



Department of Chemical Engineering,  
Pukyong National University, Busan, Republic of Korea

April 21, 2026

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

Dear all,

We will have one or more positions open for **postdoctoral fellows** at the Intelligent Systems Laboratory (ISL, <https://sites.google.com/site/isystemslab>), Institute of Cleaner Production, Pukyong National University ([www.pknu.ac.kr](http://www.pknu.ac.kr)) available from **October 1<sup>st</sup>, 2026**. The position will be involved in one of my projects regarding the following topic:

① **Management of chemical processes integrated with multi-energy systems**

- i. Develop data-driven and/or first-principle models for process-integrated energy systems.
- ii. Design control and/or optimization algorithms for the simultaneous management of chemical production and multi-carrier energy dispatch.
- iii. Analyze system performance under volatile energy market conditions.

Successful candidates for the positions will have a strong background in machine learning and/or mathematical programming with PhD degree in Chemical Engineering or Electrical Engineering. In addition, familiarity with one or more following programs would be necessary: Python, Tensorflow, GAMS, or Gurobi. They also will be fluent in English, have good writing and communication skills, and have reasonable research experience. A postdoctoral fellow will receive a salary commensurate with research experience and publication record.

Interested applicants should submit a detailed CV and a brief statement of research interests and experience by July 1, 2026. For any inquiry, feel free to contact me ([jayliu@pknu.ac.kr](mailto:jayliu@pknu.ac.kr)).

Thank you,

A handwritten signature in black ink, appearing to read 'Jay Liu', positioned above a horizontal line.

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