

Motivation Letter

My name is Josep Bosch and I am a final year student of the Physics degree in University of Barcelona. I am very interested in the Quantum Science and Technology Master in Barcelona, the fact that different universities and institutions are participating in this master makes it a very valuable program for me from where to build a career in Quantum Physics.

The subjects I enjoy the most in my Physics Degree are the ones related with quantum mechanics because I find very interesting how quantum systems behave in various situations. In my free time I like reading news related to the development of quantum technologies, I think they are an important pillar of the technological sector and in the near future they will obtain even more presence so that the field will keep growing.

In the "Business Practice" subject I am coding an interactive application that has the goal to popularize quantum computing and quantum algorithms in teenagers and people who are not very familiarized with quantum mechanics. This project is supervised by three of my university professors.

In my Final Degree Thesis I am studying the entanglement in quasicrystalline systems of fermions where I am learning a lot about new concepts.

I also think that is very important to keep developing quantum technologies because they will allow us to make big advances in many fields like medical research or communications. Because of that, I think there is going to be some kind of quantum revolution and will appear new technologies we can't even think of now.

Research in quantum science and technology will not only make big breakthroughs in the tech side but will also help us understanding better the universe and some of the elements that currently are still a bit tricky to fit into our theories.

Trying to take advantage of the quantum phenomena to develop new technologies that will later do some useful tasks is a concept that inspires me a lot, for that reason I would love to learn more about everything related with quantum science and technology and become part of it.

Thank you for your time and consideration.

Sincerely,

Josep