

bytefuse



About the Company

Bytefuse is an Artificial Intelligence (AI) Research and Development company that forms part of the Alphawave Group. We operate as a rapid prototyping unit that **collaborates with partners** to understand the complexities within each **unique context** to develop solutions that solve immediate, real-world challenges.

We are on a mission to improve lives through contextual AI, and have a great deal of work ahead of us. If you want to make a tangible impact, keep pushing your understanding of the world of AI and work with a team of leading experts then Bytefuse might be the right place for you.

Our Team and Environment

We're a team of innovators, problem-solvers, and creators, who are **curious and optimistic** about new opportunities and challenges. We encourage **unconventional thinking**, and exploring different approaches to solving problems. Our startup culture creates a **safe-to-fail** and familiar environment where our team can collaborate, learn, experiment, hone their skills, and contribute to **solving real-world problems**.

We are committed to the **personal growth and development** of our team and support the participation in **international conferences**.

Our Offices

We have offices, situated within **Techno Park**, in the beautiful surroundings of Stellenbosch, and **Montague Gardens**, close to the centre of Cape Town. We offer flexible working hours, allowing for a healthy work-life **balance**. The team can work remotely on Wednesdays. We have unlimited barista style **coffee**, and the option to order daily meals for lunch.

Job Description: Applied Research Scientist

As an Applied Research Scientist at Bytefuse, you will play a crucial role in leading fundamental and applied pioneering research initiatives that contribute to how we think about and design our products to address the unique challenges our users face. There will be opportunities to publish papers and attend (as well as speak) at local and international conferences.

You'll be joining our Foundation team that is going to push the boundaries of LLMs in Africa. We've got access to unique multilingual datasets, and an A/B testing platform for personalised LLM alignment.

We are a small (but growing) team which allows you to influence how we think about and solve problems. We are working with extremely challenging problems and you'll have the opportunity to shape our products.

Key Responsibilities

- Collaborate on research agendas that push Bytefuse products forward.
- Work towards long-term research goals, while identifying intermediate milestones.
- Review relevant AI/ML literature to identify emerging methods, technologies, and best practices.
- Work with other teams in the company to prioritise work that will maximally benefit the company.
- Contribute to experiments by helping with design, contributing code, running evaluations, and reporting on the results.
- Uphold the scientific integrity of the company.
- Publish papers as well as attend and speak at conferences.

Qualifications

- Master's, or Ph.D. degree in a field related to AI/ ML such as Computer Science, Engineering, Mathematics, Statistics, or Physics.

- Publication track record in presenting at machine learning conferences and/ or journals
- 5-8 years of experience in research engineering, applied research, or a related field, with demonstrated expertise in experimental design, data analysis, and interpretation.
- Proficiency in Python, deep learning frameworks such as PyTorch, and experience with distributed training methodologies.
- Strong analytical and problem-solving skills, with the ability to formulate research hypotheses, design experiments, and draw meaningful conclusions from data.
- Strong understanding of machine learning techniques and methodologies.
- Strong communication and collaboration skills, with the ability to work effectively in a team environment.

What can you expect from Bytefuse?

- Competitive salary
- Generous leave policy
- Flexible working hours with WFH Wednesdays
- Opportunities to grow and develop a career in the world of AI and ML.
- Offices with lunch and barista-style coffee

How to Apply?

Email your CV to careers@bytefuse.ai with the Job Title of the role you are applying for in the Subject Line. Please reach out if you have any questions.