Tensor Network Developer

Jun 2022

Please apply to: hiring@multiversecomputing.com

Multiverse Computing

Multiverse is a well-funded deep-tech European company. We are one of the few world companies working with Quantum Computing.

We provide hyper-efficient software for companies from several industry verticals wanting to gain an edge with quantum computing and artificial intelligence. We work on finance, energy, manufacturing, logistics, and more.

Our team of experts is world-renowned for innovative approaches to intractable industry problems. We work with quantum hardware and quantum inspired methods to build machine learning solutions which exceed the predictive power of the current best solutions.

The position is available in Paris, France.

As Tensor Network Developer, you will

- Join a world-class team of Quantum experts with an extensive track record in both academia and industry.
- Work with real world-wide customers across several industries.
- Collaborate closely with the founding team in a fast-paced startup environment.
- **Contribute to designing and improving Multiverse's codebase.**
- **Implement and integrate new quantum-inspired algorithms based on tensor networks.**

Required Qualifications

- Masters degree in Quantum Physics, Mathematics or related field
- Demonstrated knowledge and experience with Tensor Network numerical simulation methods, with a focus on machine learning and optimization
- Advanced knowledge of Python and related scientific computing tools, or similar language and demonstrated capacity to quickly learn Python
- Strong basis in linear algebra and expertise in math for quantum computing and tensor algebraic methods.
- Familiarity with Tensor Network libraries and/or relevant functions (ncon, cuTensorNet, TeNPy, Uni10, iTensor, TNT, or others).
- Ability to work with a diverse team of people, both in-person and through online resources
Perfect command of English language

Preferred Qualifications

- PhD in Quantum Physics, Mathematics or related field
- Experience with C, C++, CUDA, and Python.
- Ability to produce product-quality code
- Familiarity with quantum computing SDKs (QISkit, PyQuil, or others) or demonstrated capacity to quickly learn
- Familiarity with Machine Learning libraries (TensorFlow, or others) or demonstrated capacity to quickly learn
- Understanding of complex tensor network algorithms (higher-dimensional systems, symmetries, tangent-space methods, etc).

Exceptional Qualifications

- Experience in writing technical documents such as scientific papers, grant proposals, and/or patent applications

Perks & Benefits

1. Working in a high-paced environment, for a well funded startup technology company.
2. Potential to grow into long-term opportunities.
3. Attractive salary and benefits, with growth opportunities.
4. Private health insurance.