

# Hyunseok Choi (BEN)

Postdoctoral Researcher

Republic of Korea INCHOEN



## Education



**Korea University**  
PhD, Mechanical Engineering  
(September 2019 - August 2024)  
5 years



**Korea University**  
Master's degree  
Mechanical Engineering  
(2016 - 2018)



**Seoul National University of Science and Technology**  
Mechanical System Design Engineering  
Bachelor's degree  
(2011 - 2016)



**Korea Polytechnics, Incheon**  
Dept. of Computer Aided Dies & Mold  
Industrial Associate's degree  
(2009 - 2011)

## Experience



**KITECH, Korea Institute of Industrial Technology**  
8 yrs 11 mos  
KOREA

Postdoctoral Researcher  
Sep 2024-Present(5mos)  
Graduate Research Student  
Sep 2018-Aug 2024(6yrs)  
Graduate Research Student  
Mar 2016-Feb 2018(2yrs)



**HKC**  
Tool & Die Specialist  
(3 yrs 1 mos)  
KOREA  
Aug 2011 - Aug 2014

## Contact



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110/1704, 17, Gukgasandan-daero 70-gil, Guji-myeon, Dalseong-gun, Daegu

## Patents

1. Apparatus for preventing burr emergence of PCB  
(1020262130000)
2. Manufacturing method of shielding ring through progressive press die  
(1020380820000)
3. Apparatus for performing piercing and burring simultaneously using MR composites containing magnetic material  
(1021149820000)

## Publication

1. "Press Conduction Welding for Secondary Bonding of Aircraft Skin/Stiffener Assemblies Using Carbon Fiber/PEKK Thermoplastic Composites and PEI Adhesive" (POLYMER, 2024) Q1, IF4.7
2. "Secondary bonding of CF/PEKK thermoplastic composites with a PEI film adhesive in a press welding process" (Modern Physics Letters B, 2023) Q3, IF1.8
3. "Quantitative evaluation of the sheared edge of woven glass epoxy laminate after mechanical punching" (Int. Journal of Advanced Manufacturing Technology, 2022) Q2, IF2.9
4. "Forming a Flanged Hole When Quenching Press-Hardened Steel for Mechanical Fastening" (METALS, 2021) Q2, IF2.6, [co-author]

## Research Project Portfolio

1. Development of Blanking Dies for Rigid-Flex PCB Cutout  
Period: 2015.08 - 2018.12 (3 years, 5 months)  
Private Sector Sponsored Research
2. Development of Research Platform for Hot-Press Forming Technology - Lightweight Parts Based on PHS and CFRP  
Period: 2017.01 - 2019.12 (3 years)  
Ministry of Economy and Finance, Republic of Korea (MOEF)
3. CFRP-Metal Hybrid Part Forming and Joining Technologies for Automotive Weight Reduction  
Period: 2017.07 - 2019.12 (2 years, 6 months)  
Ministry of Economy and Finance, Republic of Korea (MOEF)
4. Development of Single-Aisle Aircraft Entrance Wall Structure Using Thermoplastic Composite Materials  
Period: 2019.10 - 2024.3 (4 years, 6 months)  
Ministry of Trade, Industry and Energy, Republic of Korea (MOTIE)
5. Development of High-Speed (150°/sec) Bending Machine for Electric Vehicle Battery Pack Insulated Rigid Busbar Manufacturing  
Period: 2020.11 - 2022.12 (2 years, 2 months)  
Ministry of Trade, Industry and Energy, Republic of Korea (MOTIE)
6. Development of Aircraft Structures Based on Thermoplastic Carbon Composite  
2024.04 - 2028.12 (4 years, 9 months)  
Ministry of Trade, Industry and Energy, Republic of Korea (MOTIE)
7. Development of Technology for Integration of 2.5m-class Cargo Door Composite Structure for Aircraft  
2024.07 - 2027.12 (3 years, 6 months)  
Ministry of Trade, Industry and Energy, Republic of Korea (MOTIE)