Job Posting:171892 - Position: F25 Application Engineer Co-op 171892

Co-op Work Term Posted:	2025 - Fall
App Deadline	08/20/2025 09:00 AM
Application Method:	Through UBC Science Co-op
Posting Goes Live:	08/13/2025 12:03 PM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	GaNPower International
Address Line 1	230-3410 Lougheed Hwy,
City	Vancouver
Postal Code / Zip Code	V5M 2A4
Province / State	British Columbia
Country	Canada

JOB POSTING INFORMATION

Placement Term	2025 - Fall
<b> Job Title <b>	F25 Application Engineer Co-op 171892
Position Type	Co-op Position
Job Location	Vancouver, BC
Country	Canada
Duration	4 or 8 months
Work Mode	In-Person
Salary Currency	CAD
Salary	3300.0 per month for 38 Major List

Job Description

Company Introduction

GaNPower is dedicated to developing power electronic technology based on Gallium Nitride (GaN). We believe that GaN power semiconductors have the potential to revolutionize the efficient use of electrical energy. If you are eager to contribute to a sustainable future by generating leading edge innovation, then this is your chance!

Job description

In this role, you will decisively contribute to the development of our next-generation all-GaN intelligent power module (IPM) technology, ranging from device concept engineering and board-level reliability assessment to production ramp-up.

- Hardware Integration Support: Support the integration of a co-packaged Analog-to-Digital Converter (ADC) module by helping to design and validate the system under high-speed switching conditions.
- Firmware and Algorithm Development: Develop and test firmware calibration algorithms for the IPM's temperature compensation strategy.
- IC Validation and Testing: Execute high-current double pulse tests (DPTs), 500/1,000-hour power cycling reliability runs, and perform electromagnetic compatibility pre-scans.
- Printed Circuit Board (PCB) Assembly: Assemble and solder PCBs, assisted by understanding and following electrical schematics and bills of materials (BOM).
- Additional Responsibilities: May include device testing, circuit simulation on LTspice, as well as PCB testing and debugging.

Number of working hours per week: 38-40 hours

Job Requirements

Requirements:

- Currently enrolled in a 3rd/4th year program in electrical engineering, computer engineering, engineering physics, or other relevant fields.
- Proficiency in programming, preferably in C / C++, for embedded systems.
- Prior experience with ADCs and microcontrollers such as the Microchip PIC32 series or TI C2000 series.
- Hands-on experience with engineering lab equipment such as oscilloscopes, multimeters, and power supplies.
- Behavioral skills such as ability to work well independently, as well as in a team, multitasking, good organizational and documentation skills.

Assets:

- Experience in semiconductor testing, especially power device characterization, is a strong asset.
- Familiarity with circuit simulation tools like LTspice.
- Experience with thermal testing or the use of a climatic chamber.
- Understanding of power electronics topologies and high-voltage Si, SiC, or GaN devices.

Citizenship Requirement N/A

APPLICATION INFORMATION

Application Procedure Through UBC Science Co-op

Cover Letter Required? Optional

Address Cover Letter to Heemal Parimoo

Special Application Instructions

Please include a portfolio if you have one showcasing relevant projects, professional work, or university coursework.