Job Posting:170666 - Position: F25 CAD/Software Intern 170666B

Co-op Work Term Posted: 2025 - Fall
App Deadline   06/19/2025 09:00 AM
Application Method: Through Employer Website
Posting Goes Live: 06/12/2025 11:37 AM
Job Posting Status: Approved

ORGANIZATION INFORMATION

Organization   TSMC
City   Ottawa
Province / State   ON
Country   Canada

JOB POSTING INFORMATION

Placement Term   2025 - Fall
<b> Job Title <b>   F25 CAD/Software Intern 170666B
Position Type   Co-op Position
Job Location   Ottawa, ON
Country   Canada
Duration   8 months
Salary Currency   CAD
Salary   Salary Not Available, 0 Major List
Job Description

Overview of Role

TSMC Canada has an opening for a CAD/Software Intern for our regional office in Ottawa, Ontario. As an 6-8-month Intern within TSMC Design Technology Canada Inc., you will work within one of the Memory Design Teams, to focus on CAD, S/W projects, as well as work within the Verification space for VLSI circuits. Working and learning under the direction of the Manager/ senior member of the team, you will work on defined segments of projects. As your skills progress, progressively increasing challenges may be assigned. As an Intern, you will be *assigned a defined project,* bound by the company's Proprietary Information Protection policies and practices. You will have the enviable opportunity to learn and work alongside a diversified team who do research and design on the world's most advanced CMOS/FinFET processes.

Responsibilities

• Enhance internally generated software utilities for efficiency, control, and documentation
• Create software/scripts to check generated data to categorize them for sorting, finding outliers
• Create software/scripts to compare data generated from different flows for correspondence and match
• Perform functional verification preparing Manufacturing/tester patterns and debug of failing tests
• Contribute to the customization of standard digital verification methodologies and help improve the electronic design automation (EDA) capabilities of the group.

Company Description

As a trusted technology and capacity provider, TSMC is driven by the desire to be:
• The world's leading dedicated semiconductor foundry
• The technology leader with a strong reputation for manufacturing excellence
• Advancing semiconductor manufacturing innovations to enable the future of technology.

TSMC Design Technology Canada Inc, is a wholly owned subsidiary of TSMC in Taiwan.

TSMC pioneered the pure-play foundry business model when it was founded in 1987 and has been the world's leading dedicated semiconductor foundry ever since. The Company supports a thriving ecosystem of global customers and partners with the industry's leading process technologies and a portfolio of design enablement solutions to unleash innovation for the global semiconductor industry. With global operations spanning Asia, Europe, and North America, TSMC serves as a committed corporate citizen around the world.

In North America, TSMC has a strong sales and service organization that works with customers by helping them achieve silicon success with cutting-edge technologies and manufacturing excellence. The Company has continued to accelerate its R&D investment and staffing in recent years and is expanding its manufacturing footprint to support customer innovation with 3D IC technologies and optimal manufacturing capacity.

For positions requiring access to technical data subject to export control regulations, including Export Administration Regulations, TSMC North America may have to obtain export licensing approval from the U.S. Government for certain individuals. All employment is contingent upon TSMC North America obtaining any export license or other approval that may be required by the U.S. Government.

Diversity statement

TSMC Design Technology Canada Inc. is committed to employing a diverse workforce and provides Equal Employment Opportunity for all individuals regardless of race, color, religion, gender, age, national origin, marital status, sexual orientation, gender identity, status as a protected veteran, genetic information, or any other characteristic protected by applicable law.

TSMC is an equal opportunity employer prizing diversity and inclusion. We are committed to treating all employees and applicants for employment with respect and dignity. If you require reasonable accommodation due to a disability during the application or the recruiting process, please feel free to notify us at G_ACCOMMODATIONS@TSMC.COM. TSMC confirms to all applicants its commitment to meet TSMC's obligations under applicable employment law. Reasonable accommodations will be determined on a case-by-case basis

Date: Jun 3, 2025

Country/Region: CA

City: Ottawa

Company: TSMC Technology, Inc.

Job Requirements

Qualifications

• Final year of Master's program in Electrical Engineering and Computer Science *or equivalent program*

• Scripting and programming skills to help automate complex design tasks and flows (e.g., skill/experience in automation of tasks in a production or semi-production setting, skill in using Linux scripting tool, and ability in various of S/W languages (i.e. Perl, Python, C, C++))

• Aptitude for Semiconductor related Engineering and Problem solving, and strong ability to learn.

• Knowledge and experience in design of digital and/or mixed signal circuit as additional qualification

• Solid integrity, goal orientated; attention to excellent quality; ability to commit and deliver on schedule; enthusiastic.

Citizenship Requirement   N/A

APPLICATION INFORMATION

Application Procedure   Through Employer Website

Cover Letter Required?   Yes

Special Application Instructions

Application Link: https://ro.careers.tsmc.com/job/Ottawa-FallWinter-2025-CADSoftware-Intern-%286591%29-ON/1061927366/

Please click the "I intend to apply to this position" button on SCOPE and also submit your application via the employer's website.

Applications are accepted on a rolling basis and the posting may be expired at any time by the employer as submissions

are received.

Students should submit their applications as soon as they are ready.