

COLLEGE OF ENGINEERING
Department of Chemical Engineering

PUKYONG NATIONAL UNIVERSITY
365, Sinseon-ro, Nam-gu, Busan, Korea 608-739
Telephone: +82-51-629-6453
Fax: +82-51- 629-6429
E-mail: jayliu@pknu.ac.kr

Title: Positions available at Intelligent Systems Lab, Pukyong National University, Korea

Dear all,

We will have one or more positions open for Ph.D students or postdoctoral fellows at the Intelligent Systems Laboratory (ISL, <https://sites.google.com/site/isystemslab>), Department of Chemical Engineering, Pukyong National University (www.pknu.ac.kr) available from September 1st, 2018. The students will be involved in one of my projects regarding the following topics:

- ① **Big Data Analytics and AI**
- ② **Sustainable system design & analysis (e.g., renewable energy production)**
- ③ ***In-silico* design and characterization of molecules**

The projects are supported by Korean governments including Ministry of Education and Ministry of Trade, Industry and Energy.

Successful candidates for the positions will have a strong background in chemometrics, molecular simulation, chemical process simulation, life cycle assessment (LCA), or mathematical programming. In addition, familiarity with commercial/academic software (① Simca-P, R, MATLAB, Python, Tensorflow; ② GAMS, Gabi, Open LCA, SimaPro, Aspen Plus/HYSYS; ③ Gaussian, Amber, NAMD, Gromacs, VMD...) would be an advantage. They also will be fluent in English, have good writing and communication skills, and have reasonable laboratory experience. A Ph.D student will receive a monthly stipend plus tuition fee. A Qualified candidate with PhD degree can start working at ISL as a researcher before September 1st, 2018. Interested applicants should submit a detailed CV, a brief statement of research interests and experience, relevant publications, and letters of recommendation. For any inquiry, feel free to contact me (jayliu@pknu.ac.kr).

Thank you,

J. Jay Liu, Ph.D
Professor, Department of Chemical Engineering
Director, Institute of Cleaner Production Technology
Pukyong National University, Korea