

# Erol Bicer, Ph.D.

## Nuclear Engineer



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🌐 LinkedIn/erolbicer

📄 ResearchGate/Erol-Bicer

🐙 GitHub/nuceri

📍 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

### TOOLS

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

### PROFILE

I have nine years of experience specializing in conducting comprehensive safety analyses for various 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 diverse multinational and multicultural 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, 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)*

**[SMART] System-Integrated Modular Advanced Reactor Passive**  
**Containment Cooling System**

**[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 ☑