

## Young-Seok Choi, Ph. D. / Prof.



Principle Researcher  
Carbon Neutral Technology R&D Department  
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Professor  
Convergence Manufacturing System Engineering  
(Green Process and Energy System Engineering),  
University of Science & Technology (UST)

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### Summary of Qualifications

- Professional skills and work capabilities: Turbo machinery (fans, compressors, pumps, turbines, and pump-turbines) designs and developments; steady and unsteady numerical analyses; statistical optimization methods; flow measurements and experimental techniques
- Practical hands-on experience for turbo machinery with experimental and analytical investigations
- Published 150+ technical journals on turbo machinery designs and optimizations; 80 patents
- Principal investigator of many government research projects

### Education

- Mar 1990 ~ Feb 1996    **Seoul National University**, Seoul, Korea  
*Ph.D.* in Mechanical Engineering  
Research Advisor: Prof. Shin-Hyoung Kang  
Dissertation: Through-Flow Calculation for Design and Performance Prediction of Centrifugal Compressor
- Mar 1988 ~ Feb 1990    **Seoul National University**, Seoul, Korea  
*M.S.* in Mechanical Engineering  
Research Advisor: Prof. Shin-Hyoung Kang  
Thesis: Numerical Study on Turbulent Flow in a Conical Diffuser
- Mar 1984 ~ Feb 1988    **Seoul National University**, Seoul, Korea  
*B.S.* in Mechanical Engineering

## *Academic Experience*

- Sep 2006 ~ Present     **Professor**  
Convergence Manufacturing System Engineering  
University of Science and Technology, Daejeon, Korea
- Mar 1996 ~ Present     **Principle Researcher**  
Carbon Neutral Technology R&D Department  
Research Institute of Clean Manufacturing System  
Korea Institute of Industrial Technology, Cheonan, Korea
- Sep1993 ~ Aug 1994    **Research Assistant**  
Department of Mechanical Engineering  
Seoul National University, Seoul, Korea

## *Awards & Honors*

- Jan 2023-Present     **President**, The Korean Society of Fluid Machinery (KSFM)
- Dec 2022             **Distinguished Professor Award**, University of Science and Technology (UST) &  
**President's Award**, Korea Industrial Technology Association (KOITA)
- Dec 2022             **Academy Prize**, The Korean Society of Fluid Machinery (KSFM)
- Dec 2020             **Technology Prize**, The Korean Society of Fluid Machinery (KSFM)
- Jan 2017-Dec 2022   **Board Member/Vice-President**, The Korean Society of Fluid Machinery (KSFM)
- Dec 2016             **Prof. Shin-Hyoung Kang Memorial Prize**, The Korean Society of Fluid Machinery (KSFM)
- Jan 2014-Mar 2015   **Chief Director of Chungcheong Area**, Korea Institute of Industrial Technology (KITECH)
- Nov 2013             **Excellence Award for Science & Technology Research Paper**,  
The Korean Federation of Science and Technology Societies (KOFST)
- Sep 2012-Present    **Asian Fluid Machinery Committee (AFMC) Member**
- Sep 2012-Present    **Asian Fluid Machinery Committee (AFMC) Member**
- Apr 2011             **Excellence Award for Science & Technology Research Paper**,  
The Korean Federation of Science and Technology Societies (KOFST)
- Apr 2011             **Minister's Award**, Ministry of Education and Science Technology (MEST)
- Sep 2009             **Commemorative Commendation (20th Anniversary of Foundation)**,  
Korea Institute of Industrial Technology (KITECH)
- Sep 2003             **Commendation for Meritorious Service (President's Award)**,  
Korea Institute of Industrial Technology (KITECH)