

Professional Job Opportunity – Now

Opportunity (immediate, paid consultancy/part-time, span @ 12 months, remote-work, flexible)

Be a member of a medical informatics team for a federally-funded pilot project (strong assurance of extended and expanded continuation) that pertains to population health disparities and inequalities among select minority demographics in an 8-state region of USA.

There are immediate opportunities for two distinct types of professionals:

- persons with backgrounds and experience in clinical medicine, nursing, social work, particularly in working with select minority populations in USA
- persons with experience in specific areas of computer science and software engineering

This project is through a US federal agency (DHHS), administered through a US medical school. This is phase 1, a pilot project, duration upwards of 12 months, for something that is intended to be continued (5-year-plus). Work will commence in summer of 2022, as early as June 2022.

Project subject area:

Population Health Disparities and Inequalities among select minority populations in a multi-state region of USA

Project tasks and objectives:

[1] Acquire and analyze data on health histories and incidents of specific disease types, examining environmental toxin exposures and other psychophysiological factors identified as contributing to such diseases. The planned pathology focus within the pilot project is upon a broad class of disorders and diseases: cardiovascular, neurological, and cancer.

[2] Identify problems faced by those populations and their healthcare providers for achieving effective diagnostics and treatment, communication and education, with special emphasis upon social, cultural, educational barriers, prejudices, and other factors that often lead to inadequate early-stage detection, diagnosis and subsequent treatment.

[3] Develop algorithms and models for a bioinformatics system that will aid in identification of attributes within population groups that can assist both patients and providers in achieving better means for avoidance of such diseases and for earlier diagnosis and treatment.

The goal is to identify and refine information resources that will provide a practical and socially feasible toolset for building proactive healthcare measures that improve outcomes and futures in these population groups and for the general population as a whole.

Population segment focus:

Black, Native People and Migrant Workers (Hispanic and other groups) in these states: MI, IL, OH, IN, KY, TN, WV, VA, with concentration upon Michigan, Illinois (Chicago), Tennessee and Virginia.

Employment specifics:

- Part-time, flexible in schedules, allowing for remote work.
- Requiring appropriate communication, writing, and computer-application skills.
- English language sufficient, but Spanish language proficiency is a plus.
- No travel is foreseen to be required but some may be possible and desirable.

Expected work tasks:

[1] For someone with RN, NP, DO, MD, or potentially also MSW or LCSW qualifications, and with experience working with indicated population groups and/or organizations/agencies working closely with such persons:

- A selection or combination of the following:
- Information acquisition and analysis, using publicly-accessible databases and documents
- Some interviewing, some writing, attending of online discussion meetings and conferences
- Finding data sources, communicating with diverse people, establishing good rapport
- [Optional, TBD] Some onsite meetings and conferences

[2] For someone with software engineering, programming and in particular “machine learning” skills:

- Assisting in design and development of architecture and early-stage prototype for an application that performs certain pattern recognition and training tasks (comparable, analogous with image and text error-correction and synthesis)
- Knowledge of artificial intelligence and neural networks including Bayesian, VAE GAN models will be desirable
- Using data models similar to EHR (electronic health records) and related public health information sources
- Programming skills desirable: Python, Javascript, Lisp, XML models and protocols

Timeframe:

This is an immediate need for completing the Project Team.

Need now, ASAP --- discussion, decision, and brief bio (resume)

Contact:

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Interview discussion may be by phone or using one of several internet chat methods

Time is flexible including weekends and evenings