# **Call for Applications for Biomedical Data Science**

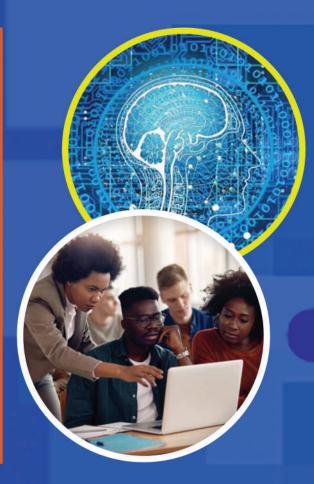
[Data Science for Child Health Now in Ghana (DS-CHANGE) Training Program]

### **DEGREES**

Biomedical data science the interdisciplinary field of inquiry in which quantitative and analytical approaches, processes, and systems are developed and used to extract biomedical knowledge and insights from increasingly large and/or complex sets of data.

The Kwame Nkrumah University of Science Technology

(KNUST) applications for trainees to postdoctoral training to complete an MPhil or PhD in Biomedical Data Science with focus areas on imaging, public health, or computational biology.



## **BACKGROUND**

KNUST in collaboration with the National institute for Mathematical Sciences and in partnership with the University of Washington and Seattle Children's in the USA has been awarded a training grant by the United States National Institutes of Health (NIH) and Fogarty International Centre. Our program is part of the United States NIH Data Science Initiative for Africa or DSI-Africa. The Data Science for Child Health Now in Ghana (DS-CHANGE) training program is building data science research capacity for Ghana and West Africa.













# **Call for Applications for Biomedical Data Science**

[Data Science for Child Health Now in Ghana (DS-CHANGE) Training Program]

## REQUIREMENTS FOR APPLICANTS

- At minimum, completion of an undergraduate degree is required. We will accept applications from individuals with MPhil or PhD degrees in relevant areas. ▶ Relevant disciplines invited to apply for this program, including but not limited to health-related fields
  - (medicine, nursing, public health, pharmacy, other clinical fields), mathematical sciences (statistics, economics, mathematics), or engineering fields (computer science, engineering).
- Evidence of training/use of computing programming

**Excellent quantitative skills** 

- Evidence of training in calculus
- Excellent written and spoken English

(see below)

last degree.

- Meets the requirements of current program to which they are applying
- Individuals in the early stages of their career, e.g. less than 10 years from their
- Junior faculty and existing employees are eligible to apply, but must be

relieved from their work duties while they complete this full-time program.

- Preferences will be given to applicants who: Submit a letter by an employer indicating they will have a position following training in Ghana at a Ghana academic, government or other business/non-profit that focuses on health and will leverage
  - data science training. Have experience working in a data-intensive area

Demonstrate evidence of an existing commitment to furthering biomedical data science in Ghana or

Africa is strongly preferred.

National Institute for Mathematical Sciences







WASHINGTON | Seattle Children





### [Data Science for Child Health Now in Ghana (DS-CHANGE) Training Program] OPPORTUNITY FOR FINANCIAL SUPPORT Based on initial performance, a select number of trainees will receive funding through

Biomedical Data Science

top 10 problems in child health in Ghana including (1) birth defects (orofacial clefts), (2) injury control and prevention, or (3) malaria. The DS-CHANGE training award will be for for 2 years (MPhil) or 4 years (PhD) and will

Project funds

and books

the U.S. NIH training grant. Funded DS-CHANGE trainees will have access to a multidisciplinary team of faculty at KNUST and UW with expertise in data science and who will support biomedical data science trainees who choose to work on one of the 3

include: Tuition and fees at KNUST Travel expenses for a quarter of learning at

- during training at KNUST Travel funds to present at an
- international conference

Stipend for living expenses

- APPLICATION PROCESS AND

A laptop, coverage of publications costs

the University of Washington, Seattle, WA

#### SELECTION AND START DATE SUPPLEMENTAL MATERIALS Selection for entry into the KNUST Biomedical Trainees interested in the Biomedical Data Science Data Science program will be competitive. program, should apply to one of the following existing

programs at KNUST: Biodata Analytics and Computational Genomics Scientific computing and Industrial modeling

- In addition to the materials for the above program, interested applications should also include a 2-page letter addressed to "DS-CHANGE Biomedical Data Science
- Committee" and explain: Your background and its relevance to this program
- Your plans or vision for your work after you complete

Why and how this program will facilitate your career

- And indicate your focus area: public health, imaging, or computational biology
- courses begin and will be competitive

Selection of DS-CHANGE trainees will be after

- Finalists for both the degree program and the DS-CHANGE training slots will participate in a short Zoom interview with a selection panel.
  - We encourage applications from those underrepresented in data science (e.g. women)
  - The first cohort will start in January 2023.



Applications after the deadline will not be

DEADLINE FOR SUBMITTING YOUR APPLICATION IS NOVEMBER 30TH, 2022.



UNIVERSITY of

WASHINGTON



