



Residency Research Rotation at the Center for Discovery and Innovation

**Applications and Research
Rotation Cycle are open
YEAR ROOUND**

For more information,
visit our website



Or contact
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Are you a PGY-2 resident looking to gain hands-on experience in cutting-edge medical research? The Residency Research Rotation at the Center for Discovery and Innovation (CDI) offers a unique opportunity for residents to engage directly with expert faculty and fellows in a collaborative research environment. This immersive, mentored experience will deepen your understanding of translational research and set the foundation for your future scientific career.

Ready to take your research career to the next level? Apply today!

CLINICAL NEED DRIVES OUR SCIENCE



Residency Research Rotation

Overview

The Residency Research Rotation at the Center for Discovery and Innovation (CDI) offers PGY-2 residents an immersive, mentored experience in Translational Research. This elective provides residents the opportunity to engage directly with CDI faculty and fellows, gaining hands-on exposure to cutting-edge research across a range of disciplines. The rotation is designed to foster the development of research skills and deepen understanding of the scientific process, with the expectation that residents will continue their research project beyond the elective and contribute to scientific publications or presentations.

The CDI's unique research model focuses on translating scientific discoveries into clinical applications. Residents who participate in this rotation will be involved in one of the four thematic research areas:

- **Cancer:** Exploring the molecular mechanisms behind hematologic malignancies and solid tumors to enhance treatment and prevention.
- **Infectious Diseases:** Developing novel strategies to combat high-threat bacterial, fungal, and viral infections.
- **Immunology:** Advancing immunotherapies, including cell-based approaches, to improve clinical outcomes in immunological diseases.
- **Behavioral and Neurocognitive Health:** Investigating innovative interventions for behavioral and neurocognitive conditions to improve mental health care.

Rotation Details

- Location: CDI Campus - 111 Ideation Way, Nutley, NJ 07110
- Duration: Minimum of 3 weeks
- Mentorship: Residents will be assigned to a research team and work closely with faculty mentors, postdoctoral fellows, and biostatisticians. The rotation provides a structured environment with multiple opportunities to engage with experts in the field.

Key Components

- **Weekly Training Seminars:** Workshops covering research methodologies, systematic reviews, meta-analysis, and manuscript preparation.
- **Mentorship Meetings:** Residents will have weekly project meetings with their primary mentor and postdoctoral fellow, ensuring personalized guidance throughout the rotation.
- **Biostatistics Support:** Weekly meetings with biostatisticians to support data analysis and research design.
- **Research Deliverables:**
 - By the end of Week 1: Complete a literature review on a selected topic, potentially contributing to a larger research project.
 - By the end of Week 3: Draft the introduction to a manuscript, providing a foundation for further academic output.
 - Post-Rotation: Expected to finalize a research project for submission as a scientific abstract or manuscript.

Faculty Supervision

Each resident will work under the supervision of a primary/principal investigator and a postdoctoral fellow in their chosen research division. Mentors will provide ongoing guidance and ensure that residents make meaningful progress toward their research goals. The rotation emphasizes both independent research and collaborative learning.

Application Process

Eligibility:

End of PGY 1 year or PGY-2 residents with an interest in clinical research and a strong commitment to furthering their research career.

Open to Hackensack Meridian Health Affiliated Institutions.

Required Documents (PDF format):

