



Programmer

Investment Optimization Tool

Date: 27AUG'25

By: PBTech

About the job

PassionBio.tech FlexCo (PBTech) is a life sciences venture builder and M&A advisor. We combine clinical, medical, operational, and financial expertise to build and grow companies. We are developing a fintech tool to support investment decisions and are seeking a programmer to design and implement it.

→ **Animation Video:** See link [here](#).



About the Role

We are looking for an experienced C#/.NET Developer to adapt, re-develop and extend our recently in-licensed qOptInvest tool, a software that supports investment decisions by running portfolio simulations and applying the Kelly formula for risk-adjusted allocation of funds. The tool is currently written in C#, uses local JSON files for data storage, and contains data entry fields directly within the application interface.

We plan to migrate the qOptInvest tool from file-based storage and connect it to an in-house database, which is managed by our team through a PHPMaker 2025 web interface (a low-code platform for generating secure CRUD applications). The PHPMaker interface will handle all data management (such as notes and audit logs), while qOptInvest itself will focus on the main calculation engine, scenario simulations, and graphical output.



Key Responsibilities

- **Database Integration:** Modify the qOptInvest tool to use an external relational database in place of its current JSON-based storage.
- **Refactoring & Migration:** Simplify and improve the way results and graphical output are presented, eliminate in-application data entry fields, re-design the tool to connect with the existing in-house database, and update the user interface.
- **Data Consistency:** Ensure that the tool interacts reliably with the existing in-house database, handling transactions and potential conflicts when data is updated by different users.
- **Clean Code & Architecture:** Keep the system scalable, maintainable, and ready for future additions (such AI-based analysis). Use best practices in C#/.NET development.



Qualifications

- Strong proficiency in C# and .NET (Core or Framework).
- Proven experience with database integration in C#.
- Ability to refactor existing applications and adapt them for new architectures.
- Solid understanding of software design principles (Clean Code, layered architecture, MVC/MVVM).
- Experience working with shared databases and handling transaction safety.
- Familiarity with Git and collaborative development workflows.
- Strong communication skills to collaborate with the internal team providing the database and PHPMaker implementation.

Nice to Have

- Experience with financial or investment applications.
- Knowledge of AI/ML integration for future system enhancements.

How to Apply

- Apply through [LinkedIn](#) with your CV and a brief statement outlining relevant experience and motivation for working in life sciences. See our website for the animation video and the application process.