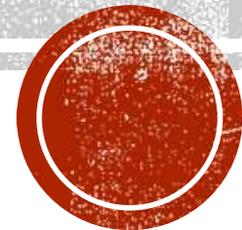


**THE NUCLEAR ENERGY TRIBAL WORKING GROUP (NETWG)  
WHITE PAPER ON TRIBAL INVOLVEMENT IN STEM  
EDUCATION AND WORKFORCE DEVELOPMENT**

August 29, 2018

ICEIWG Q3 meeting





# NETWG BACKGROUND

- Chartered working group in 2014 through the Department of Energy-Office of Nuclear Energy (DOE-NE)
- Comprised of tribal representatives from 12 federally recognized tribes throughout the United States
- Serves as a conduit for communication between Tribes and DOE-NE on nuclear energy-related activities
- Involvement priorities of the NETWG: the nuclear fuel cycle, NE educational opportunities and STEM education, research and development, cultural resource management and DOE-NE outreach





# STEM WHITE PAPER PURPOSE

- To focus on expanding and strengthening educational opportunities and workforce development in Indian country related to science, technology, engineering and math (STEM), with an emphasis on nuclear energy education, and involvement with DOE facilities
- To explore the strengths and weaknesses of DOE's diversity efforts
- To identify the access points and gaps within the current DOE funded STEM programs so funding can be allocated to areas that will have the most impact for tribes





# STEM WHITE PAPER OUTLINE

- SECTION I - NETWG BACKGROUND
- SECTION II - INTRODUCTION
- SECTION III - INFORMATION AND DATA GAPS IN STEM
- SECTION IV - FEDERAL STEM BACKGROUND AND RULE MAKING: LEGISLATION
- SECTION V - A SNAPSHOT OF STEM INITIATIVES IN TRIBAL COMMUNITIES
- SECTION VI - TOOLS FOR INCREASING TRIBAL ENGAGEMENT
- SECTION VII – SUGGESTIONS FOR DOE





# CONCLUSION

DOE and NETWG share a common concern for the current and future state of available qualified STEM professionals.

- Tribes require STEM professionals to apply Traditional Ecological Knowledge, a critical element in fulfilling their role as stewards of the land
- To identify the strengths and weaknesses of DOE's diversity efforts and the impact on STEM
- Promote and work with DOE to improve the pathways for students and increase the number of STEM professionals with TEK and a science background
- Initiate further conversations between existing AI/AN STEM DOE professionals, DOE office staff and tribes with a goal to increase STEM opportunities for Native Americans and create career opportunities within DOE Headquarters, at DOE sites and within their respective tribes

