

MSK-GCRT/ARGO Health Informatics Working Group – Training & Capacity Building

Applied Certificate in Health Informatics

Cohort 1 – March 2026



Memorial Sloan Kettering
Cancer Center



MSK-GCRT Certificate in Health Informatics – Program Overview

- ❑ The program is designed to equip learners with the practical competencies required to thrive in the health information technology (HIT) workforce.
- ❑ The program emphasizes digital transformation, EHR implementation, public health systems, research, global health frameworks, and applied informatics skills
- ❑ The curriculum integrates U.S. and African case studies, open-source health IT platforms, and policies governing digital health systems.
- ❑ Graduates emerge ready for roles in EHR support, data analysis, digital health coordination, informatics research, project management, and clinical informatics operations.
- ❑ Classes will be taught by carefully vetted industry and academic experts in the specific fields from MSK and other institutions

MSK-GCRT Certificate in Health Informatics - Program Overview (contd.)

- ❑ **Duration:** 7 Months (28 weeks)
- ❑ **Format:** 1 synchronous session per week (120 minutes) + asynchronous labs/discussion forums
- ❑ **Platform:** Google Classroom (low-bandwidth compatible)
- ❑ **Target Learners:** Healthcare professionals, IT professionals, public health officers
- ❑ **Minimum Entry Requirement:** Bachelor's degree in healthcare or IT field

MSK-GCRT Certificate in Health Informatics – Program Objectives

By the end of this certificate program, graduates will be able to:

- ☐ Explain foundational informatics concepts and global health digital ecosystems
- ☐ Analyze, design, and improve healthcare workflows using health IT tools
- ☐ Apply best practices in data standards, interoperability, and information governance
- ☐ Support or lead EHR/EMR implementation and digital transformation projects
- ☐ Use analytic tools to interpret health data for research, quality improvement, and decision support
- ☐ Apply informatics to improve health outcomes in resource-limited settings
- ☐ Collaborate effectively with clinicians, IT teams, administrators, and policymakers in a multidisciplinary health information technology environment.

MSK-GCRT Certificate in Health Informatics – Benefits of the Certificate

- ❑ **Rapid Workforce Readiness:** Gain practical skills aligned to digital health implementation needs in Nigeria and LMICs
- ❑ **Globally Aligned Competencies:** Curriculum reflects AMIA, WHO Digital Health Guidelines, and global best practices
- ❑ **Career Mobility:** Opens pathways to jobs in hospitals, NGOs, government health programs, research centers, and health-tech companies
- ❑ **Career Advancement:** A certificate in HI boosts competitiveness for clinical, administrative, data, and IT roles
- ❑ **Bridging the Education Gap:** No standalone HI programs exist in Nigeria; this certificate meets a critical skills need
- ❑ **Capstone Project Portfolio:** Learners graduate with real LMIC-focused project artifacts to showcase to employers.

MSK-GCRT Certificate in Health Informatics – Career Outlook

Graduates are prepared for a broad range of roles, including:

- ☐ Health Informatics Analyst
- ☐ EHR Implementation Specialist
- ☐ Clinical Documentation Improvement (CDI) Specialist
- ☐ eHealth Program Officer
- ☐ Telehealth Coordinator
- ☐ Data Quality Officer
- ☐ Health Information Systems Manager
- ☐ Digital Health Research Assistant
- ☐ Public Health Informatics Associate
- ☐ Interoperability and Standards Technician
- ☐ Quality Improvement & Case Management Data Associate

MSK-GCRT Certificate in Health Informatics – Program Structure

- ❑ **Duration:** 7 months (26 – 28 weeks)
- ❑ **Delivery:** Fully Online, Synchronous + Weekly Asynchronous tasks
- ❑ **Total Courses:** 8 Core Courses + 4 Electives
- ❑ **Weekly Commitment:** 4 – 6 hours
- ❑ **Assessment:** Quizzes, practical assignments, group activities, final capstone
- ❑ **Graduation requirement:**
 - 6 Core Courses
 - 2 Electives
 - Capstone Project
 - Minimum 80% attendance

All courses include low-bandwidth alternatives, live instruction, practical labs, discussion forums, and Nigeria/LMIC-oriented assignments.

MSK-GCRT Certificate in Health Informatics – Core courses

- ☐ Foundations of Health Informatics
- ☐ Health Data Standards and Interoperability
- ☐ Electronic Health Records (EHRs) & Health IT Systems
- ☐ Public Health Informatics & Global Population Health
- ☐ Clinical Decision Support Systems (CDSS) & AI in Healthcare
- ☐ Data Security, Privacy & Ethics
- ☐ Clinical Workflow & Nursing Informatics
- ☐ Research Informatics & Data Management

MSK-GCRT Certificate in Health Informatics – Electives courses

- ☐ Telemedicine & Digital Health
- ☐ Imaging Informatics
- ☐ Pharmacy Informatics
- ☐ Laboratory & Pathology Informatics

CAPSTONE PROJECT

Students will design and present a real-world informatics solution addressing challenge(s) in Nigeria or LMIC settings.



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