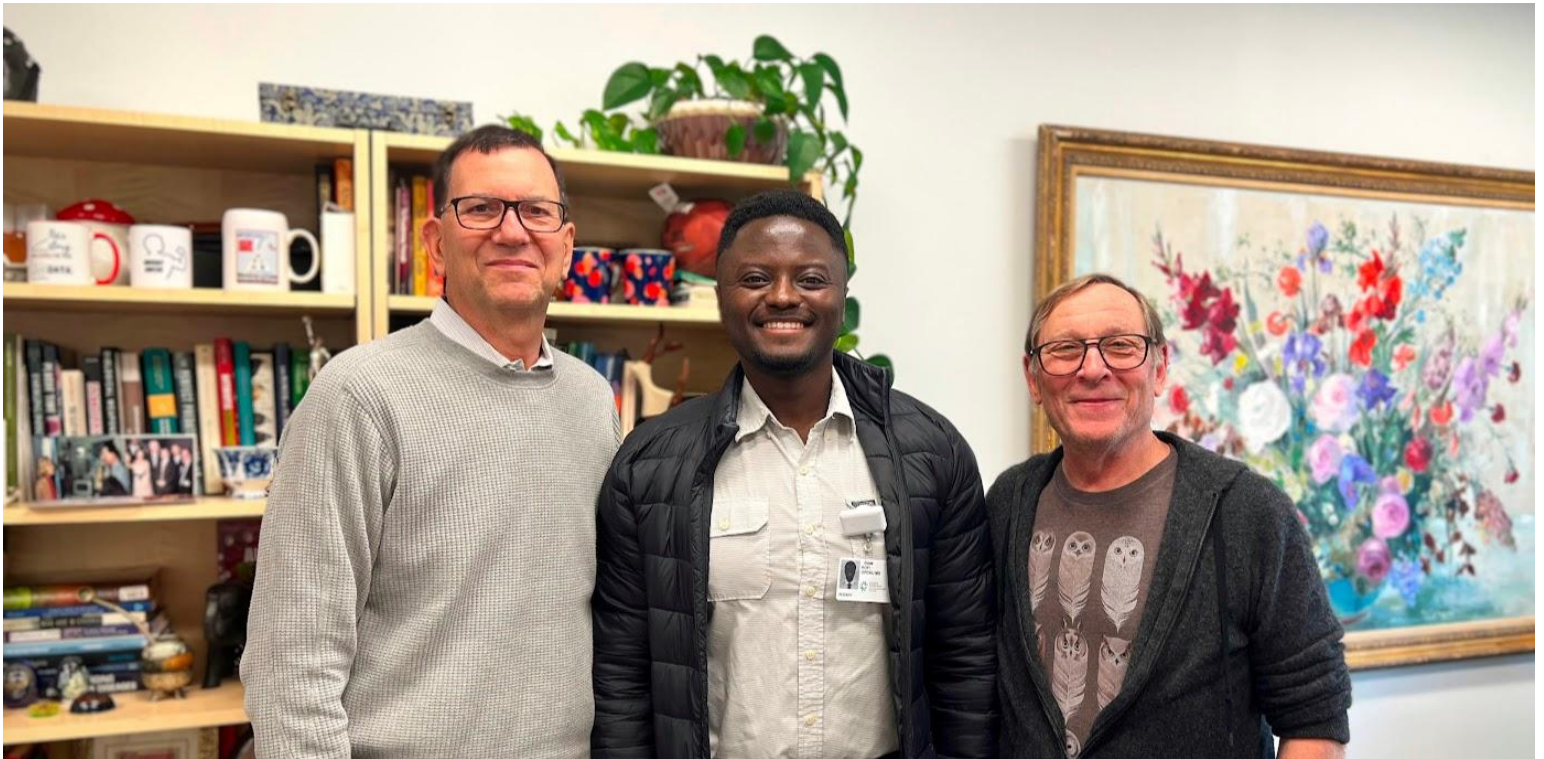
- * Curriculum Vitae (CV - 2 pages max)
- * Personal Statement (500 word limit) detailing interest and availability for the rotation.
- * Confirmation from Program Director supporting the elective.

Preferred Qualifications:

Strong interest in clinical research career or fellowship.
Prior research experience.
Minimum 3-week continuous rotation commitment



SUCCESS STORY



Internal Medicine Resident Advances Bird Flu Surveillance at Hackensack Meridian Health's Center for Discovery and Innovation

Kofi Boakye Opoku, an Internal Medicine Resident at JFK-Raritan Bay Medical Center, part of the Hackensack Meridian Health (HMH) network, recently completed a research rotation at the Center for Discovery and Innovation (CDI), contributing to a critical public health initiative. As part of his research project under the guidance of Drs. David Perlin and Barry Kreiswirth (pictured in photo above), Opoku helped establish in-house capabilities for tracking avian influenza (Bird Flu) within the HMH network. His work not only focused on detecting specific flu subtypes but also on identifying drug-resistance markers and transmission mutations, enhancing the health system's preparedness against emerging viral threats.

The Residency Research Rotation program, conceived by CDI's Chief Operating Officer, Ms. Alla Rabinovich, and Dr. Mayer Ezer, Internal Medicine Program Director at Raritan Bay Medical Center, offers residents an immersive, mentored experience in translational research. This elective enables participants to collaborate with CDI faculty and fellows, gaining hands-on exposure to cutting-edge scientific investigations across multiple disciplines. Designed to cultivate research proficiency and deepen scientific understanding, the program encourages residents to extend their projects beyond the rotation, contributing to scientific publications and presentations.

This initiative aligns with CDI's guiding principle: "Clinical need drives our science," ensuring that medical research remains focused on real-world healthcare challenges and patient impact.