

SBQuantum are using cutting edge science to enhance the way we use magnetic fields in order to 'Reveal the Invisible' for our clients. We are reinventing the way companies sense the world by innovating magnetics to provide solutions for problems to which this sensing modality was previously redundant. As a forerunner of Sherbrooke's nascent quantum hub, SBQ are prototyping a 'Magnetic Intelligence' platform, built around a novel diamond-based magnetometer. This platform will reveal hidden objects and enable improved navigations even in difficult environmental conditions. Magnetic fields are everywhere around us, let's make them central to how we sense the world.

Your responsibilities to advance our mission

You will interact directly with the algorithm and quantum sensor development teams. As the sensor's first user, we will be relying on you to generate a wealth of relevant data from tests so that SBQ can better understand how to evolve the product. You will be responsible for characterizing its performance as well as the magnetic signatures of structures SBQ are examining with 'Magnetic Intelligence'. Specifically, you will:

- Plan and carry out magnetic surveys in the lab/field, including with autonomous platforms
- Integrate and characterize various sensors with various platforms
- Compare SBQ's quantum sensor performance with commercial alternatives to guide prototyping
- Document measurements in various scenarios to improve the accuracy of SBQ's algorithms
- Contribute to the Python code architecture to control instrumentation and analyze data

What you need to join our team!

We are looking for candidates who have a bias for action and will thrive in an environment with a high degree of autonomy and responsibility so we can ensure data acquired in the field is maximized. We're not afraid to fail so long as we learn from our mistakes - it's part of the adventure. We are looking for:

- A strong ability to work in a cross-functional team. You will work in a multidisciplinary team of eight passionate people in Sherbrooke, QC so we are looking for examples of times you have excelled in a team environment be that at school or in an extra-curricular activity
- Certification in bachelor's degree in engineering physics, physics, geophysics or technical engineering physics training to accelerate and improve the quality of results for our clients. Ideally candidates will have Cegep DEC or above;
- An agile mindset to navigate ambiguity and adjust priorities on the go;
- Someone who's not afraid of criticism, sets clear, measurable objectives and a good methodology for tracking tasks;
- A user-centred approach. You will be the champion of the user so we expect you to do some reading on design thinking and to be able to translate technical details into user features
- Adaptability towards a flexible work environment and comfort mixing in-person and remote working
- Bilingual French/English an asset.

Do you want to seize the opportunity to contribute to and influence the development of a disruptive technology with multiple benefits to society? Contact us, our team wants to meet you!

Send your CV and cover letter to: David, CEO and co-founder david@sbquantum.com

As featured in: • Wired • The Economist • A case study • Graduation from the Creative Destruction Lab
• Institut quantique annual reports • The Quantum Daily • MagQuest Challenge

