

Erol Bicer, Ph.D.

Nuclear Engineer



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📍 South Korea

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 | JavaScript

TOOLS

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

PROFILE

I have over nine years of engineering experience specializing in conducting nuclear 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.

Engineer III - Overseas Business Team Manager
2024/11 – present | South Korea

Engineer III - Thermal Hydraulics Technology Manager
2023/10 – 2024/11 | South Korea

Engineer II - Thermal Hydraulics Technology Associate Manager
2019/08 – 2023/10 | South Korea

Engineer I - Thermal Hydraulics Research Assistant Manager
2016/01 – 2019/08 | South Korea

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