

# Intern with the GraalVM team at the Database AI research group!

Are you looking for an exciting internship opportunity? If so, this might be the perfect fit for you. The GraalVM team at Oracle Database has an opening for an internship to work on cutting-edge compiler technologies, runtime performance optimizations, and language interoperability features within **GraalVM**.

## Oracle Database AI Research

The group explores a wide range of advanced technologies that shape the future of Oracle Database and its surrounding developer ecosystem. While AI and machine learning are key areas, the group also investigates cutting-edge topics in database systems, programming languages, developer tooling, cloud-native application frameworks, and performance engineering. Researchers pursue high-impact ideas, often high-risk or experimental, that may not fit within traditional product development but have the potential to influence Oracle's platforms and services at scale.



The GraalVM team has created an advanced runtime and set of development tools built on top of a JDK, with the goal of making software engineers more productive worldwide. After years of research, GraalVM is now a production-ready technology that delivers performance improvements and additional capabilities across a wide range of languages and platforms.

## Internship Details

We offer various topics based on the skills and interests of the candidate:

- **Develop new profile-guided optimization (PGO) features for GraalVM Native Image**
- **Improve interpreter and just-in-time (JIT) compilation for ahead-of-time-compiled code in GraalVM**
- **Develop new monitoring features, interactive tools, and visualizations for Native Image to improve developer productivity**
- **Implement outlining support in Substrate VM (SVM)**
- **Research efficient interpreter implementations for **Graal languages****
- **Work on next-generation runtime environments that support durable execution**
- **Enable native image generation from WebAssembly modules**
- **Improve G1 garbage collector support in Native Image**
- **Explore new security features and assurance methods for GraalVM and **GraalOS****
- **Research efficient interpreter implementations for **Graal languages****
- **Extend **Graal languages** with new capabilities**

## Required Skills

The person stepping into this role is expected to complete the internship using a wide and diverse set of skills.

- Strong Java programming knowledge (required)
- Fluent English communication (required)
- Experience with compiler technology
- Programming experience in JavaScript, or Python, or a native language (C/C++)

## Internship Facts

The duration of the internship can vary based on your constraints. The usual duration is 6 months. We pay a competitive salary. The research topics listed are informative, we are open to suggestions depending on your skills and qualifications. By sending in your application, you opt-in for processing your personal information.

If this sounds like you, we hope to meet you!

## How to Apply

Please provide us with the following information to apply:

- Your CV or link to your home page containing your curriculum
- Description of your motivation and area(s) of interest
- Availability and preferred internship duration
- Preferred location

If available, please apply to this topic via the internship portal of your university. Alternatively, send an email with the aforementioned information to [graalvm-internships\\_ww\\_grp@oracle.com](mailto:graalvm-internships_ww_grp@oracle.com)

## About Us

As a world leader in cloud solutions, Oracle uses tomorrow's technology to tackle today's challenges. We've partnered with industry-leaders in almost every sector—and continue to thrive after 40+ years of change by operating with integrity. We know that true innovation starts when everyone is empowered to contribute. That's why we're committed to growing an inclusive workforce that promotes opportunities for all.

Oracle careers open the door to global opportunities where work-life balance flourishes. We offer competitive benefits based on parity and consistency and support our people with flexible medical, life insurance, and retirement options. We also encourage employees to give back to their communities through our volunteer programs.

We're committed to including people with disabilities at all stages of the employment process. If you require accessibility assistance or accommodation for a disability at any point, let us know by emailing [accommodation-request\\_mb@oracle.com](mailto:accommodation-request_mb@oracle.com) or by calling +1 888 404 2494 in the United States.

Oracle is an Equal Employment Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, sexual orientation, gender identity, disability and protected veterans' status, or any other characteristic protected by law. Oracle will consider for employment qualified applicants with arrest and conviction records pursuant to applicable law.



Image Caption 1. Our beautiful offices at Prime Tower in Zurich.