



## CANCER INSTITUTE

Wayne State University

### LETTER OF ANNOUNCEMENT

#### Senior Biostatistician / Bioinformatician Faculty Position

##### Job description

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The Department of Oncology at the Wayne State University (WSU) School of Medicine and the Division of Population Sciences of the Barbara Ann Karmanos Cancer Institute (KCI) (an NCI-designated Comprehensive Cancer Center) invites applications for a **tenure track position at the Associate Professor or Full Professor level**. Candidates must have a PhD in biostatistics and/or bioinformatics to support the cancer center faculty in basic, clinical, and population research studies. A successful candidate with leadership and faculty mentoring experience is expected to serve as a senior member of the Biostatistics and Bioinformatics Core (BBC) at KCI. Core directorship may be considered depending on the expertise of the candidate. The position is a full-time tenure-eligible position through the Department of Oncology of Wayne State University School of Medicine.

The Biostatistics and Bioinformatics Core (BBC) provides expertise in bioinformatics and statistical science to ensure scientific rigor in study design, bioinformatics, statistical analysis and interpretation of cancer research studies as listed below:

- Experimental designs for *in vitro* and *in vivo* studies, bioinformatics investigations, clinical trials and observational studies in collaboration with Cancer Center investigators;
- Statistical and bioinformatics analyses of cancer research data and collaborations with investigators on interpretation of results;
- Statistical reporting to investigators;
- Written statistical considerations sections for grant proposals and manuscripts in collaboration with investigators;
- Bioinformatics pipelines and complex workflows (alignment, variant calling, variant annotation, copy number analysis, gene fusion, etc.), validating and documenting bioinformatics pipelines, algorithms and tools in compliance with clinical accreditation requirements (i.e., CAP), eloping and implementing applications to support variant annotation and report generation to streamline clinical data review and reporting, and integration of various data resources to support clinical workflows.
- Bioinformatics components of clinical NGS workflows, providing technical expertise to assist in clinical review of assay quality metrics, results and other workflow troubleshooting, providing bioinformatics analyses, summaries and visualizations for quality management,

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- Collaborating with institutional IT and computing personnel to maintain Biostatistics and NGS server hardware and software.
- Statistical and/or bioinformatics presentations to oncology trainees and cancer researchers in venues such as journal clubs, seminar series and grand rounds presentations;
- Instruction in bioinformatics and biostatistics in formal courses;
- Developing novel bioinformatics algorithms and methods for specific KCI projects for the analysis of high-throughput data (mRNA, proteomics, methylation, etc.) including meta-analysis and data integration of multiple data types;
- Evaluation of new and conventional statistical methodology for use in KCI research projects, application or adaptation of new methods as required and development of new methodology when necessary.

The successful candidate will spend the majority of their time in collaboration with KCI investigators to assure appropriate statistical considerations and data management of proposed clinical trials in compliance with KCI standards. They will oversee scientific collaboration and provide biostatistical/ bioinformatics expertise in answer to concerns raised by the KCI Protocol Monitoring and Review Committee (PRMC).

Applications will be reviewed beginning October 01, 2022, and the position will remain open until filled.

Further details are available by contacting:

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### **Barbara Ann Karmanos Cancer Institute (KCI)**

Karmanos Cancer Institute, headquartered in Detroit, understands that beating cancer means bringing together the best. Cancer is a complex disease that demands complex care. With 16 locations throughout Michigan and Ohio and proudly a part of McLaren Health Care, Karmanos is the largest provider of cancer care and research in Michigan. Cancer patients have increased access to advanced cancer care in communities throughout the state and northern Ohio. This provides an extra level of comfort and peace of mind to patients and their families, knowing they can receive the best care locally.

Caring for approximately 12,000 new patients annually and conducting more than 800 cancer-specific scientific investigation programs and clinical trials, Karmanos is among the nation's best cancer centers. Karmanos offers one of the largest clinical trials program in the nation, giving patients access to more than 250 promising new treatments often not found at other hospitals or health organizations.

Through the commitment of 1,000 staff, including nearly 300 faculty members, and supported by thousands of volunteer and financial donors, Karmanos strives to lead in transformative cancer care, research and education through courage, commitment and compassion. Our long-term partnership with the Wayne State University School of Medicine enhances the collaboration of critical research and academics related to cancer care.

More information can be found at [www.karmanos.org](http://www.karmanos.org).

### **Wayne State University (WSU)**

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WSU has the largest single-campus medical school in the country. WSU 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 WSU School of Medicine is located in midtown Detroit, one of the dynamic urban communities leading the revitalization of the city. The metropolitan area provides a cosmopolitan environment with rich cultural offerings, strong schools and outstanding affordable housing in our beautiful Great Lakes region. Our deep-rooted commitment to excellence, collaboration, integrity, diversity and inclusion creates exceptional educational opportunities preparing students for success in a diverse, global society. WSU encourages applications from women, people of color, and other underrepresented people. WSU is an affirmative action/equal opportunity employer. All qualified applicants will receive consideration of employment without regard to race, color, religion, sex, national origin, age, disability, veteran status, or any other characteristic protected by law.