CMC Microsystems works with academic and industrial researchers across Canada's National Design Network® providing access to world-class design tools, fabrication technologies, and expertise for designing, prototyping and manufacturing innovative hardware. CMC reduces the barriers to technology adoption by creating and sharing platform technologies. www.cmc.ca

CMC Microsystems is seeking a *Microelectronics Fabrication Engineer*

Client focused, we provide access and engineering support to the world's best manufacturing technologies for advanced microelectronic technologies. Reporting to the Manager, FAB Services, this position analyzes and identifies customer fabrication needs in analog, RF and mixed-signal design, proactively manages and improves the fabrication service system, qualifies and prepares client designs for fabrication, provides manufacturability and process-technology advice to researchers, and interfaces with the integrated circuit fabrication facilities and packaging houses. CMC Microsystems is looking for a Microelectronics Fabrication Engineer with experience in integrated circuit design flows to be part of our innovative and dedicated team working out of our Ottawa or Montreal offices. If you have excellent interpersonal skills, passion, and an enthusiasm to work directly with clients, submit your cover letter and résumé via email by May 17, 2019 to: Sue Publicover, HR Coordinator **publicover@cmc.ca**

General Requirements
- Communicate with clients on fabrication and technology-related matters, paying particular attention to client problems and opportunities (in areas of design and verification tool requirements, and fabrication technology needs)
- Support the implementation and operation of fabrication service infrastructure and the related design submission environment
- Proactively assess effectiveness of design information handling systems, and modify or recommend improvements as necessary
- Write scripts for the Linux environment (knowledge of other languages considered an asset) and other tool-specific scripts to improve operational and user productivity
- Use state of the art design tools and back-end verification software to perform manufacturability assessment of integrated circuit designs
- Liaise directly with researchers and students on design rule check results with advice on fixes. Assess and process designer special requests.
- Continuously align design signoff processes with foundry requirements and communicate these requirements to researchers
- Prepare designs and associated documentation for manufacturing. Interface with integrated circuit fabs for multi-project wafer data submission, special request handling and problem resolution
- Prepare dicing and packaging specifications and create and maintain infrastructure for efficient transmission of these requirements between clients, CMC and packaging houses. Interface with integrated circuit packagers, to discuss general package support options, special requests, and responses to design-specific problems
- Contribute in general to CMC's programs, and provide design quality feedback that will assist other CMC design kit creators
- Contribute material to CMC-supplied design kits

Additional Skill Requirements
- Proven skills or the ability to quickly learn the use of sophisticated CAD tools, most specifically Cadence, Mentor and Synopsys, and Linux workstations
- Excellent communication and presentation skills (both verbal and written in English), proficiency in French an asset
- Ability to work with minimal supervision and manage multiple priorities.

Educational Requirements
- An MSc. in Electrical or Computer Engineering or equivalent with knowledge of electronics and experience in ASIC design flows.