

# Erol Bicer, Ph.D.

## Nuclear Engineer



+82-10-7497-0705  
erolbicer@live.com  
www.erolbicer.com  
nucerl  
South Korea  
1989/09/29

### LANGUAGES

English — Fluent  
Turkish — Fluent  
Korean — Conversational

### SYSTEM CODES

RELAP5 | MARS-KS | SPACE

### CONTAINMENT CODES

GOTHIC | CAP

### SEVERE ACCIDENT

MELCOR

### CFD CODES

OpenFOAM | CUPID

### CODING LANGUAGES

MATLAB | FORTRAN | C++ |  
HTML/CSS | PYTHON

### TOOLS

Git | DOS/UNIX | ParaView |  
Salome | Origin | CATIA |  
Mathcad | PCTRAN | SNAP

### PROFILE

I specialize in conducting comprehensive safety analyses for various types of nuclear power plants using advanced system and computational fluid dynamics codes. My experience encompasses successfully developing, leading, and completing international projects through effective collaboration with global teams.

### PROFESSIONAL EXPERIENCE

FNC Technology Co., Ltd.

Manager  
2023 – present | South Korea  
Associate Manager  
2019 – 2023 | South Korea  
Assistant Manager  
2016 – 2019 | South Korea

Bil-Plas Industry and Trade Co., Ltd., R&D Engineer   
2013 – 2014 | Ankara, Turkey

### EDUCATION

Nuclear Engineering, Ph.D., Seoul National University   
2024 | Seoul, South Korea

Nuclear Power Plant Engineering, M.Sc., KINGS   
2016 | Ulsan, South Korea

Nuclear Energy Engineering, B.Sc., Hacettepe University   
2013 | Ankara, Turkey

### LATEST PROJECTS

[SMR] Small and Micro Modular Reactors Technology Analyses  
[PCCS] Conceptual Design and Development of Passive Containment Cooling System for APR1400  
[SMART] System-Integrated Modular Advanced Reactor Passive Containment Cooling System  
[PGSFR] Prototype Gen-IV Sodium-Cooled Fast Reactor Condition Analysis  
[EUR] APR1000 PAFS Standard Design Development and EUR Certification Support

### AWARDS & CERTIFICATES

International Atomic Energy Agency Fellowship, IAEA  
Full Academic Scholarship, KINGS  
Modeling and Computation of Multiphase Flows, ETH  
International Marketing, Business Knowledge and Intelligence, ATO

### PERSONAL VENTURES

Nuclear Industry Association of Turkey, Board of Directors   
Turkish Chamber of Commerce in Korea, Co-Founder   
Hacettepe Rugby Club, Founder