

Fellowship Profile

IAEA PROGRAMS
AT ARGONNE NATIONAL LABORATORY

Governmental and regulatory infrastructure
for nuclear installations safety

TRAINING SUMMARY

My name is Kamil Krukowski, and I am a nuclear safety specialist in the Nuclear Safety and Security Department at the National Atomic Energy Agency of Poland (PAA). I participated in three-month fellowship at the U.S. Nuclear Regulatory Commission (NRC) in Rockville, Maryland. The program focused on probabilistic risk assessment (PRA) and its role within regulatory framework.

During the Fellowship, I developed a deeper understanding of probabilistic risk assessment methodologies and applications, with a focus on the PRA use in regulatory assessment. I also gained experience in risk-informed decision-making and learned about real-world applications of PRA such as risk significance determination, significance determination process and risk-informed categorization and treatment of structures, systems and components. I also had opportunity to learn about new reactor PRA reviews and key differences in PRA modeling between SMRs and large PWRs.

WHATS NEXT?

As team member preparing for the licensing process of Poland's first nuclear power plant, which will utilize AP1000 reactor technology, I found this training invaluable. Upon returning home, I resumed my work as a PSA specialist and will apply the knowledge and skills gained, particularly in technical evaluation, to support licensing activities, ensure regulatory compliance, and contribute to the safe and efficient development of the national nuclear program.



"Thanks to this training, I expanded my knowledge about probabilistic risk assessment. This will be crucial for my role during the licensing process."

Kamil Krukowski- Poland

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Hosted by: US Nuclear Regulatory Commission