

Who we are

At Roche, 85,000 people across 150 countries are pushing back the frontiers of healthcare. Working together, we've become one of the world's leading research-focused healthcare groups. Our success is built on innovation, curiosity and diversity.

The Position

Roche is the world leader in *in vitro* diagnostics (IVD) and tissue-based cancer diagnostics and a front runner in diabetes management. Roche Sequencing is seeking a talented bioinformatics scientist with a computer science (CS) background to develop software pipelines to bridge data from next-generation sequencing (NGS) platforms to bioinformatics analysis tools that will be used in IVDs. This will enable the approval of NGS IVDs to impact patients through personalized medicine.

You should enjoy working on a team and have a strong desire to pursue creative solutions to challenging problems in an interdisciplinary and fast paced startup-like environment.

Responsibilities:

- Work proactively with external and internal software partners to understand hardware requirements for our diagnostic purposes and ensure that the software fulfills our requirements including UX design.
- Modify existing software from external partners to run in the Roche IVD workflow in an automated fashion.
- Work with other bioinformatics team members and external partners to benchmark algorithms and software and develop test cases for biological accuracy.

Who you are:

As a strong candidate, you will have many of the following qualities:

- Possess an advanced degree in computer science, bioinformatics, computational biology or related quantitative discipline (Ph.D. preferred).
- Enjoy working in a team environment and collaborating with other bioinformaticians.
- Comfortable understanding code in a variety of languages including C++, C#, and Java (experience with Python and R a plus).
- Proficient writing and testing code in C or C++.
- Experience building workflows based on RESTful systems.
- Desire to learn about types of data generated by various NGS platforms including innovative, cutting edge platforms. Experience working with at least one existing NGS platform is required.
- Previous experience with designing and developing a software product a plus, but not required.
- Passionate about applying your skills in a diagnostic setting to advance personalized medicine and helping patients in the areas of human genetics and immunology.