



Department of Materials Science  
& Engineering  
College of Design and Engineering

## ▶ Department Seminar

Dear Colleagues & Students,  
You are cordially invited to a special seminar on

**Date: 9 Feb 2026, Monday**

**Time: 10am – 11am**

**Venue: E7-03-08 - Seminar Room 3, 15 Kent Ridge Cres, Singapore 119276 ( [Map](#) )**

### **3D-Printed Electronics in Biomedical and Agritech Solutions**



***By Prof. Woo Soo Kim***

***Hosted by Asst. Prof. Wu Changsheng***

#### **Abstract:**

This talk will discuss cutting-edge innovations on 3D printed sensing systems poised to advance healthcare monitoring and the agricultural landscape. We will discuss the R&D outcomes from SFU's Additive Manufacturing Lab, where healthcare and agritech technologies serve as critical elements for transformative change. Discover the potential of healthcare and agritech technologies such as 3D-printed ECG monitoring sensors and environmental sensors, which are designed to optimize customized care and agricultural resource allocation. Also, we will cover the realm of physical AI applications using 3D printed devices and robotics in farming and supporting sustainable resource management. The discussion will extend to 3D printed plant sensing systems and their data analytics, which are ushering in a new era of precision agriculture and innovative crop resource management techniques. Join us as we explore a future where 3D-printed devices drive healthcare and agriculture into a more sustainable, productive, and secure future.

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#### **Biography:**

Dr. Woo Soo Kim is Professor at Simon Fraser University (SFU) and Director of Global Institute for Agritech at SFU. He was a Scientific Director of British Columbia Centre of Agritech Innovation. Prior to joining SFU, Dr. Kim worked as a Senior Research Scientist at Xerox Corporation (XRCC) for two years, following his tenure as a Post-doctoral Research Associate at the Massachusetts Institute of Technology (MIT), USA for two and a half years. Dr. Kim holds a BSc degree from Yonsei University (2001) and MSc and PhD degrees from the Korea Advanced Institute of Science and Technology (KAIST) in the Department of Material Engineering. He was recognized with the Quadrant Award 2007 and received Hanwha Corporation's New Faculty Award in 2016. Recently, he received the SFU Graduate Study's Excellence Award 2023 for Graduate Leadership. He is a senior member of IEEE and serves on the editorial boards of journals such as the IEEE Transactions on Electron Devices, IEEE Journal on Flexible Electronics, IOP Flexible and Printed Electronics, and Advanced Sensor Research. His research interests span the broad field of Advanced 3D printed sensors for diverse sensing applications. Webpage: <http://www.sfu.ca/~woosook>, Email: [woosook@sfu.ca](mailto:woosook@sfu.ca).

Looking forward to seeing all of you!