadership skills

-Computer programming and development skills related to C, [MATLAB](#), Python, etc.

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

Youngil Lim, Professor

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email: limyi@hknu.ac.kr, homepage: <http://www.cospe.or.kr>

Admission procedure to PhD/Master course at HKNU

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

Important dates:

- Application due date to Prof. Young-il Lim for pre-selection: December 15, or June 15 in each year.
- Application due date to graduate school: December 20-27 or June 20-27
- 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 submitted to Young-il Lim (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 December 20 or June 20:

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 record) in undergraduate and/or master courses (in English).
5. Copy of your passport (or certificate of your birth in English)
6. Plan of your study in the PhD/Master course in English (I will send a sample file).
7. Self-introduction in English (your CV).
8. 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 document 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 25, or July 25 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.

Youngil Lim, Professor

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