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### The higher education system in Chile

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In a number of research studies, we have dealt with a number of attributes which are of paramount importance to improve the quality of life for any well-organized society. The main target in this set of studies is to both focus and underline the importance of the knowledge in the state of the art. It is crucial to realize that nowadays broad topics such as Robotic, Artificial Intelligence, Data Mining, Nano science, Nanotechnology and Biotechnology are the basis for any development to be achieved in the short, medium and long term. We do recognize the importance of these broad and essential areas of knowledge and development, but it must be admitted that as a country, we have not done the work properly and in due time. The offset with reference to developed countries is most significant. It is rather straightforward to conclude that our efforts in these areas are not enough to overcome these difficulties. Chile is sad example of a country, where highly qualify professionals are, in number, either scarce or non-existing. We believe that we must develop and increase economical resources on a regular basis, so as attributes such proactivity, novel ideas, entrepreneurship and social business among others are indeed to be considered seriously. Chile has considerable resources, such as Copper, Lithium and Rare Earths and a dessert with clean skies and sun light (so this is without any doubt a rather unlimited supply of solar energy). Only scarce efforts have been dedicated to obtaining benefit of these free sources. There are also, a number of other traditional resources such as a significant and large forest, wine and other commodities. A better analysis of both our strength and weak points should be taken into account and people should be seduced to work for the country welfare. It is obvious the role to be played by a high-level training in subjects such as Chemistry and Biology in addition to Mathematics, Physics, Computing, will be essential to have available a reasonable number of competent professional working for the productive sector.

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### The challenges facing the teaching of chemistry in general education Algeria

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I think that it is necessary to link the theoretical side with the practical aspect of chemistry teaching in a way that allows the student to get closer to this understanding, since chemistry touches large areas in our daily life. We do not forget that for students of fine science and technology, their choice of chemistry, Or graduate studies in chemistry after the end of the common trunk, they must have a solid composition in the application of chemistry supports their theoretical balance and allows them to enter the world of chemical industry, pharmaceuticals and petrochemicals. The student's study of the chemistry experiments also gives rise to the enthusiasm for following up on the observations and conclusions of the experiments of chemistry One of the current priorities is to give importance to the practical aspect by providing specialized laboratories for this purpose for the first years of university so as to ensure an integrated composition, although this is not easy because of the large number of students in the common trunk, but follow-up and supervision can overcome the various difficulties by forming committees A follow-up aimed at coordinating and creating the appropriate framework to put this reform on the right track and from which to reap the desired results. The practical study aims to deepen the student's understanding of the results that he studied theoretically and entrenched in his mind, with the emphasis that each experience with a report provided by each student after the end of the practical experience.

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