

## Applied Scientist (all levels)

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Company: Oracle

Location: Perth

Category: computer-and-mathematical

At Oracle Cloud Infrastructure (OCI), we are shaping the future of the cloud for healthcare and enterprises with a diverse team of creators and innovators. Our focus is on pioneering AI technologies, specifically Generative AI. We are an established team with a proven track record of productizing industry-leading AI solutions for Oracle Digital Assistant and Oracle Cloud AI services. As a trusted team, we are rapidly expanding and developing Generative AI solutions for the healthcare and enterprise domains. We operate in an agile environment with a substantial charter, high visibility, and support from senior leadership. Additionally, we closely work with Oracle Cerner to make an impact to millions of patients and revolutionize the healthcare domain. As our Applied Scientist, you will play a key role in shaping the future of AI at Oracle, with an emphasis on Large Language Models (LLMs) and Generative AI. Your contributions will be pivotal in delivering our new Generative AI-powered solutions for healthcare and enterprise customers.

**We are hiring for Applied Scientist positions across all levels, including entry-level, Senior, Principal, and Senior Principal**

The exact responsibilities will depend on the level.

### **Responsibilities :**

Collaborate with product managers to translate business and product requirements into AI projects.

Collaborate with fellow technical leaders to ensure the successful and timely delivery of models and integration of services.

Coordinate with multinational teams to drive projects from research POC to production.

Develop new healthcare and enterprise services and features leveraging recent advances in generative AI, machine learning and deep learning.

Design and review the architecture of AI solutions, including data, model, training, and evaluation, employing best practices.

Lead and mentor both junior and senior applied scientists.

Develop production code and advocate for the best coding and engineering practices.

Participate in project planning, review, and retrospective sessions.

Identify and mitigate risks in our plans and executions, especially at the intersection of business and engineering.

### **Qualifications and Experience :**

Demonstrated experience in designing and implementing scalable AI models for production.

Deep technical understanding of Machine Learning, Deep Learning architectures like Transformers, training methods, and optimizers.

Practical experience with the latest technologies in LLM and generative AI, such as parameter-efficient fine-tuning, instruction fine-tuning, and advanced prompt engineering techniques like Tree-of-Thoughts.

Hands-on experience with emerging LLM frameworks and plugins, such as LangChain, LlamaIndex, VectorStores and Retrievers, LLM Cache, LLMOps (MLFlow), LMQL, Guidance, etc.

Proven experience in designing data collection/annotation solutions and systematic evaluation necessary for developing and maintaining production systems.

Commitment to staying up-to-date with the field and applying academic advances to solve complex business problems, and bringing them into production.

Strong publication record, including as a lead author or reviewer, in top-tier journals or conferences.

Experienced leading senior scientists and early-career scientists.

**Bonus Qualifications:**

Knowledge of healthcare and experience delivering healthcare AI models are a significant plus.

Familiarity and experience with the latest advancements in computer vision and multimodal modeling is a plus.

**Education :**

PhD Computer Science, Mathematics, Statistics, Physics, Linguistics or a related field with a dissertation, thesis or final project centered in Machine Learning and Deep Learning) with 3+ years relevant experience is preferred but not a must; OR

Masters or Bachelor's in related field with 5+ years relevant experience

**Locations:**

Melbourne

Sydney

Brisbane

Canberra

Perth

Adelaide

Oracle is committed to incorporating generative AI into our applications and workflows for business users. This role presents a unique opportunity to work on pioneering AI technologies and contribute to Oracle's Generative AI strategy. At Oracle, we value diversity and encourage continuous learning for career growth. Come join our team to make a significant difference!

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