

# MEDICINE: PRACTICE & RESEARCH (MD-PHD)



## KEY SKILLS

- Analytical
- Clinical
- Communication
- Community Outreach
- Critical Reasoning
- Data Analysis
- Inter-Professional
- Leadership
- Problem-Solving
- Research



## CONCENTRATIONS/SPECIALIZATIONS

- Clinical Research
- Critical Care
- Dermatology
- Emergency Medicine
- Family Medicine
- Health Policy
- Health Promotion
- Internal Medicine (General or Subspecialties)
- Medical Technology
- Neurology
- Obstetrics/Gynecology
- Pathology
- Pediatrics
- Psychiatry
- Public Health
- Radiation Oncology
- Surgical (General or Subspecialties)



## TRAINING PATH

- MD-PhD training: 7-8 years
- Specialty clinical & research training (residency/fellowship): 3-7 years
- Ideal undergraduate degrees:
  - Biological Sciences (BS)
  - Chemistry (BS)
  - Cognitive Neuroscience (BA)
  - Nutrition Science (BS)
  - Psychology (BA)
  - Public Health (BS)



## RESEARCH RESIDENCY PROGRAMS

There are a number of “research residency programs” specifically developed for physician-scientists.

After completing specialty clinical training (e.g. medicine or pediatrics), most physician-scientists pursue subspecialty clinical training (e.g. cardiology or hematology-oncology) and postdoctoral research that typically combines protected research time with intensive clinical training. Programs usually offer:

- **Shortened residency (specialty) training** - integrated programs usually shorten residency by one year
- **Integrated research & clinical training** - programs usually offer mentoring to choose a lab early in training so they can begin research right away when in the lab full-time
- **Guaranteed subspecialty fellowship position** in desired field
- **Special financial support** - some programs offer support towards both salary and research



## SAMPLE STUDENT ORGS

- Delta Epsilon Mu
- Humanitarian Mapping Society
- GlobeMed at GW
- GW Red Cross Club
- GW MEDLife
- GWU Pre-Health Association
- Student National Medical Association



## SAMPLE EMPLOYERS

- American Red Cross
- Center on Aging, Health, Humanities
- Children’s National Medical Center
- District of Columbia Developmental Center for AIDS Research (DC D-CFAR)
- Elizabeth Glaser Pediatric AIDS Foundation
- Georgetown University Hospital
- Global Health Strategies
- Gryphon Scientific, LLC
- GWU Hospital
- Howard Hughes Medical Institute
- Howard University Hospital
- ICF International
- Intercept Pharmaceuticals
- International Medical Corps
- Johns Hopkins University
- Kaiser Permanente
- MD Anderson Cancer Center
- MedStar Washington Hospital Center
- National Alliance on Mental Illness (NAMI)
- National Institutes of Health
- Pan American Health Organization
- Sabin Vaccine Institute (SVI)
- US Food and Drug Administration (FDA)
- Veterans’ Administration
- Virginia Hospital Center
- Washington Institute of Surgical Education & Research (WISER)
- Whitman-Walker Health
- World Health Organization



## PROFESSIONAL ORGS

- American Medical Association
- American Physician Scientists Association
- Association of American Medical Colleges (AAMC)
- National Association for MD-PhD Programs
- NIH Medical Scientist Training Program

