Prof. Chan-Woo Lee

Materials AI Laboratory, Dongguk University,
Republic of Korea

Chan-Woo Lee is a professor in the Department of Energy and Materials Engineering at Dongguk University. He received his B.S. and M.S. degrees in Metallurgical Engineering from Hanyang University and his Ph.D. in Materials Science and Engineering from the University of Florida. He then worked as a postdoctoral researcher in the Department of Chemistry at the University of Pennsylvania.

He also worked as a visiting scholar at Oak Ridge National Laboratory and Pacific Northwest National Laboratory, and has served as a member of the Korean delegation to the OECD BNCT Advanced Materials Steering Group.

Before joining Dongguk University, he was a Senior Researcher and Principal Researcher at the Korea Institute of Energy Research, where he founded and led the Energy AI & Computational Science Laboratory. Building on his background in computational materials science and materials AI, his current research focuses on developing AI materials scientists.

Rather than treating AI simply as a tool for materials design, his team works toward AI Materials Scientist systems—teaching computers to imagine, design, and realize new materials. The Materials AI Laboratory develops AI-based methods for materials science, applies them to materials and device design, and connects these efforts to autonomous laboratory validation.