Postdoctoral Research Fellow – Informatics/Data Science and/or Population-Level Lipidomics Studies
Employer:
Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University (HNRCA)
711 Washington Street, Boston, MA 02111

Position Overview:
The HNRCA invites applications for a postdoctoral research fellow position within the Precision Nutrition and Healthy Aging group, under the mentorship of Dr. Bruce Kristal. This role focuses on one of several interconnected projects that broadly address precision nutrition and health optimization in diverse, aging populations. Current projects include:
- **Informatics-Focused Project**: Developing, expanding, and implementing a novel informatics platform to support advanced data analysis.
- **Population-Science Focused Project**: Conducting analyses and drafting manuscripts linking plasma lipids with demographic, physiological, and disease-related characteristics in an ethnically diverse, older cohort.
- **Integrative Project**: Working at the interface of informatics and population science to advance both fields.

These projects pose complex and impactful challenges, and as they evolve, this position may offer diverse opportunities for growth and long-term career advancement.

The position is available immediately, though flexible start dates are possible. Applications will be accepted on a rolling basis until the position is filled. Salary is competitive and commensurate with experience.

Applicants should send a cover letter briefly describing their short- and long-term scientific/technical interests and their CV to bruce.kristal@tufts.edu.

Responsibilities:
- Analyze data and draft manuscripts related to lipidomics and/or the development and application of informatics methods and workflows.
- Lead projects that result in first-author publications; contribute to collaborative studies.
- Work closely with interdisciplinary collaborators from areas such as informatics, epidemiology, and nutrition.
- Participate actively in group meetings and collaborate on larger, multidisciplinary projects.
- Assist with grant writing and progress reporting for research funding.

Qualifications and Required Skills:
- **Technical Proficiency**: A solid foundation in quantitative data analysis and proficiency in one or more relevant fields, such as informatics, data science, computer science, mathematics, metabolomics, lipidomics, epidemiology, or population studies. Experience in ethnically diverse population studies is particularly valued.
- **Problem-Solving Orientation**: Enthusiasm for tackling complex research questions and developing novel methods and workflows as needed.
- **Independent and Collaborative Research Skills**: Ability to conduct self-directed research as well as work collaboratively within interdisciplinary teams. Candidates should be able to identify when to seek expertise from other disciplines and collaborate effectively to resolve challenges.
- **Communication Skills**: Strong written and verbal communication abilities, with the capacity to produce multiple first-author papers per year. The successful candidate should be comfortable and adept at clear and efficient scientific writing.
- **Attention to Detail**: High standards of thoroughness in record-keeping and completing work tasks.

Formal Qualifications:

- A doctoral degree in a field relevant to the position, such as computer science, mathematics, bioinformatics, biochemistry, population biology/epidemiology, nutrition, lipid metabolism, or a related discipline.

About Tufts University:

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