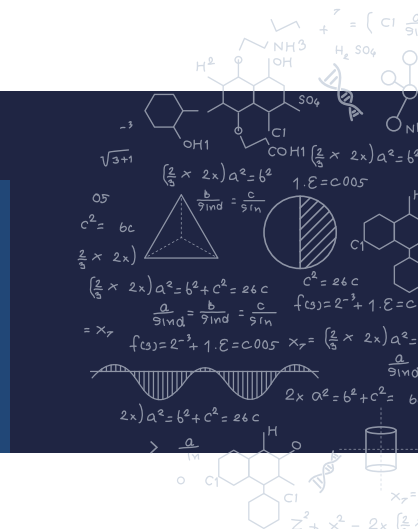


# LICENSING OPPORTUNITY: ELECTRONIC TORQUE REALIZATION APPARATUS



## DESCRIPTION

### Problem

The Electronic NIST Torque Realizer (ENTR) aims to solve the problem of inaccurate and inefficient torque tool calibration.

### Invention

ENTR (Electronic NIST Torque Realizer) is a table-top-sized device designed for generating and measuring torques.

for some contemporary torque calibration procedures. ENTR may allow for lower ranges of torque generation in a calibration setting than currently available conventional torque transducers. ENTR can also cover a wider torque range of calibration within a single device, reducing the need for calibration facilities to purchase and catalog multiple torque testing devices to cover operational ranges of tools. ENTR is also inherently more accurate than conventional torque transducers and torque calibration systems/processes.

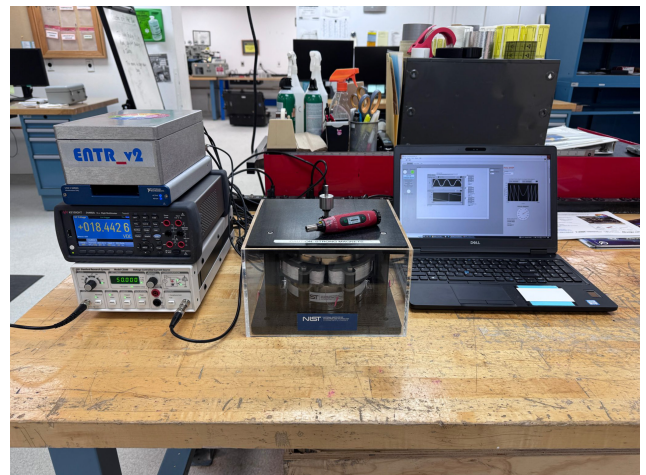
## BENEFITS

### Potential Commercial Applications

Designed to serve as a commercial, end-user product, empowering torque calibrations laboratories to directly realize torque to calibrate everyday torque tools necessary for manufacturing.

### Competitive Advantage

This device allows end-users to truncate the traceability chain and directly realize torque within their own facilities, reducing need for transportation and outsourced calibration of mass and length artifacts that are used



Recent photo of ENTR formally deployed to Nellis Air Force Base proving system practicality and transportability while demonstrating inherent accuracy as a primary torque standard. The system is presently being field tested by torque maintainers on site.

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