

Position Summary

The Arthur Riggs Diabetes & Metabolism Research Institute at City of Hope is looking for a talented postdoctoral fellow. The collaborative laboratories of Drs. John Kaddis and Bart Roep are jointly seeking innovative postdoctoral candidates to conduct in-silico translational research in the field of type 1 diabetes (T1D). This individual will participate in one or more projects that examine the role of molecular, cellular, genetic, and epidemiological variation in T1D. This candidate will have an opportunity to work with specialists in the fields of immunology, diabetes, and data/computer science. Expertize in statistical methods for disease risk prediction and modeling, as well as clinical data, genome sequence, SNP array, “-omics”, and large-scale genetic association analysis is helpful. Experience with public databases/repositories is highly desired. Necessary skills include those from bioinformatics, computer/data science, mathematics, software engineering, and computational biology. This individual will be housed in the Kaddis laboratory.

Education and Skills Required for Consideration

- A Ph.D., or equivalent, degree with research experience in a scientific field of study. Examples include biological sciences, bioinformatics, mathematics, computer science, information science, or related field of study
- Computational and/or statistical skills with a high degree of proficiency in one or more programming languages, such as R (preferred), SAS (preferred), SCALA, Perl, Python, SQL, Java, Javascript, C/C++, dot.net, or MATLAB.
- Ability to clearly document, organize, and track code, e.g. use of markdown, jupyter notebooks, github/gitlab.
- Understanding of data analysis pipelines, e.g. next generation sequencing experiments
- Domain knowledge in diabetes and/or immunology
- Experience in science and data quality assessment
- Knowledge of biological and public access data sources (e.g. dbGaP, SRA, NCBI, EMBL-EBI, etc.)
- Familiarity or experience in Unix/Linux, cluster, or cloud (Azure, AWS, Google) computing environments
- Experience with analyzing genetic, omics, and clinical datasets is beneficial
- Ability to work independently and as a part of research team
- High motivation and desire to be part of multidisciplinary group
- Excellent interpersonal and communication skills (written and verbal)
- Experience with modeling, statistical and exploratory data analysis techniques

Additional Information

Please submit your current CV/resume along with a cover letter highlighting your research accomplishments, a brief statement explaining how your past research ties in with the goals of our laboratories, and future career plans.

For more information on Dr. John Kaddis' research, please visit [here](#)

To apply to this position, please visit the COH website [here](#).