Position Description: Post-Doctoral Associate
100% position (40 hours/wk), 04/01/2019 – 01/31/2023
Salary DOQ

Job Description:

This position aims to investigate how to personalize statin treatment plan using big-data (including insurance claims and electronic health records), machine-learning, and artificial-intelligence approaches, and evaluate outcomes using clinical trial simulations.

1. Extract, pre-process, and clean electronic health records or claims data to support machine-learning projects.
2. Develop prediction models and conduct data analyses in OptumLabs Data Warehouse
3. Review literature, current evidence, and related documents to support the research goal.
4. Conduct evaluation studies using clinical trial simulations
5. Synthesize and interpret results
6. Writing manuscripts, supervising students, helping to manage and organize the interdisciplinary project team, working with computational and clinical collaborators, and other work in leadership.

Essential Qualifications:

The successful applicant must be able to:

- Holding a PhD, MD degree or relevant
- Use code and scripts to pre-process data and develop software tools for data-analysis.
- Show experience in software development, data handling, statistical data analysis, and machine learning projects
- Demonstrate knowledge of, operating systems, programming/application development tools, database management systems, and large-scale or distributed computing

Preferred Qualifications:

- Pharmacy or other healthcare related graduate degree/background
- Programming in Matlab and/or other computer language, experience in pre-processing medical data to support data mining tasks
- Experience in claims data and electronic health records
- Graduate level coursework in computer science or a closely related field
- Have experience in simulation studies
- Commitment for more than a year

Apply to:

Address questions to:
Dr. Chih-Lin Chi, Ph.D., MBA, Principal Investigator
University of Minnesota School of Nursing
___5-140___Weaver-Densford Hall
308 Harvard St. SE, Minneapolis, MN 55455
Phone: (612) _624-5113; Email: cchi@umn.edu

Closing date for receipt of application: Open until filled.