



# HVAC Technical Center of Expertise

Program Manager: 256-603-2705

**U.S. ARMY CORPS OF ENGINEERS**

**BUILDING STRONG**

## **Mission**

The U.S. Army Engineering and Support Center, Huntsville Heating, Ventilating, and Air-Conditioning Technical Center of Expertise's mission is to serve as a subject matter expert for USACE on heating, ventilating, and air-conditioning, HVAC, related topics including refrigeration.

## **Establishment**

The Heating, Ventilating, and Air-Conditioning Technical Center of Expertise, HVAC TCX, was established in 2002 to support the Army and USACE with HVAC-related design, construction and maintenance issues. Since the program's inception, the customer base has grown to include Department of War elements as well as USACE Civil Works offices.

Services commonly provided by the HVAC TCX include the following:

- Scope / Criteria Development
- Design Development / Design Review
- Construction Support (Submittal Reviews, Testing, Commissioning, etc.)
- Site Assessments / Energy Audits
- System Assessments / Performance Verification Testing / Troubleshooting
- HVAC Training

Tools and analysis commonly performed by the TCX include the following:

- Energy Analysis
- Heating and Cooling Load Analysis
- Systems Comparisons / Life-Cycle Cost Analysis
- Equipment Sizing / Selection
- Piping Sizing / Stress Analysis
- Ductwork Sizing
- Ventilation Analysis
- Sequences of Control / Control Points List
- Ground Source Heat Pump Design / Evaluation

The HVAC-TCX is operated and managed by Huntsville Center's Engineering Directorate, Mechanical and Manufacturing Technology Branch. The branch is structured in a matrix type support model that allows support to multiple programs and projects concurrently. Projects associated with the HVAC-TCX are handled under this same matrix support structure. The branch's setup allows for the full resources of the group to support the HVAC-TCX as needed and when available.

The HVAC-TCX is an active TCX and was most recently re-certified by USACE on April 26, 2023.

The TCX includes a group of mechanical engineers with experience in supporting a broad range of HVAC and refrigerant related programs and projects.

Technical questions and requests for HVAC-TCX services may be submitted via email to CEHNC-HVACTCX@usace.army.mil. Phone numbers for key personnel include:

Branch Chief - (256) 895-1727

Technical Lead - (256) 603-2705

---

**U.S. Army Corps of Engineers – Engineering and Support Center, Huntsville**  
300 Secured Gateway SW Redstone Arsenal, AL 35898 Public Affairs Office 256-895-1694  
[www.hnc.usace.army.mil](http://www.hnc.usace.army.mil)

Distribution A - Approved for Public Release - Unlimited Distribution - Release 1910