



collaborating with **Électricité de France** on the Nuward SMR in France. Hatch also has experience with SMRs, having cooperated with vendors, utilities, heavy industry, industry regulators, and governments in the development, licensing, and implementation of reactors. For example, Hatch has been collaborating with **ARC Clean Energy Canada** in the design of nuclear power plants in a fully digital format with an emphasis on modular designs.

■ EDF has signed a framework cooperation agreement with Slovak state-owned **JAVYS** on the development and implementation of both small and large nuclear power plants in Slovakia. JAVYS expects the agreement to lead to

an increased exchange of information regarding new nuclear technologies, allowing the company to assess the suitability of the technologies for the Slovak energy network. Slovakia currently has four operating commercial nuclear reactors; these VVER reactors generate about one-half of the country's electricity. A fifth reactor was connected to the grid in February, a sixth is under construction, and a siting permit application for a seventh has been submitted. The government has been investigating the feasibility of adding SMRs to the grid, including Westinghouse's AP300. A power plant with EDF's Nuward SMR would consist of two independent 170-MWe reactors in one building.

■ Polish company **Orlen Synthos Green Energy** (OSGE) has signed an MOU with the **Emirates Nuclear Energy Corporation** (ENEC) to collaborate on decarbonization efforts through the development of SMRs. The agreement establishes a framework to enable the development of SMRs based on the BWRX-300 technology of **GE-Hitachi Nuclear Energy**, as well as the deployment of a fleet of these units in Poland, elsewhere in Central and Eastern Europe, and in the United Kingdom. OSGE, which owns exclusive rights to use the BWRX-300 technology in Poland, has plans to deploy Poland's first SMR power plant by

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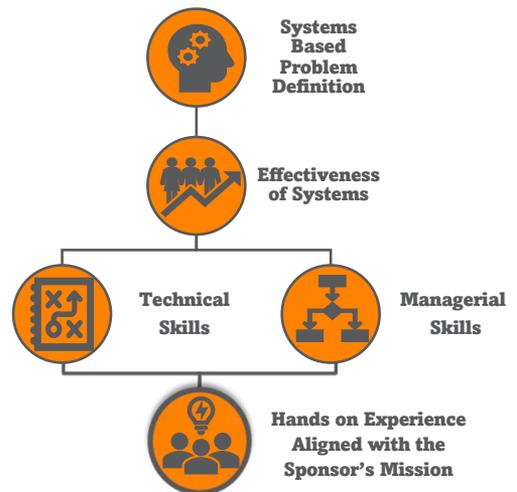


Master's Degree in Industrial Engineering with a Systems Concentration

🎓 **Overview:** Pioneering innovation and excellence since 2011, our 2-year master's program at the Industrial and Systems Engineering (ISE) Department at the University of Tennessee, Knoxville (UTK) reshapes the graduate education experience for non-traditional students while delivering exceptional value to their organizations. We break barriers of place, time, and tradition to empower adult learners and offer top-tier educational opportunities.

🌐 **ISE/CASRE's Master's Program - A Beacon of Excellence:** At the heart of the Master's Program lies Systems Thinking—a transformative concept that enables holistic problem-solving. What sets us apart is our unique approach, founded on The Sawhney Model. Developed and rigorously tested alongside industry partners, this approach is a surgical and systematic strategy for critical thinking and problem-solving. At its core is the principle of transferable learning, ensuring our graduates are equipped to competently tackle workforce challenges. This design also offers unparalleled flexibility, seamlessly integrating into various industry applications and existing development programs.

🤝 **Building Stronger Communities:** Through affinity groups, our program fosters collaboration and strengthens relationships across the U.S. nuclear enterprise, with a focus on Department of Energy and affiliated organizations.



HIGHLIGHTS OF THE PROGRAM

- 97% On-Time Graduation Rate
- 33 Credit Hours (Including Capstone Project)
- Meets 1 Day a Week (Online or In-Person)
- New Cohort Starting in Fall 2024

For more information:
Carla Arbogast – CASRE Director
 carboga1@utk.edu | (865) 974-9965