

### **Duties and Responsibilities**

The Barbara Ann Karmanos Cancer Institute (KCI) (<https://www.karmanos.org/>) is an NCI-designated Comprehensive Cancer Center dedicated to the prevention, early detection, treatment, and eventual eradication of cancer. KCI is affiliated with Wayne State University School of Medicine (WSUSOM, <https://www.med.wayne.edu/>), which has the largest single-campus medical school in the country. WSU (<https://wayne.edu/>) is a Carnegie level 1 institution and a premier, public, urban research university located in the heart of Detroit where students from all backgrounds are offered a rich, high-quality education.

The project aims to develop an innovative metabolite identification algorithm for metabolomics using liquid or gas chromatography coupled with mass spectrometry (LC/GC-MS) by addressing two important components of data analysis: peak detection and compound identification.

The postdoctoral fellow will work primarily with Dr. Seongho Kim and have opportunities to collaborate with members of Biostatistics & Bioinformatics Core, KCI and Oncology department at WSUSOM. The candidate is expected to work on developing statistical/computational methods and software packages for analyzing LC/GC-MS-based metabolomics data. The position will be offered as one-year appointment, renewable once for a total of up to two years, subject to funding availability. The earliest start date of this project would be September 15, 2021.

### **Position Qualifications**

The postdoctoral fellow is expected to have a Ph.D. degree in Statistics, Biostatistics, Mathematics, Bioinformatics, Computer Science, or other relevant disciplines, with strong quantitative or computational research background, excellent oral and written communication skills, and experience in writing scientific papers. The candidate is expected to be proficient in R.

Although not required, knowledge for one or multiple of other popular programming languages (e.g., C, C++, FORTRAN, JAVA, MATLAB, Python, etc.), experience in analyzing Big Data or omics data, working in high-performance computing and deep learning, and developing an R package or any other software packages is preferred.

### **Lab Website**

<http://mrr.wayne.edu/>

### **Application Instructions**

Please send your cover letter and CV to Dr. Seongho Kim ([kimse@karmanos.org](mailto:kimse@karmanos.org)) with the subject line: **2021 Postdoc Application**. Applications will be reviewed on a rolling basis until the position is filled.