

Erol Bicer, Ph.D.

Nuclear Engineer



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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

ERP | Microsoft Project | Trello |
Jira | Git | PCTAN | SNAP |
Origin | Salome | DOS/UNIX |
ParaView | CATIA | Mathcad

PROFILE

I have over nine years of experience specializing in conducting comprehensive safety analyses for various nuclear power plants, using advanced system and computational fluid dynamics codes. My expertise encompasses successfully developing, leading, and completing international projects through effective collaboration with diverse multinational and multicultural teams.

PROFESSIONAL EXPERIENCE

FNC Technology Co., Ltd.

Manager | Overseas Business Team
2024/11 – present | South Korea
Manager | Thermal-Hydraulics Technology
2023/10 – 2024/11 | South Korea
Associate Manager | Thermal-Hydraulics Technology
2019/08 – 2023/10 | South Korea
Assistant Manager | Department of Thermal-Hydraulics Research
2016/01 – 2019/08 | South Korea

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

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
Project Development and Management (APM)
[MSR] Development and Analysis of Fuel Salt Leakage Behavior
in Discharge System Shell
Project Development and Management (APM)
[PGSFR] Prototype Gen-IV Sodium-Cooled Fast Reactor Analysis
[EUR] APR1000 PAFS Standard Design Development and EUR
Certification Support

CERTIFICATES AND AWARDS

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

PERSONAL VENTURES

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