

- CAREERS

Compiler Engineer

TOKYO / PRODUCT & TECHNOLOGY - ARENE ENGINEERING & SOLUTIONS / EMPLOYEE / HYBRID



APPLY FOR THIS JOB

[Woven by Toyota](#) is the mobility technology subsidiary of Toyota Motor Corporation. Our mission is to deliver safe, intelligent, human-centered mobility for all. Through our Arene mobility software platform, safety-first automated driving technology and Toyota Woven City — our test course for advanced mobility — we're bringing greater freedom, safety and happiness to people and society.

Our unique global culture weaves modern Silicon Valley innovation and time-tested Japanese quality craftsmanship. We leverage these complementary strengths to amplify the capabilities of drivers, foster happiness, and elevate well-being.

ABOUT THE TEAM

Arene's goal is to open vehicle programming to everyone by simplifying vehicle software development and increasing deployment frequency without compromising safety and security. This will create a whole new market of vehicle application developers who, through software, integrate a vehicle into our daily lives in novel ways. Arene aims to significantly improve how vehicles are designed and developed, and we're working closely with Toyota to realize this goal in its next-generation vehicles.

The organization is rapidly growing and is setting up a center of excellence for compiler and toolchain development in Tokyo, JP, to join forces with the global team.

For more information about Woven by Toyota, please visit: <https://woven.toyota>

WHO ARE WE LOOKING FOR?

Our goal is to design and build the next generation in-vehicle platform that can host applications ranging from automated driving to in-cabin experiences. We are looking for engineers who are passionate about architecting well designed tools which delight developers and enable the next generation of automotive software development. The right candidate will have solid coding skills, broad knowledge of software development, and excellent communication skills.



Positions are available at various levels, depending on your skills and experience.

WHAT DO WE OFFER?

We offer a stimulating and cooperative team environment, where writing quality software that doesn't compromise safety is our main priority. We use modern development processes and tools, use and improve existing standards, in an industry that's keen to change. Along with Tokyo and Palo Alto, London is one of our globally distributed centers of excellence collaborating towards a common goal: harmonizing the best of "Silicon Valley Innovation" and Toyota Craftsmanship.

We learn from each other, as well as support and encourage ongoing training such as:

1. Automotive Development
2. Software Safety and Security
3. Modern Software Quality Management Practices

We put a strong emphasis on ethics and team values, which include:

1. Be Reasonable
2. Work with Integrity
3. Be Empathic and Open to others

We believe in:

1. Creative Ownership
2. Growing together through teamwork
3. Courage to make history

Ask us what these values mean to us.

RESPONSIBILITIES

- Define development of the functional safe certified compilers to build, update, check, and safety-certify our vehicle software
- Improve these compilers in the open, to put an emphasis on compiler correctness while also improving their usability for developers (diagnostics, sanitizers, fuzzers, etc.)
- Advance these compilers support for various standards such as C, and C++, and provide feedbacks to those standards
- Optimize the Compilers for relevant hardware platforms
- Use modern syntax tree-based tooling (not just grep!) to find and fix logic errors, security issues, inefficient code, and code that can be modernized, through millions of lines of code

MINIMUM QUALIFICATIONS

- Familiarity with language or parser internals (ex. LLVM, GCC internals, language intermediate representations)
- Familiarity with C/C++ and a higher level scripting language (ex. Python)
- Experience debugging compiler related issues across large code bases
- Excellent coding, problem solving and analysis skills
- Excellent technical communication and people engagement skills
- Mindset for ownership, growth, and a bias for progress
- Deep commitment to quality

- Familiarity with working in a security and safety focused environment

PREFERRED QUALIFICATIONS

- Comfortable with troubleshooting the root cause of compiler, static and dynamic analyzer errors in large codebases
- Knowledge or hands-on experience with code analysis tools (ex. sanitizers)
- Hands on experience writing parsers, analyzers, formatters and related tools manipulating or running on the underlying language syntax representations
- Knowledge of quality management systems

If you are currently located outside of Japan we will set an interview over Google Hangout Meet or Skype.

WHAT WE OFFER

- Competitive Salary - Based on experience
- Work Hours - Flexible working time with NO core-hours
- Paid Holiday - 20 days per year (prorated)
- Sick Leave - 6 days per year (prorated)
- Holiday - Sat & Sun, Japanese National Holidays, and other days defined by our company
- Japanese Social Security - all applicable (Health Insurance, Pension, Workers' Comp, and Unemployment Insurance, Long-term care insurance)
- In-house Training Program (software study/language study)

By submitting your application you agree to the following terms:

<https://woven.toyota/en/applicant-privacy-notice>

Our Commitment

- We are an equal opportunity employer and value diversity.
- We pledge that any information we receive from you will be used ONLY for the purpose of hiring assessment.



What We Build

Who We Are

Our Latest

Careers

Contact

contact@woven.toyota

TOKYO

SAN FRANCISCO BAY AREA, CA
SEATTLE, WA
ANN ARBOR, MI
BROOKLYN, NY
LONDON



[Privacy Notice](#) [Terms Of Use](#) [Cookie Policy](#) [Do Not Sell Or Share My Personal Information](#)
Woven by Toyota, Inc.©2023

