RUTGERS
Center for Advanced
Biotechnology and Medicine

Tenure-Track Assistant Professor in Microbiome Bioinformatics at Rutgers University

The Center for Advanced Biotechnology and Medicine (CABM) at Rutgers University seeks an outstanding candidate for a new full-time, Tenure-Track Assistant Professor faculty position with expertise in Microbiome Bioinformatics. CABM, founded in 1985 has an outstanding track record in fundamental biomedical research and includes faculty within Rutgers Biomedical and Health Sciences (RBHS) and Rutgers–New Brunswick. This position can have a tenure home in one of many departments in the Schools comprising Rutgers Biomedical and Health Sciences (RBHS).

We are part of a vibrant and interactive research community at Rutgers, an elite research institution, topping $754 million in annual research funding (FY2019). The Rutgers life and biomedical sciences community includes over 200 faculty members in different departments within Robert Wood Johnson Medical School, School of Arts and Sciences, School of Environmental and Biological Sciences, Ernest Mario School of Pharmacy, School of Engineering as well as within institutes including the New Jersey Institute for Food, Nutrition, and Health (IFNH), Human Genetics Institute of New Jersey (HGINJ), Waksman Institute of Microbiology, Institute for Quantitative Biomedicine, Cancer Institute of New Jersey (CINJ), Child Health Institute of New Jersey (CHI), Rutgers Institute for Infectious and Inflammatory Diseases, and the NIH-funded Clinical and Translational Science Institute leading the New Jersey Alliance for Clinical and Translational Science (NJ ACTS), with Princeton University and the New Jersey Institute of Technology. The candidate will play a leading role in the recently founded Rutgers University Microbiome Program (RUMP).

Our faculty members drive federally funded research programs in broad areas of biomedical science including protein structure and engineering, cancer, computational, developmental, evolutionary, molecular, neurobiological and neuropsychiatric, population, microbiological, reproductive, statistical, and epigenetic research, conducting studies in humans, mice, zebrafish, fruit flies, nematodes, yeast, bacteria and viruses. We seek individuals with research interests that will complement and/or expand our existing strengths, with special emphasis on work related to the human microbiome.

The successful candidate will be provided with a competitive start-up package, access to high-performance computing clusters and other core resources, and modern dry-laboratory space at CABM, and will be expected to develop and maintain a strong, externally funded research program, and participate in collaborative projects with other Departments and Institutes across

the university. Major duties and responsibilities include developing a robust research program to conduct a broad range of microbiome studies, including studies related to human health, development, and disease. Applicants with translational research interests relevant to metabolic disorders, cancer, or neurological disease are encouraged to apply. Research involving microbiome-derived drug discovery, related computational research for systems biology and/or network modeling, and extensions into plant, animal and environmental systems also is of interest. Although the major focus is bioinformatics development, having a wet-laboratory based program for data generation and analysis also could be desirable within the bioinformatic context. The successful candidate will also be expected to support the educational goals and activities of Rutgers University through teaching and service, including participation in the teaching of professional, graduate, and undergraduate students, and mentorship of trainees. The successful candidate will gradually assume teaching responsibility commensurate with the teaching load of other tenure-track faculty in the department. Salary will be commensurate with experience.

Qualified candidates must have a Ph.D. or equivalent graduate degree in Computational Biology, Mathematics, Evolutionary Biology, Molecular Biology, or a related discipline with at least 3 years postdoctoral research experience related to the microbiome or related field, a demonstrated record of significant research, the potential to make substantial contributions as an independent investigator, and a commitment to teaching undergraduate and graduate students. Junior candidates with current funding or grants under review are preferred. Prior experience in obtaining external support for large-scale computation, and the development and maintenance of shared data analytic services is also desirable. In addition, this position requires excellent presentation skills, strong technical writing skills, and proficiency in using informatic platforms for data analysis. Ability to develop bioinformatic tools, and lead tool development projects, including computational pipelines, and build reference databases is critical. An outstanding publication record, consistent with the candidate's training and experience is required. Must possess expertise and technical skills necessary to successfully conduct studies involving: 16S rRNA sequencing, metagenomics, metabolomics, and studies of expression of individual genes, and whole genome-wide analytical tools. Strong operational knowledge of bioinformatic platforms used in the analysis of microbiome and metagenomic data, as well as the ability to develop new software for analysis and pipelines is required.

Research programs utilizing interdisciplinary and translational approaches that develop interactions with the New Jersey Institute for Food, Nutrition, and Health (IFNH), the Rutgers Institute for Translational Medicine and Science, and the Rutgers Cancer Institute of New Jersey (CINJ), and the clinical departments within RBHS are encouraged.

Applicants should submit: 1) a letter of interest directed to the Faculty Search Committee; (2) a curriculum vitae; (3) a one-page summary of important contributions to science; (4) a two-page description of future research plans; (5) statement of teaching philosophy; and (6) full contact information for at least three references. All offers of employment are contingent upon successful completion of all pre-employment screenings. Review of applications will begin on March 1, 2021 and continue until the position is filled, but timely submission of materials

through the ROCS portal at https://jobs.rutgers.edu/postings/125973 is required for full consideration. Women and minorities are encouraged to apply.

Rutgers is a member of the AAU, the CIC, and the Big Ten, is an equal employment opportunity and affirmative action employer, and boasts diversity among students, faculty, and staff. We are deeply committed to increasing diversity and especially encourage applications from women and minority scholars.

Rutgers is located at the center of the Boston to Washington, DC corridor, with access to New York, Philadelphia, and the New Jersey shore within an hour. The region is home to world-class universities, numerous pharmaceutical and biotech research facilities and corporate headquarters. Central New Jersey offers vibrant and diverse cultural activities, outstanding public and private schools and opportunities to live in urban, suburban or small-town settings within a short distance of the Rutgers campus.