

NUCLEAR POWER INSTITUTE

About NPI K-12 College and Beyond Educators Educational Partners Industry Training

Nuclear Power Technology Certificate

Nuclear Power Plant Fundamentals
Nuclear Power Plant Systems
Nuclear Power Plant Operations
Human Performance For NPP Engineers



New program coming in 2017 -

Roadmap to Operational Excellence



DEVELOPING THE NUCLEAR INDUSTRY WORKFORCE

Concerns about rising electricity demand and clean air are among the factors driving interest in nuclear technology. Nuclear energy is the only electricity source that can generate electricity 24/7 reliably, efficiently and with no greenhouse-gas emissions. NPI is developing the human resources and preparing the workforce for the current nuclear power plants and the potential new reactors to be built in Texas and around the country. These vital workforce needs are being met through a broad partnership with industry, two year community and technical colleges, four year universities, high schools, middle schools, science and math teachers, state government, Federal agencies, and elected and civic leaders.

SKILLED WORKERS ARE NEEDED FOR EXISTING AND NEW REACTORS

Two thirds of these will require **associate degrees** with specialization in:

- Nuclear power plant systems
- Radiation protection
- Digital instrumentation and control

Also needed: **engineers with undergraduate degrees** in:

- Nuclear engineering
- Mechanical engineering
- Chemical engineering
- Electrical engineering
- Engineering technology
- Engineering physics

Knowledge of nuclear power plant technology is required.

The NPI partnership and programs are meeting all these needs.

Why Nuclear Power? People working in the field are optimistic about nuclear power because

- The energy produced per amount of material consumed is the highest available;
- Uranium-235 can produce 3.7 million times as much energy as the same amount of coal;
- Costs are competitive with coal, the major source used in the world;
- Uranium, the source material, is abundant;
- Plutonium, a by-product of commercial nuclear plant operation, can also be used as a fuel;
- Nuclear energy produces less waste than any major energy production process; and
- Nuclear power plants do not pollute our air by avoiding carbon dioxide emissions.



NPI News

Palacios POWER SET Visits South Texas Project

October 26, 2017

On Thursday, October 12th, Palacios POWER SET visited the South Texas Project to tour the training facility, simulator, and reservoir, as well as meet...

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POWER SET and Robotics Teams Compete at Coastal Bend Engineering Competition

October 12, 2017

On Friday, October 6th, 2 teams including 5 POWER SET and 4 WIT members of "Robosharks" competed at Texas A&M-Corpus Christi in the Coastal Bend ...

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POWER SET Inducts Sixteen New Members

October 9, 2017

On Thursday, October 5th, sixteen new members were inducted to the POWER SET organization. POWER SET is an acronym for Powerful Opportunities for Women...

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From Power GRID to POWER SET

October 5, 2017

Mai Nguyen, Palacios High School sophomore and new POWER SET member for the 2017-2018 school year, is the first former Power GRID member to...

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- From Power GRID to POWER SET