

# Motivation Letter

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Dear sir/madam,

I am submitting my application for the Master in Quantum Science and Technology at Universitat de Barcelona. My name is Jofre Vallès Muns and this year I am finishing the degree in Physics in this same University.

During this degree I have studied many sides from all the Physics spectrum. I undertook the speciality of Fundamental Physics and since I began studying (nearly four years ago), I have been enjoying Physics more and more. Out of all of them, the different areas of Quantum Physics has been the ones that attracted me the most, making me want to continue to develop my studies in this field.

For this reason in the past two years I have been taking all the optional subjects related to this topic, I did an internship with the Department of Quantum Physics and Astrophysics in our University and I am currently working on my Final Year Research Project, which I chose to be about many-body Quantum Physics. I do believe that the opportunity to join this Master would provide all the insights I have been looking for and would allow me to explore the different areas in Quantum Physics that I'm still not fully familiar with.

Moreover, I feel that the top of the line participating institutions, as well as the companies that are associated with this Master, would allow me to get in touch with academic and professional work that would clearly define which particular areas are the ones I would like to base my professional future on. For instance, the possibility of working with the Barcelona Supercomputing Center or many of the different Quantum Computing research groups on the Master Thesis would be really stimulating to me, since I have always been passionate about the computational part of Physics.

Over the past years I have been studying and half-time working. For my future studies I want to fully commit to the University so I can achieve my best results, which I am sure I can obtain along with making remarkable work that would surely define my future.

Thank you for your time and consideration.

Yours faithfully,  
Jofre Vallès Muns