

Nuclear Education Hub (NEH) Nonprofit Organization

Co-Directors: Andrei Afanasev (GW) and Alireza Haghghat (VT)

NEH Accomplishments

NEH brings together industry, academic, and Federal stakeholders to collaborate on workforce development aimed to support international co-operation of US in nuclear energy.

NEH was established in 2018 through a grant from the Office of International Nuclear Policy and Cooperation, US Department of Energy, for the purpose of education of Ukrainian citizens in Nuclear Science and Nuclear Engineering. NEH brought together key stakeholders and set up the future plan for engagement. However, because of the pandemic, its next steps that included site visits and meetings in Ukraine had to be postponed. As the end of the pandemic is in sight, and considering the priorities of the new US government's international engagement, the recent announcement by several Eastern European countries on investing in nuclear energy, NEH has expanded its mission by including other new nuclear countries.

Mission of NEH Nonprofit

In 2021, NEH established itself as a non-profit organization. The main goal of NEH is to provide a platform for a coordinated effort between diverse stakeholders aimed at educating and training international workforce for nuclear energy, promoting US technologies, as well as safety standards and policies. NEH prioritizes human capital development with established nuclear partners in the US, as well as newly emerging partners, particularly in Eastern Europe.

To facilitate cooperation and communication between the stakeholders in both US and internationally, NEH has established an external Board of Advisors that will provide support, advice and guidance on matters that will ensure best strategies for NEH programs and initiatives. Board of Advisors is comprised of lead representatives of academia, private companies, National laboratories, and professional societies.

Key activities of NEH include:

- Recruitment of international students from the partner countries into nuclear engineering and science programs in US universities.
- Fostering international partnerships in training and education in nuclear science and engineering.
- Organization of international lectures, seminars, workshops and schools for addressing both special applied and basic topics
- Organization of summer internships for international students in US universities and companies.
- Curriculum development for advanced-degree international educational programs in nuclear engineering and nuclear science.
- Establishing inclusive educational networks of universities, industries and research laboratories.
- Facilitating international faculty exchange and enrichment.

Joining NEH nonprofit

NEH membership is available for industries, academic institutions and federal laboratories engaged in nuclear engineering and nuclear science. NEH members will be provided access to invitation-only meetings and workshops, take part in collaborative NEH-funded research and development, will have an opportunity to host interns and trainees through NEH, access curriculum and educational tools developed by NEH, join educational partnerships and networks, and contribute to NEH governance.