

DAY 1 // SCHEDULE

2025 UT GRAND CHALLENGES SUMMIT

SESSION	MIRABELLA - G	MIRABELLA - H	MIRABELLA - I	MIRABELLA - J	CAMBRIDGE - A	CAMBRIDGE - B	OAKLEIGH - A	OAKLEIGH - B	BROADLANDS - A	BROADLANDS - B
Session 1a 1:30 – 2:00 p.m.	Rural Expansion of Access to Genetic Counseling and Health Care through AI Innovations (REACH)	Strengthening Rural Governance in West Tennessee	Mobile Interprofessional Tandem Service (MITS) Model to Enhance Audiology and Speech Pathology Care and Outcomes in Rural East Tennessee	Transitioning Gaps, Executive Functioning Impacts, and Assessing the Needs of Neurodivergent Students	Building a Bridge to an Inclusive Future: UTK CLEE's Commitment to Advancing Education Through Belonging, Inclusion and Equity in the classroom	Access to and Success in Secondary Advanced STEM: The State of AP* Programming in Tennessee's Rural Public High Schools	Bridging the Gap: Tailored Distance Education for Rural Addiction Counseling in Tennessee	Equipping Tennessee Teachers with Tools to Support Students' Behavioral Successes	The HEALING Communities Study: Effectiveness of a Community-Engaged Data-Driven Process to Reduce Opioid Overdoses	Pain Sensitivity, Pain Affect, Pain Catastrophizing and Chronic Stress as Predictors of Quantity of Substance Use in People Who Use Methamphetamine and Opioids
Session 1b 2:05 – 2:35 p.m.	Tempo-spatial Analysis of Rural Gentrification in Tennessee	Workforce Challenges in Tennessee's Water and Wastewater Industry	Wellness on Wheels: Bringing Care to Your Community	The Mosaic Program and Neurodivergent Education Transition (NET)	I.D.E.A.L. Citizenry: Innovative Designs that Engage Active Learning for Citizenry		Counselors on the Front: Increasing Tennessee's Addiction Counseling Workforce			Biomarkers Predictive of Vulnerability to Progress from Early Opioid Use to Misuse and Addiction
Session 2a 2:45 – 3:15 p.m.	Strengthening Rural Communities: Using Drones to Deliver Health Care Services	Creating People-Centric Workplaces in Rural Communities	On the Road to Better Rural Health: Outreach, Education and Training to Strengthen Health and Health Care	Embracing Neurodiversity: Addressing Stigma and Promoting Neuroinclusivity in Elementary Education	The Be More Tennessee Initiative: Sustainably Reducing Obesity in 7 Rural Tennessee Counties using Policy, Systems and Environmental Change	Beyond Traditional Boundaries: Introducing 4-H Students to Gen-AI Through Immersive Learning Experiences (ILEs)	Empowering Honors Students to Address Tennessee's Grand Challenges Through Design Thinking	Enhancing Parenting Practices and Child Well-Being: Assessing the Impact of Trauma-Informed Parenting Training through a University-School Collaboration	The Efficient Allocation of Harm Reduction Resources to Prevent Overdose Deaths	Opioid-Induced Epigenetic and Visuocognitive Changes Associated with Neonatal Abstinence Syndrome
Session 2b 3:20 – 3:50 p.m.						From Goals to Graphs: Bridging STEM Education Gaps with Soccer Analytics	Addressing Tennessee's Teacher Shortage: How UT PLAYS and the Be One UT Values are Advancing K-12 Education			
Session 3a 4:00 – 4:30 p.m.	Enhancing Health Care Access and Training Future Nursing Leaders Through a Mobile Health Program	Empowering Rural Communities: Leadership Development and Volunteer Engagement for Enhanced Community Capacity	Feasibility of Implementing Personalized eHealth Program through Fitness Wearable and Application Among Rural Cancer Survivors	Connecting Families in Rural Tennessee with Disability Resources: Rural Disability Resource Network	AI-Driven Precision Medicine: Tackling Rural Health Care Disparities with EHR Insights	Access + Content + Language = STEM Learning for Culturally and Linguistically Diverse Youths (ACL=STEM)	Leveraging the Right Partnerships at the Local Level	Thriving in Tennessee: Empowering Students through MTSS and School Behavioral Health	Nourish Recovery: A Nutrition Education Program for Individuals with Substance Use Disorders	Mapping Recovery Ecosystems at the Local Level to Overcome Addiction
Session 3b 4:35 – 5:05 p.m.	Rural Health and Older Adult Interprofessional Mobile Health Program: Forging Collaborative Partnerships	Connecting Opportunities Through a Global and Local Lens for Rural Tennessee	"We're All in This Together": Exploring Tennessee Farm Family Stress and Mental Health Management		Improving Rural Patient Outcomes by Optimizing Targeted Social Drivers of Health: An EHR-AI Systems Engineering Simulation Approach to Precision Health	Machine Learning Approach to Studying the Intersection of SDoH; Physiological, Psychological Well-being and Academic Performance; and Subsequent Holistic Intervention Development (TennWell Project)				A Mathematics-based Approach to Opioid Epidemiology in Tennessee

LEGEND



Strengthening Rural Communities



Advancing K-12 Education



Overcoming Addiction



Neurodiversity & Disabilities

DAY 2 // SCHEDULE

SESSION	MIRABELLA - A	MIRABELLA - B	MIRABELLA - C	MIRABELLA - D	CAMBRIDGE - A	CAMBRIDGE - B	BROADLANDS - A	BROADLANDS - B
Session 1a 8:00–8:30 a.m.	Unraveling the Interconnection: Substance Use and Health-Related Behaviors among Youth in Tennessee	The Role of Business Organizations and Impact of Business Practices on the Creation of the Opioid Crisis in the Appalachian Region	It Takes a Village: An Ecological Approach to Youth Substance Use Prevention in East Tennessees	The RAIL (Rural Assessment and Intervention Library) System	Addressing K-12 Financial Education Challenges in Rural Tennessee	The Community Schools Solution	Thermal Runaway in Electronic Devices: a Transformational PBL Unit for High School Chemistry	Empowering Mentor Teachers and Leaders Through the GYO Collaboratory
Session 1b 8:35–9:05 a.m.							Innocrate for Innovative K-12 Education in Advanced Materials and Manufacturing on a National Scale	
Session 2a 9:15–9:45 a.m.	Merging Recovery and Education in K-12 and Beyond	Getting Things Done Through Relationships	The Opposite of Addiction is Connection	Project RAISE: An Innovative Partnership to Strengthen Mental Health in Rural Tennessee Schools	Establishing Quality on Rural Schools' Professional Development Choices	Transformative Test Prep: TCAPs test prep in community schools	Addressing Access to Employment and Resources for Individuals with Barriers in Rural Communities toward Workforce Pipeline Development	Equipping Educators for Excellence (E3)
Session 2b 9:50–10:20 a.m.			Expanding Recovery Supports on College Campuses				Promising Pathways for Career and Technical Education in Rural Tennessee	Changing Addictive Landscape with Knowledge Qualification and Exchange in Integrated Social Media Interactions
Closing 10:30–11:30 a.m.	CLOSING KEYNOTE: Dr. Joe Sanfelippo (MIRABELLA - E)							