



Training Institute for the Implementation of Genomics Research

## MODULE 1: FOUNDATIONS OF D&I RESEARCH

An introduction to the "know-do" gap in healthcare. This module defines the core principles of Dissemination & Implementation (D&I) science and explores its urgent role in moving genomic discoveries into routine clinical practice.

## MODULE 2: THEORIES, MODELS, AND FRAMEWORKS

A deep dive into the conceptual "roadmaps" of implementation. Focuses on selecting and applying frameworks (like RE-AIM) to structure genomic screening programs and understand the drivers of behavior change.

## MODULE 3: IMPLEMENTATION MEASURES

Focuses on the "how" of evaluation. Participants learn to identify and apply specific metrics to track the utility, feasibility, and organizational alignment of genomic services.

## MODULE 4: QUANTITATIVE STUDY DESIGNS

An exploration of research methodologies tailored for implementation, including hybrid designs and protocol development. Learn to use visualization tools like process mapping to navigate complex healthcare contexts.

## MODULE 5: QUALITATIVE AND MIXED METHODS

Focuses on capturing the "human element." This module covers how to use stakeholder interviews and qualitative data to understand leadership, barriers to adoption, and the role of AI in implementation.

## MODULE 6: IMPLEMENTATION STRATEGIES

The "action" module. It covers the specific techniques (e.g., clinician education, EHR alerts) used to drive the adoption of genomic interventions and how to precisely define them using established reporting standards.

## MODULE 7: FIDELITY AND ADAPTATION

A study of the balance between program consistency (fidelity) and local customization (adaptation). Learn how to track and manage changes made to genomic programs during real-world rollout.