

Innovations & Solutions for Today's Challenges

i-ETC May 17-18, 2027

Intermountain Engineering, Technology and Computing (i-ETC.org) Conference provides a forum for interaction among students, faculty, and industry. As contributors in the technology fields of engineering, technology, and computing, we join together to present research, product technology demonstrations, and advances in higher education.

Attendees will learn about current research, and industry best practices for digital product design, development, testing, deployment, and operation.

i-ETC is supported by Utah Valley University (UVU), Utah State University (USU), Brigham Young University (BYU), Weber State University, Idaho State University, Montana State University and a number of Utah's technology industries located along the Silicon Slopes.

Sponsorships:
We welcome sponsoring donations from industry and academic institutions. In addition to recognition on the conference website, sponsors meeting minimum levels will be granted space in the conference area for a table or booth. For sponsorship information, please contact Stefan Harlan at stefan.harlan@uvu.edu

Call for Papers

Prospective authors from universities, research institutions, government agencies and industry are invited to submit a full paper electronically (https://i-etc.org) with a maximum of six pages. **Paper title, abstract, and author list due by February 5th, 2027. Full paper due February 12th.**

All papers presented at the conference will be published in the conference proceedings. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

Call for Posters
We invite undergraduate and graduate student researchers to participate in the student research poster competition. The best posters presented at the conference will receive nominal cash award. Abstracts of posters are due April 9, 2027.

Abstracts of posters presented at the conference will be published in the i-ETC 2027 conference proceedings.

Panel Sessions/Tutorials and Technical Sessions
Prospective organizers of special sessions, panel sessions, tutorials sessions, and technical sessions are invited to submit proposals by January 8th, 2027.

Registration

One-Day	Student	Participant
$125	$75	$200
	4/16/27	4/16/27
Industry Participants	Early Bird Registration	Early Bird Registration

Full participant registration fee is $250 ($200 early), & $100 ($75 early) per full-time student participant, or $150 ($125 early) for one-day registration for industry participants. *Early bird registration ends April 16, 2027.*

Student Paper Awards
There will be up to 12 student paper and poster awards.

Conference Chair
John Edwards (USU)
• john.edwards@usu.edu

Conference Secretariat
• ietc@uvu.edu

Utah State University
UVU Utah Valley University
Montana State University
BYU Brigham Young University
Weber State University
Idaho State University
The University of Utah

ENGINEERING TRACK

Energy Systems
Smart Grid; Power Systems Operation and Planning; Sustainable and Renewable Energy Systems; Power Electronics; Electromechanical Energy Conversion and Storage; Energy Consumption Modeling and Optimization; Energy and Environmental Engineering

Signal/Image Processing & Control
Smart Manufacturing & Automation; Intelligent Robot Systems; Artificial Intelligence; Machine Learning & Neural Networks; Sustainable Manufacturing; Manufacturing Process Monitoring and Control

Communication and Computer Engineering
5G and 6G Wireless Communication Technologies; Computer Architecture & High-Performance Computing; VLSI & Low-power Design, Robotic Systems; Internet of Things(IOT)

Electronics and Circuits
Smart Circuits and Systems; VLSI Design; Nanomaterials and Nanotechnology; Optical Communication

Mechanical Engineering
Heat Transfer; Fluid Mechanics; Thermodynamics; Mechanisms & Robotics; Mechanical Design; Mechanics & Mechatronics

Material Science & Engineering
Smart Materials; Innovative Engineering Materials; Materials Design and Applications; Composite Materials Science and Technology; Nanomaterials; Materials and Manufacturing Engineering

Civil and environmental Engineering
Environmental Engineering; Water Resources; Hydraulic Information; Geotech, Water and Air Quality Studies; Instrumentation and Remote Sensing; Geographic Information Systems; Building Information Modeling; New Construction Materials; Sustainable Solutions and Practices; Transportation

Education Topics*

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www.i-etc.org

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TECHNOLOGY TRACK

Technology Design
Architecture; Drafting; Survey & Mapping, Drone Surveying; 3D Printing & Prototyping; UX Digital Product Design; Civil Engineering; Web & Digital Platforms; Human Centered Design; Mobile App; Accident Reconstruction

Digital Media
Digital Animation; Game Development; Digital Cinema Production; Cinematography; Directing; Post-Production; Digital Photography; 360° Photography & Video; Digital Audio; Music Editing & Production; Home Automation & Internet of Things (IOT); VX Experience Design, Agentic AI Web Dev; Digital, Web, Interface & UX Experience Design

Information Technology
Networking & Data Communications; Cybersecurity; Network Administration and Security; Virtualization; Automated Testing & Monitoring; Computer Forensics & Security; Healthcare Information Systems; Project Management; Product Management; Facilities

Aerospace Technology and Management
Propulsion Systems; Fixed Wing, Helicopter, Advanced Air Mobility, UAS, Space Vehicle Technology; Maintenance Concepts; Technician Training; Safety Management; Airline & Airport Operations, Route Planning; Aviation Business Management; Security; Flight Training; Corporate and Airline Pilot Operations

Industrial Automation, Power, and Control
Designing & Maintaining Automated Systems & Machines; Control System Programming; Protecting Critical Cyber Systems; Robotics in Manufacturing; Integrating Automation Solutions; Automated Safety Systems; Power System Protection & Control Solutions; Electrical Safety & Arc-Flash Hazard Reduction; Smart Sensors & Industrial Internet of Things (IIOT)

Transportation & Automotive
Diesel Systems; Automotive Technology; Collision Repair; Power Sport; Street Rod; Vehicle Electrification

Mixed Reality
Augmented Reality; Virtual Reality; Hybrid Reality; Mixed Reality Visual and Audio; MR Simulations, 3D Modeling; Training Simulations; Drone Surveying and Automation

Technology Management
Business Intelligence Systems; Production and Operations Management; Project Management; Quality Control, Safety and Health Issues, and Statistics.

Education Topics*

COMPUTING TRACK

Computing Trends
Database Systems; UX and Visualization; e-Business, e-Learning & e-Government; Modeling & Simulation; Data Science; Computing Education & Recruitment; Computing Frontiers.

Software Engineering
Software Design and Design Patterns; Software Reliability, Safety & Security Methods; Software Engineering Methodologies; Software Testing; Evaluation & Analysis Technologies.

Medicine & Healthcare
Bioinformatics; Health Informatics; Biomedical Engineering & Sciences; Medical Image Processing & Object Recognition.

Intelligent Systems
Artificial Intelligence; Machine Learning & Deep Learning; Cognitive Computing; Information & Knowledge Engineering;Data Mining; Computer Vision & Pattern Recognition.

Security & Communication
Privacy; Internet Security; Cryptography; Secure Storage and Transactions; Parallel & Distributed Computing; Internet of Things; Wireless/Mobile Communication; Cloud Computing.

Education Topics*

*Additional Education Topics in Each Track

Capstone Projects/Undergraduate Research

Education
Effective Teaching Activities; Interdisciplinary Education; Engaging Undergraduate Students in Research; Industry & Education Collaboration.

Technology in Teaching and Learning
Innovation Strategies; Infrastructure Technologies; Online & Distance Learning; Smart Classrooms; Virtual & Remote Labs; Game-Based Learning.

Accreditation and Assessment
Curriculum Design & Development; Accreditation & Quality Control; Retention & Support Strategies; Educational Innovation, Role of Laboratories.

Diversity and Inclusion Issues
Academic Leadership, Diversity, & Inclusion; Assessing Diversity & Inclusion Programs; Skills Development & Competencies; Retention of Women & Gender Equality.