

## 「Developing manufacturing engineers for the '4th industrial revolution' and beyond」

Date : March 18, 2019 (Monday) 18:00~19:30

Venue : Presentation Hall (KMB319), Kambai-kan,  
Imadegawa-campus, Doshisha University<https://www.doshisha.ac.jp/information/campus/imadegawa/overview.html>Speaker : Prof. Tim Minshall  
Head of the Institute for Manufacturing,  
University of Cambridge, Department of Engineering

How do we know what skills will be required of manufacturing engineers in the future? The complexity, systemic nature, and rapid pace of change in manufacturing technologies presents many challenges for the development of the manufacturing workforce in the short, medium, and long term, and this can be clearly seen through the current transformation towards the '4th Industrial Revolution'. This raises numerous challenges for the development of: (1) those currently in the workforce, (2) students currently in full-time education and about to enter the workforce, and (3) children still at the earlier stages of their education. The two broad classes of problems need to be addressed: firstly, what are the skills required? and secondly, how/when can these skills be acquired?

**Tim Minshall** is the inaugural Dr John C Taylor Professor of Innovation at the University of Cambridge, Head of the Institute for Manufacturing (IfM) and Head of the IfM's Centre for Technology Management (CTM). He is also a Visiting Professor at the Institute of Technology, Enterprise and Competitiveness (ITEC) at Doshisha University, and a member of the UK IET's Innovation and Emerging Technologies Policy Panel.

Language (English)  
Admission Free

**Hajime Ohiwa**, a guest commentator, is a professor emeritus of information science at Keio University as well as a fellow of the Information Processing Society of Japan (IPSJ) and former chair of the education committee of IPSJ. In 2017, he established a Research Institute of Collaborative and Creative Information Space as a president.

Institute of Technology, Enterprise And Competitiveness (ITEC)  
Research Institute for STEM Human Resources (RISTEM)