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Dear Madam, Dear Sir,

I am sending you my application in response to the job offer for Developer AI, reference 19640BR.

Currently as an associate professor at the University of Pau and Pays de l'Adour, I have ten years' experience in numerical simulations and scientific programming in the field of computational chemical-physics as well as high-performance computing. Inquisitive, through my research activities, I contribute to projects linked to miscellaneous scientific domains, such as biological systems and the study of photophysical properties in fluorescent proteins; electrode materials for Li-ion batteries and the chemical reactivity at interfaces; crude oil and the chemical characterization of aggregation processes.

Through the implementation of these projects, I acquired the specificities of the fields to set up and to conduct fruitful exchanges within multidisciplinary teams and supervise the Phd students or post-doctoral researchers of the project. Adapting my skills to each encountered problematic, I designed relevant models, implemented the associated numerical simulations and in particular developed the scientific programs necessary for the production including the analyses and the interpretation of the results obtained from these simulations.

Today, I would like to use my experience and skills for the benefit of new projects within the Total Group. This choice is obvious for two reasons. Firstly, Total is a world leader in the energy sector. Energy production and distribution is a major challenge of the 21st century in both societal and environmental terms. Secondly, Total has for many years been a major international actor in high-performance scientific computing both in terms of hardware, with the Pangea machine ranked among the most powerful supercomputers in the world, and in terms of the development. These two aspects constitute a particularly stimulating context in which I wish to take up new challenges and bring an original perspective from my background.

Yours faithfully.

Germain Salvato Vallverdu

A handwritten signature in black ink, consisting of a stylized, cursive script that is difficult to decipher but appears to be the name Germain Salvato Vallverdu.