

Job Description

Molecular Quantum Chemistry Postgraduates and Interns

Awn Nanotech Inc.

The UN evaluates that 2 billion people on earth will be without access to potable water. Climate Change will place even more water in the atmosphere. Awn Nanotech is an SME, located in Montreal, involved in atmospheric water extraction from the atmosphere at low energy costs. The technology has been developed and is undergoing scale-up. The project is taking place with the partnership of scientists at École Polytechnique and McGill University. The material used is a pyrolyzed organic, leaving behind a carbon nanonetwork functionalised. It absorbs humid air through nanometric pores and condenses it. Quantum mechanics becomes a key factor at those sizes and needs modeling. Awn is teamed with 1Qbit in developing a Quantum Chemistry capability using their Quemist software package, furthering the testing of the package. The amount of water molecules attached to Atomic Carbon is meant to be maximised using quantum modeling thus improving the material's performance.

Awn is presently recruiting for graduate and postgraduate quantum physics or chemistry trained individuals to join the team and work on modeling. Master and doctorate students can perform an internship with the corporation. And Postdoc, that can be Mitacs fellows are also welcomed. The workplace locations can be either U. of Sherbrooke or École Polytechnique Montreal or even at a distance.

The candidates will have a theoretical chemistry and quantum physics competences and skills. Advanced Masters and Doctoral students can apply for internships. Internships of 4-8 months are available. These internships and post-doctoral can eventually lead to permanent positions at Awn.

Please apply to richard.boudreault@icloud.com