The Department of Pediatrics at Northwestern University's Feinberg School of Medicine and the Ann and Robert H. Lurie Children’s Hospital of Chicago are seeking a postdoctoral researcher in the domain of systems biology, microbiomics, and metabolomics as related to the treatment response to pediatric obesity therapies.

**Duties and responsibilities**

The post-doctoral researcher will be a key person in the multi-institutional, NIH-funded Pediatric Obesity Microbiome & Metabolism Study (POMMS).

The research focus is on applications of multivariate and genome-scale microbiome and metabolic modelling approaches to identify the key pathways and markers associated with successful and failed medical and surgical therapies for childhood obesity. The research will employ multiomics data including metabolomics (plasma), RNAseq (gut microbiota and plasma mononuclear cells), and metagenomics (gut microbiota) obtained a prospective observational study of children undergoing weight-loss therapies and healthy controls.

**Eligibility**

Eligible for the appointment as postdoctoral researcher are applicants holding a doctoral degree in bioinformatics, systems biology, metabolomics, microbiomics, or in related subject areas. The doctoral degree should have been awarded no more than three years prior to the application deadline. Candidates who have obtained their doctoral degree prior to that may however also be considered if special grounds exist (leave of absence due to illness, parental leave, clinical duties, or other similar circumstances).

**Assessment criteria**

Documented knowledge and experience in biochemistry, biostatistics and statistical learning, involving analysis of biological high-throughput data is a requirement. Experience with medical applications of metabolomics, genome-scale metabolic modelling, microbiome, and metabolic research in general are merits. The applicant should be proficient in the R statistical language, metabolomic, and metagenomic applications. The successful candidate should be creative, have the ability to both co-operate and independently work with research questions. Proficiency in written and spoken English is a requirement. General assessment criteria include good interpersonal skills and an ability to cooperate as well as the ability and suitability otherwise required to perform the duties well.
Equality

Our ambition is to create a place of work that is characterised by gender equality and diversity.

Information

The position is a full-time position, starting as early as January 2018. The salary depends on the successful candidate's qualifications and experience.

For more information, please contact Patrick Seed (patrick.seed@northwestern.edu).

Application

Please send the following materials to Patrick Seed to complete your application:

1. Covering letter
2. CV
3. An account of [research/artistic] qualifications
4. Copies of relevant course/degree certificates and references
5. Scientific publications for consideration (maximum of 10)

Only documents written in English can be reviewed.

The application deadline is December 20, 2017. We look forward to receiving your application!

We decline any contact with advertisers or recruitment agencies in the recruitment process.

Northwestern University is an Equal Opportunity, Affirmative Action Employer of all protected classes, including veterans and individuals with disabilities. Women, underrepresented racial and ethnic minorities, individuals with disabilities, and veterans are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.