

Faculty Position Announcement
Department of Industrial & Systems Engineering, KAIST

Sep. 1, 2021

The Department of Industrial & Systems Engineering at KAIST invites applications for **tenure-track faculty positions at the levels of Associate/Assistant Professor**. KAIST is a globally renowned science and technology institution, particularly well known for its excellence in engineering and technology. The institute is dedicated to promoting a vibrant academic culture and offers an internationally-minded environment through ways such as teaching all courses in English.

We seek candidates who are genuinely interested in solving complex system design and operations problems in manufacturing and service industries. In this term of invitation, we would like to invite all areas of expertise related to industrial & systems engineering discipline, including (but not limited to) the followings:

- **Optimization:** LP/IP, combinatorial opt., stochastic programming, convex opt., non-linear opt. as well as optimization for machine learning and machine learning for optimization.
- **Statistical methods:** Statistics, data mining/statistical ML, applied statistics such as quality engineering, experimental design, reliability.
- **Manufacturing system engineering:** smart factory, manufacturing system innovation for 2050.
- **Knowledge-based service engineering (KSE):** ML/AI for various KSE domains (financial service, health service, legal service, education service, social welfare and so on). KSE domain researchers (those who have earned doctoral degrees in medicine, healthcare, economics, finance, law, education, social welfare, etc.) with experience and strong willingness in applying ML/AI to the domain are also welcome to apply.
- **System engineering:** Modeling and simulation (incl. discrete event simulation, simulation optimization), domain specific system engineering (energy system, healthcare delivery system, traffic system, other public infra-structures).
- **Human factors:** HCI, AR/VR, Data visualization, ergonomics.
- **Emerging fields** relevant to industrial & systems engineering.

Industrial or academic experience will be considered preferably, and students who are expected to complete their PhDs until Feb. 2022 will also be considered. Application documents along with an up-to-date CV should be sent to:

Professor Hayong Shin
Department of Industrial & Systems Engineering, KAIST
Email: hyshin@kaist.ac.kr

Applications are considered on a rolling basis (reviewed each month) until the positions are filled. We strongly recommend applying at your earliest convenience.

For general information about the Department of Industrial & Systems Engineering at KAIST, please visit <http://ie.kaist.ac.kr> and also <http://kse.kaist.ac.kr>. You can also find out more about KAIST at <http://kaist.ac.kr>. If you have further inquiries regarding this faculty position announcement such as targeting areas, you may contact Prof. Hayong Shin at hyshin@kaist.ac.kr.