



July 27, 2012

TTU Nanophotonics Center awarded highly competitive grant from High Energy Laser Multidisciplinary Research Initiative (HEL-MRI) of ARO/JTO

The Center for Nanophotonics in the Whitacre College of Engineering at Texas Tech University led by Dr. Hongxing Jiang, Ed Whitacre Endowed Chair and Professor of ECE and Dr. Jingyu Lin, Linda Whitacre Endowed Chair and Professor of ECE has been awarded a \$2 million grant from the High Energy Laser Multidisciplinary Research Initiative (HEL-MRI) program supported by the High Energy Lasers-Joint Technology Office (HEL-JTO) and Army Research Office (ARO). This is a 5-year research program and the TTU Nanophotonics team will develop novel gain materials for next generation solid-state high energy lasers.

Since its inception in September 2010, the TTU Nanophotonics Center has been awarded 3 major research grants from federal agencies, including a \$1.24 million grant for 2.5 years from DARPA-MTO's [CMUVT](#) program for the development of deep UV photonic devices; another \$1.55 million grant for 4 years from DHS's [ARI](#) program for the development of solid-state neutron detectors for nuclear materials sensing (in collaboration with Kansas State University).

Professors Hongxing Jiang and Jingyu Lin relocated their \$8 million lab in 2008 from Kansas State University to launch the nanophotonics initiative at TTU. The Nanophotonics team has pioneered the fabrication of nanophotonic devices which emit UV, IR, blue, green, and white light based on nitride semiconductors. These materials and devices are likely to become parts of solutions of a wide variety of problems ranging from improved efficient lighting for energy savings, energy generation, detection of nuclear agents, missile defense, to communications. Since 2008, the team has secured a total of \$9 million in competitive federal research funding to TTU.

PROGRAM ANNOUNCEMENT



DEPARTMENT OF DEFENSE

**High Energy Laser Multidisciplinary
Research Initiative (HEL-MRI)**

Fiscal Year 2012

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