Dear Sir or Madam,

As a French citizen, currently on a Marie Sklodowska Curie Actions fellowship for research on quantum computing at Harvard University, I feel particularly concerned by the very limited job market prospects in the European private sector in this field.

Research in AI and quantum computing requires very large investments and only major companies such as the GAFAM and IBM, as well as their Chinese counterparts have the financial and technological capabilities to lead such a research, which is now becoming too expensive to scale up for academia.

The European Union has been remarkably fast at identifying and supporting research in these fields, especially within Horizon 2020. Furthermore, a lot of the leading academic research groups in these fields are located in the EU, in particular in Delft, Munich, Copenhagen, Vienna and Barcelona.

However, the lack of European technological giants in the field implies that a lot of the innovation is monetized by American and Chinese companies and specialists like myself have more perspectives of employment in the private sector in the US and in China than in the EU.

So, it seems crucial that, beside the development of regulations and research centres, the **EU has to create European counterparts to American and Chinese technological companies by an approach similar to the creation of Airbus**. The development of these fields is fast, and in the absence of large capital investment in the EU, only a direct intervention of the member states can guarantee that such companies would be established and able to compete in a relatively short timescale.

Furthermore, the EU should considerably improve its communication and visibility to retain and attract talents. Indeed, Google or Facebook advertise their projects and achievements worldwide and, in this way, attract people, while EU initiatives remain quite inaudible in comparison.

I trust that the EU has the capacity to catch up and establish itself as a key player on par with the US and China, and I hope this initiative is only the beginning.

With best regards,

Benjamin Pingault, PhD

Laboratory for Nanoscale Optics

Harvard University School of Engineering and Applied Sciences

9 Oxford street

Cambridge MA 02138

USA