



Internship Title

Internship – Atoms4NetZero - Modelling net-zero pathways of South Korea using IAEA tools

Duration of Internship:

6 months

Target Start of Internship:

2024

Organizational Setting

Department: Nuclear Energy

Division: Planning, Information and Knowledge Management

Section: Planning and Economic Studies (PESS)

Main Purpose

The main purpose of the internship is to produce a case study of South Korea's energy system and explore optimal pathways to achieving net-zero carbon emissions, through a systems-cost approach and using IAEA's planning tools. The intern will quantitatively analyse nuclear energy's role in South Korea's net-zero pathways and foster a comprehensive understanding of the challenges and opportunities for nuclear energy.

Tasks / Key Results Expected

- Review of recent net zero studies of South Korea, including findings and methodologies
- Review recent developments of South Korea's energy sector, including energy demand, energy production, technology trends and costs, policies, electricity market
- Use IAEA's suite of tools, complemented with other tools, to develop a case study for South Korea.
- Prepare a report and presentations related to the case study
- Assist in stakeholder management and outreach

Knowledge, Skills and Abilities

- Good analytical skills and familiarity with quantitative methods are essential
- Ability to manage data using spreadsheets or other databases is essential
- Knowledge of microeconomic theories, energy markets can be an asset
- Demonstrated interest in work, being efficient in meeting commitments, observing deadlines, and achieving results

Qualifications and Experience

- University degree in Engineering, Economics, or a related field.
- Experience in energy system modelling, simulation, and analysis can be an asset.



Internships

The IAEA accepts a limited number of interns each year. The internships are awarded to persons studying towards a university degree or who have recently received a degree (see Internship web pages for further details).

The purpose of the programme is:

- To provide interns with the opportunity to gain practical work experience in line with their studies or interests, and expose them to the work of the IAEA and the United Nations as a whole;
- To benefit the IAEA's programmes through the assistance of qualified students specialized in various professional fields.
- The recommended duration of this internship is 6 to 12 months.

Applicant Eligibility

- Candidates must be a minimum of 20 years of age and have completed at least three years of full-time studies at a university or equivalent institution towards the completion of a first degree.
- Candidates may apply up to one year after the completion of a bachelor's, master's or doctorate degree.
- Candidates must not have previously participated in the IAEA's internship programme.
- Excellent written and spoken English essential; fluency in any other IAEA official language (Arabic, Chinese, French, Russian, Spanish) an asset.
- Candidates must attach two signed letters of recommendation to their application.