

HEALTH DATA SCIENCE



KEY SKILLS

- Analytical
- Assessment & Evaluation
- Attention to Detail
- Communication & Presentation Skills
- Data Visualization
- Machine Learning
- Quantitative Reasoning
- Statistical Programming



CONCENTRATIONS/ SPECIALIZATIONS

- Biostatics & Bioinformatics
- Biotechnology
- Drug Discovery
- Genetics & Genomics
- Medical Image Analysis
- Patient Health Monitoring
- Predictive Analysis
- Public Health



SAMPLE DEGREES

- Biostatistics (PhD)
- Bioinformatics (PhD)
- Biological Sciences (BS)
- Computational Biology (PhD)
- Biomedical Engineering (BS, MS)
- Pre-Medical Professional Concentration (BS, MS)
- Software Engineering (MS)



SAMPLE OCCUPATIONS

- AI Researcher
- Biomedical Engineer
- Chief Medical Information Officer
- Clinical Data Manager
- Clinical Research Analyst
- Consultant
- Database Administrator
- Genomics Data Scientist
- Health Informatics Specialist
- Health Policy Analyst
- Healthcare Data Scientist
- Healthcare Quality Analyst
- Machine Learning Scientist
- Pharmacoeconomics Analyst
- Performance Analyst
- Senior Researcher



POSSIBLE WORK SETTINGS

- College/University
- Community Health Clinic
- Consulting Firm
- Government Agency
- Hospital
- Laboratory
- Local Health Department
- Nonprofit/Non-Governmental Organization
- Public Policy Arena
- Research Department



SAMPLE STUDENT ORGS

- GW Data Club
- Trustworthy AI at GW
- GW Student Organization of Biomedical Scientists
- Data Science Association (GW DSA)
- Help For All
- Humanitarian Mapping Society



PROFESSIONAL ORGS

- American Statistical Association
- Association of Professional Healthcare Analysts (AphA)
- Healthcare & Data Analytics Associations
- Institute for Operations Research and the Management Sciences
- International Society for Computational Biology
- National Association of Health Data Organizations



SAMPLE EMPLOYERS

- Accenture
- Assurety Consulting & Solutions
- Athena Health
- Booz Allen
- Casana
- Deloitte
- Epic
- IBM
- ICON plc
- Johns Hopkins University
- LabCorp
- MedStar Health
- Omega Healthcare Management Services
- Optum
- Oracle
- Pfizer
- Phillips
- Quest Diagnostics
- Special Olympics
- National Institutes of Health (NIH)
- Syneos Health
- The George Washington Hospital
- United Healthcare
- U.S. Department of Health & Human Services
- U.S. Department of Veterans' Affairs
- World Health Organization

