

# Harnessing the Power of AI Systems in Forensic Science

## July 8-9, 2025

Day 1 | Tuesday, July 8, 2025 | 9:00 AM - 5:00 PM

9:00 AM – 9:05 AM	Opening Remarks and Welcome
9:05 AM – 9:20 AM	Overview of AI and Forensic Science at RTI
9:20 AM – 9:40 AM	Overview of Forensic Science at NIST
9:40 AM – 10:10 AM	<b>Keynote</b> <i>Transformative potential of AI.</i>
10:10 AM – 10:25 AM	Break
10:25 AM – 10:55 AM	<b>Overview of AI</b> <i>Role of AI in modern forensic science.</i>
10:55 AM – 11:55 AM	<b>AI In Action</b> <i>Panel discussion on how AI is used in various industries.</i>
11:55 AM -12:55 PM	Lunch
12:55 PM – 1:05 PM	<b>Introduction to Breakouts</b> <i>Topics will include research, quality management and assurance, laboratory operations and case management, training, evidential analysis and interpretation.</i>
1:05 PM – 1:55 PM	<b>Breakout 1</b> <i>Introductions, small group knowledge sharing activity, and report out.</i>
1:55 PM – 2:45 PM	<b>Use Cases, Risk Management Framework (RMF) and AI tools</b> <i>Guidance for identifying, assessing, and mitigating the risks associated with AI in specific use cases and AI tools for risk assessment, reliability and transparency.</i>
2:45 PM – 3:10 PM	<b>Introduction to Breakout 2 and Short Break</b> <i>Setting the stage for breakout 2.</i>
3:10 PM – 4:40 PM	<b>Breakout 2</b> <i>Use Case Brainstorming, defining AI forensics use cases and identifying potential solutions.</i>
4:40 PM – 5:00 PM	Day 1 Recap

**Day 2 | Wednesday, July 9, 2025 | 9:00 AM - 5:00 PM**

<b>9:00 AM – 9:15 AM</b>	<b>Welcome and Objectives for Day 2</b>
<b>9:15 AM – 10:15 AM</b>	<b>Keynote</b> <i>High-stakes decision-making and court acceptance.</i>
<b>10:15 AM – 10:30 AM</b>	<b>Break</b>
<b>10:30 AM – 11:30 AM</b>	<b>Implementing AI Systems for Forensic Science</b> <i>Attributes of AI systems, testing, evaluation, validation, verification, continuous monitoring and policy implication.</i>
<b>11:30 AM – 12:30 PM</b>	<b>Lunch</b> <i>Lightning round presentations of current and emerging technologies.</i>
<b>12:30 PM – 12:45 PM</b>	<b>Introduction to Breakouts 3 and 4 and Short Break</b> <i>Setting the stage for breakouts 3 and 4.</i>
<b>12:45 PM – 1:50 PM</b>	<b>Breakout 3</b> <i>Court admissibility, reliability and general acceptance.</i>
<b>1:50 PM – 2:15 PM</b>	<b>Breakout 4</b> <i>Report out and summary materials.</i>
<b>2:15 PM – 3:00 PM</b>	<b>Report Out by Breakout Group</b> <i>Each group takes a turn to present findings.</i>
<b>3:00 PM – 3:30 PM</b>	<b>Synthesize Findings</b> <i>Opportunity areas from breakouts.</i>
<b>3:30 PM – 3:45 PM</b>	<b>Break</b>
<b>3:45 PM – 4:45 PM</b>	<b>Closing Panel</b> <i>Path forward for AI in forensic science.</i>
<b>4:40 PM – 5:00 PM</b>	<b>Day 2 Recap</b>