R&D Project Intern:

Who we are:
Phosphorus is a computational genomics company with the vision to create a world where every healthcare decision is optimized with genomics. Founded in 2016 and based in New York City, Phosphorus develops powerful data-driven software that enables labs around the world to deliver the most advanced clinical genetic tests. Phosphorus is committed to an active research and development program with an initial focus on decoding the genetic causes of infertility. With a team of experts in computational biology and computer science, Phosphorus is building a data network that will help providers, researchers and patients around the world better understand and harness the power of the human genome.

Assignment:
There are multiple genetic variants that have been associated with infertility, but to our knowledge, there has not been any comprehensive approach to integrate genetic and phenotypical information with the aim to predict response to fertility treatments. Through literature searches, we have selected over thousand genes having a role in reproductive biology.

The goal of this challenge is to use a systems biology approach, using gene network tools, to model gene-gene interactions within our list of candidate genes, to predict infertility indications.

You need to:
- Propose an approach to model infertility gene-gene networks using appropriate tools.
- Send us a slide deck summarizing your findings