



**US Army Corps
of Engineers®**

Engineer Research and
Development Center

Capability/Service

CAD/BIM Technology Center for Facilities, Infrastructure, and Environment

Description

ERDC's CAD/BIM Technology Center for Facilities, Infrastructure, and Environment coordinates the use of computer-aided design (CAD) and building information modeling (BIM) activities for facilities, infrastructure, and environment within DoD, other participating governmental agencies, and the private sector. The activities include setting standards, promoting system integration, supporting centralized acquisition, and providing assistance for the installation, training, operation, and maintenance of CAD and BIM systems. They also include directing specific applications development, promoting communications, developing and promoting standards, furnishing technical advice, interfacing with professional organizations and industry, evaluating technological developments, and recommending necessary CAD and BIM policy to ensure that maximum benefits are received from these technologies.



Capabilities

The Center offers a full range of technical and professional services for primarily CAD and BIM systems, as well as expertise in GIS and facilities management technologies: development and implementation support for data format and content standards, centralized procurement of products and applications, provision of a clearinghouse for information exchange, and furnishing technical assistance to managers and users of these systems.

The Center staff consists of professionals with advanced degrees and extensive experience in the use of CAD and BIM technology to solve complex problems related to facility management, natural and cultural resources, planning, civil works functions, and all engineering design disciplines. The staff members are available to assist sites in implementing its Architectural/Engineering/Construction (A/E/C) CADD Standard, as well as the Corps' Corporate Template Dataset for BIM. The Center is also available to demonstrate other tools such as the CADD Details Library and to discuss any CAD/BIM issues or problems users might have.

The Center has received two Vice President's Hammer Awards for Excellence in Reinvention of Government. The Center has also shared in earning a Fully Integrated and Automated Technology (FIATECH) Celebration of Engineering & Technology Innovation (CETI) award in 2008 for the project "U.S. Army Corps of Engineers Moves Forward with Building Information Modeling."

Supporting Technology

- Electronic Bid Solicitation
- Architectural/Engineering/Construction (A/E/C) CADD Standard
- CADD Details Library
- BIM Corporate Template Dataset for the U.S. Army Corps of Engineers
- BIM Road Map
- BIM Manager Workshops

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- Chief of Engineers Design and Environmental Awards Web Site
 - Technology Transfer
 - Web Design/Hosting

Benefits

The projects developed by the CAD/BIM Technology Center benefit many installation facility management and civil works operations and maintenance activities by providing:

- Improved business practices taking advantage of CAD and BIM technology.
- Cost avoidance and reduced design time for projects through application of universally adopted standards.
- Cost-effective integration of BIM models and/or CAD design drawings with GIS-based technology.

ERDC POC(s)

For more information, contact Edward L. Huell, Acting Chief, The CAD/BIM Technology Center for Facilities, Infrastructure, and Environment, at 601-634-4485 or Edward.L.Huell@usace.army.mil.