

**Biography:**

Abderraouf Boucherif is an Associate Professor of mechanical engineering at Université de Sherbrooke since 2018. Currently, he is the co-holder of the Umicore research chair in semiconductor nanomembranes for flexible optoelectronics. With a remarkable track record, Pr. Boucherif has steered interdisciplinary teams to tackle fundamental and applied materials and process challenges, forging valuable collaborations with key industry stakeholders. As the principal investigator for a multi-million project with industry, his team achieved significant breakthroughs, including the groundbreaking demonstration of wafer-scale layer transfer and substrate reuse for up to three cycles with the PEELER approach. This accomplishment resulted in creating a record-breaking III-V solar cell device on a 4-inch re-usable wafer. Pr. Boucherif team has also proposed and demonstrated new compliant substrate approaches, including mesoporous pillars compliant substrate and the Anchor Point Epitaxy (APN) technique for the growth of group IV materials on engineered graphene substrates.

His pioneering research findings have been published in top scientific journals like Nature Communications, Small, and Advanced Materials Interfaces. Additionally, his commitment to mentoring emerging talent is evident, with many of his students receiving awards at renowned conferences such as PVSC and EMRS.

Beyond academia, Professor Boucherif's contributions extend to patent filings and technology transfer to industry partners, including the licensing of the PEELER technology. He has also received awards such as: 2020 winner of the Tremplin Prize in Natural science and Engineering. Also, the PEELER project, under his leadership, received the esteemed 2023 Innovation Award from the Association pour le développement de la recherche et de l'innovation du Québec (ADRIQ).