

1-Military service?

After 2 months of compulsory training period of obligatory military service in ground forces, I was assigned to administration of justice as an office secretary doing some routine works such as answering telephones, writing letters, putting the archived letters into files, etc. From Aug 2011 to Jan 2013.

2-Why USA?

Accessing to good research infrastructures and equipment motivates me to pursue my educational progress in the United States. I found American education system for higher suitable to achieve my goals because the US is one of the world leaders in Chemical and Environmental Engineering research areas. Getting acquainted with the latest developments of my research field in a country which is known as the Global Leader of Engineering science, USA, can facilitate achieving to my future dreams.

3-Which University? Why?

I got a direct PhD admission from University of The strong involvement of this university in research and industry, comprehensive facilities, well-equipped labs and well-distinguished academic staff provide a high quality of education and research for each student. Its professors are among the best in the field of Chemical and Environmental Engineering and publish lots of related papers in famous journals of engineering each year. So being one of the students of this university can be a great honor for me.

4-Which Major?

I got a direct PhD admission from this university in the major of chemical and environmental engineering, but my own emphasis is more on the second part of my major, Environmental Engineering and the related issues such as waste water treatment, air pollution modeling, etc., which are my favorite fields of study.

5-Research Plan?

Since I have a direct PhD admission and its first year is a TA funding, I have a general Research Plan from the graduate coordinator of my department answering three major concerns about my future plans at this university. I myself have a plan to work on environmental issues which became one of the most important fields of research these days. As you can see in my CV, I have done two projects on waste water treatment and air pollution modeling. Since these fields are developing new areas in my home country and there are little professors working on these issues, I can take a good academic position after returning from the US.

6-After Graduation?

As a PhD degree from the US is a prestigious proof of eligibility in my home country, I want to come back to my country and apply for academic positions there, specially taking an academic position in my own bachelor university, IUT, which I owe to a lot. This is my dream that I hope to come true in the next five years.

7-Gap?

After getting my BS degree, I worked in a small private company as a consulting engineer for two years, then I attended Obligatory military service for approximately two years and at the same time I got accepted into an MBA course which I graduated a few days ago.

8-Why MBA?

My working experience with a group of people persuaded me that a successful engineer must know different ways of managing a group, secrets about having the ability to make a good relationship with his co-workers, and different managerial strategies. As you can find this abilities in MBA courses in my country, I attended a course-based distance

learning MBA in order to improve my managerial and leadership capabilities. And I must certify that it was a great experience which will be so helpful in my future carrier as a university professor.

9-Applied Other Universities?

Yes, I applied for four universities, University of.....

10-Your Job?

I worked in a small private company as a consulting engineer for two years after my BS graduation. My job was related to simulation projects of designing pipelines and production lines of small factories such as paint and plastic factories, food packaging factories, etc. with software such as ASPEN, HYSYS, etc.

11-Expenses?

As you can see in my I20, I got a TA full funding (including a tuition waver and a stipend) which will cover both my tuition fee and living expenses.

Moreover, if I need more money, my father can support me financially, which can be proved by this bank statement from my father's account.

12-Father and Mother's Job?

My father is a teacher and at the same time has an office-accessories wholesaling business. My mother don't have any job.

13-Waste Water Treatment?

Water which is used in different parts of an industrial plant may become contaminated with hazardous combinations such as ammonia, sulfur, etc. For being recycled to the nature, this water should be treated in different processes such as filtration, oxidation, sedimentation, adsorption, and absorption in order to remove its contamination. Finding new ways of these processes which would be more energy saving and less time consuming is the most important concern of the professionals in this field.

14-Air pollution modeling?

It is the mathematical simulation of how air pollutants disperse in the ambient atmosphere. It is performed with computer programs that solve the mathematical equations and algorithms which simulate the pollutant dispersion. The dispersion models are used to estimate or to predict the downwind concentration of air pollutants or toxins emitted from sources such as industrial plants, vehicular traffic or accidental chemical releases. Such models are important to agencies tasked with protecting and managing the ambient air quality. The models also serve to assist in the design of effective control strategies to reduce emissions of harmful air pollutants.