

Erol Bicer, Ph.D.

Nuclear Engineer



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📍 South Korea
R⁶ ResearchGate/Erol-Bicer
🐙 GitHub/nuceri

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

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

TOOLS

Git | PCTran | SNAP | Origin |
Salome | DOS/UNIX | ParaView |
CATIA | Mathcad | LaTeX

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, Türkiye

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