

HIGHLIGHTS

University Collaborations

The Technical Applications Office (TAO) within ALDWP is leading a series of Laboratory – University collaborations and partnerships. This activity, The Weapons Production Technology and Nuclear Training (WP-TNT) partners with TechSource, a member of the Triad team, in both a technological and recruiting outreach to regional and key universities within the United States. WP-TNT has initiated nine three-year, technology projects at five universities to date. Results include technology advances against current operational issues/needs and 23 LANL (primarily ALDWP) hires with 7 offers pending since January of 2023. Scientists and engineers who will contribute to the long-term production mission at LANL in calendar year 2023 and beyond.

Assisting these efforts, TechSource provides SMEs to assist students and faculty when ALDWP resources are limited. Acting as a student/faculty mentor/liaison these individuals interface with ALDWP SMEs and the University. They include Frank Gibbs, PhD, Paul Dunn, PhD, and Bill McKerley who have nearly a century, cumulatively, of experience in the Nuclear Complex and at TA-55. Participating universities include Montana State University (MSU), Texas A&M University (TAMU and Triad partner), University of Texas at El Paso (UTEP), Arizona State University (ASU), and Auburn University (AU). Separate TAO highlights are in development for each individual university and the specific scope that they are partnering with LANL on. These will be forthcoming.



University interaction team within TAO.

University	Started	Project Scope	Metrics
MSU	2021	Non-contact inspection and next generation machining platforms and equipment	10 students 7 faculty 15 LANL hires 4 LANL offers
TAMU	2022	Nuclear material accounting, MCNP simulation and modeling of PF-4 for criticality and DYMAL applications	6 students 2 faculty 5 LANL hires
UTEP	2022	Metallurgy, casting, chemistry, and additive manufacturing	8 students 6 faculty 1 LANL hire
ASU	2023	Remote training curricula, modeling of production environment, and risk assessment and quantification	students pending 6 faculty 2 LANL hires 3 LANL offers
AU	2023	RFID, cyber computing, and wireless communication	2 students at LANL



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