Vilya is a computational biotechnology company creating a novel class of medicines to precisely target disease biology. We believe computational approaches are an integral, if not foundational, component of drug discovery and development. Our platform is built on ground-breaking research in advanced computational approaches and taps into uncharted chemical space to design new molecular structures not found in nature.

We are harnessing the power of our platform to go after previously impossible targets in an array of indications. Vilya's ultimate goal is to solve some of the most challenging unmet medical needs that exist today.

Our Vision: Harness a revolution in technology and biology to better human health

Our Mission: Build an independent, leading biotech company founded on intelligent drug design to cure the incurable

We are seeking a senior computational chemist to invent and apply state-of-the-art *in silico* methodologies to computationally discover, develop, and evaluate therapeutic molecules from Vilya's novel platform of structured macrocycles. Computation is an integral part of Vilya, and therefore, you will be an integral part of Vilya. This position collaborates closely with the rest of the computational, synthesis, assay, and business teams to lead decision making toward the identification of therapeutic molecules with the highest likelihood of success in the clinic.

RESPONSIBILITIES:

- **Collaborate** with multi-disciplinary teams in the discovery and development of macrocyclic molecules with potency, selectivity, and in vivo stability using structure-guided approaches.
- **Implement** individual methods and integrated pipelines that will process large libraries of virtual compounds for virtual screening and evaluate smaller sets of the most promising compounds to prioritize downstream efforts.
- **Analyze** data from experimental and computational assays to improve methodology throughout the Vilya therapeutic discovery platform.
- **Innovate** Vilya's computational design platform by building state-of-art computational chemistry metrics and protocols.

QUALIFICATIONS:

- Ph.D. in computational chemistry, computational biochemistry, chemoinformatics or other closely related fields at the intersection of computing and drug discovery.

- Extensive hands-on-experience applying any combinations of the following approaches to therapeutic discovery: virtual screening, binding free-energy methods, QSAR modeling, and ADME / Tox / DMPK prediction.

- Experience with and knowledge of open source and/or commercial computational chemistry software, such as: Schrodinger, OpenEye, OpenMM, TorchANI, RDKit, etc.

- Track record of directly impacting the discovery and development of high quality hits, leads, and/or clinical assets using structure-based computational methodologies.

- Extensive hands-on experience with parallel job execution and high performance computing systems.