



Job: Senior Research Engineer / Lead

About PetaGene

Genomic data is one of the fastest-growing data types in the world. The insights it makes possible are transforming medical treatment for millions. However, critical challenges facing the life science Industry are the storage costs and transfer times that these large data require. At PetaGene we are addressing these challenges with award-winning software for the lossless compression of genomic data. Our software has been commercially deployed in HPC environments and across cloud platforms for the pharmaceutical industry, leading hospitals and other research institutions around the world.

Innovation is central to our ethos. We have invented techniques which surpass the compression ratios achieved by other well-known technologies by more than an order of magnitude. The kinds of data we compress constantly evolves and completely new data formats arise as sequencing and other technologies advance. If you are keen to join a innovative, vibrant company, which is solving critical real-world problems in the life sciences industry, please do apply.

Person specification

We prefer candidates with a strong technical degree in a relevant area or with relevant work experience. We value candidates with graduate degrees in related areas.

The successful candidate will have experience and skills in the following areas:

- Proficient in C++
- Capable of researching a challenging problem and coming up with new approaches
- Understands algorithmic complexity and can optimise accordingly
- Software build, deployment and test

The following skills are also valued, but not required for the role:

- Experience in either Bioinformatics or Information Theory preferable
- Commercial software development and code base maintenance
- Knowledge of Linux library system and some OS internals
- Experience coordinating other developers (acting as a project or team lead)
- Designing for high performance computing
- Has worked with Bioinformatics tools or pipelines
- Experience with GPGPU acceleration
- Experience with Virtual File-systems

Pay is competitive and will be based on the candidate's skills, experience and talent. An annual bonus is anticipated in addition to your base salary. You will also receive a health benefits package.

PetaGene is an equal opportunities employer. We do not discriminate against employees or job applicants and select the best person for each job based on relevant skills and experience. Please contact jobs@petagene.com for informal enquiries about the position.

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Job: C++ Software Engineer

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Person specification

We prefer candidates with a strong technical degree in a relevant area or with relevant work experience. We value candidates with graduate degrees in related areas.

The successful candidate will have experience and skills in the following areas:

- C/C++ development experience
- Linux scripting and build systems: GNU Make, Shell (Bash/Csh)
- Commercial software development and code base maintenance
- Software build, deployment and test

The following skills are also valued, but not required for the role:

- Skilled at designing new algorithms
- Knowledge of Linux library system and some OS internals
- Designing for high performance computing
- Has worked with Bioinformatics tools or pipelines
- Experience with GPGPU acceleration
- Experience with Virtual File-systems

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