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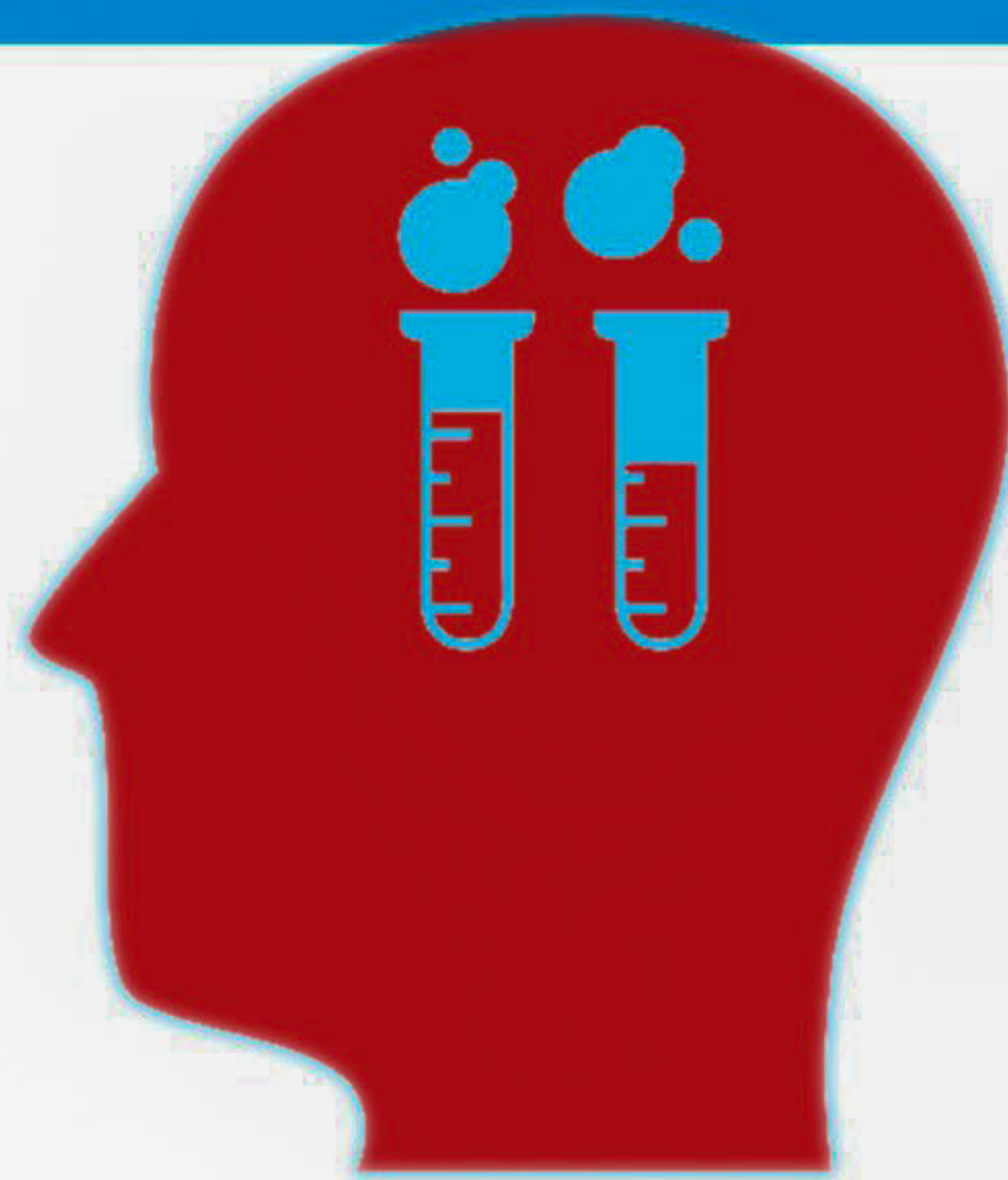
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# NEXT STEP

## Chemical dreams Careers in energy and petroleum

As technology becomes more and more rampant in our everyday lives, the search for competent experts who understand the flow of technology also continues to increase. One of the concurrent and fundamental sectors for young graduates in the field of technology is the energy and petroleum sector. Although there is a growing search for new forms of renewable energy and alternatives to petroleum, the time when these sectors will hinder opportunities for young individuals still seems far off.



Unlike jobs in many other fields, jobs in the petroleum and energy sector are quite technical and require a certain level of dexterity in order to excel. This is why chemical engineers, petroleum engineers and chemistry majors are more than suited for roles in these industries. The training these graduates go through during their undergraduate life is more than enough to equip them with the know-how to operate in these sectors.

### THE JOB HUNT

Graduate recruiters look for candidates who can demonstrate commitment, interest, relevant prior experience, interpersonal communication skills, flexibility and most importantly, technical and managerial skills that are currently scarce in the organization. Unlike other sectors, both small and large organizations could be utilized to provide work experience as this sector is quite booming and requires manpower. The sector has a long established tradition of sponsorship and sandwich placements in the university's degree program, especially for engineers, thereby facilitating one's career progression.

However, it is difficult to find experience when one is studying for a university degree due to time constraints and a requirement of total commitment on the part of the organization. And although employers do look for competence in this field, due to the



Globally, petroleum and chemical engineers are among the highest paid professionals. In the United States, the average salary for petroleum engineers would be around \$98,000 per year, rising up to \$140,000 annually for more senior posts. As if the evidently high pay-scale is not reason enough, one might be attracted to the diverse career paths offered. There are many job options in energy, ranging from petroleum engineers, derrick operators and oilrig workers in the oil and gas sector, to geoscientists at the major energy companies. But there are many more career paths which cover a wide spectrum of functional skills and abilities.

draconian competition one might have to rely upon networking to solidify an integral job. Vacancies are posted on organizations' websites, generic and industry-specific job websites and on trade websites.

Opportunities can also be found in trade publications, local and national press and through career fairs or networking events. SMEs are more likely to advertise their vacancies through the local press, university

career service bulletins, local graduate vacancy listings and job centers, rather than relying on their reputation and a presence at graduate recruitment fairs.

### GOOD NEWS FOR FRESH FACES

"In fact, job seekers with experience, education and competencies not typically associated with the energy industry can still find abundant opportunities in the sector,"

says Clara Lippert Glenn, President of the Oxford Princeton Programme. In addition to needing candidates with a wide variety of skills, energy companies often seek those who are interested in travelling the globe. The energy sector's global reach offers both its most attractive aspect and its greatest challenge, Lippert Glenn says. Industrialization in fledgling economies has increased demand for electricity, propane,

gasoline and other energy sources exponentially. China and India are the world's two most populous nations, and their energy demand is swelling. But according to Lippert Glenn, African nations will be important epicenters in the coming years of energy production and many new jobs will be created as a result.

Similarly for Bangladeshis interested in this mode of career, there is a huge gaping hole currently being filled in by bringing qualified individuals from neighboring countries like India and Sri Lanka. This gap can definitely be filled in by our local young graduates, especially those who go abroad for higher studies, and can definitely be a great opportunity to create an ambitious career. As gas, coal and oil exploration become an important agenda for all governments, the time is ripe for qualified Bangladeshis educated both abroad and at home to consider entering into the energy sector and to develop great careers with fantastic remuneration and compensation.

ISHAQR RAHMAN AND NAKIBUL HOQ

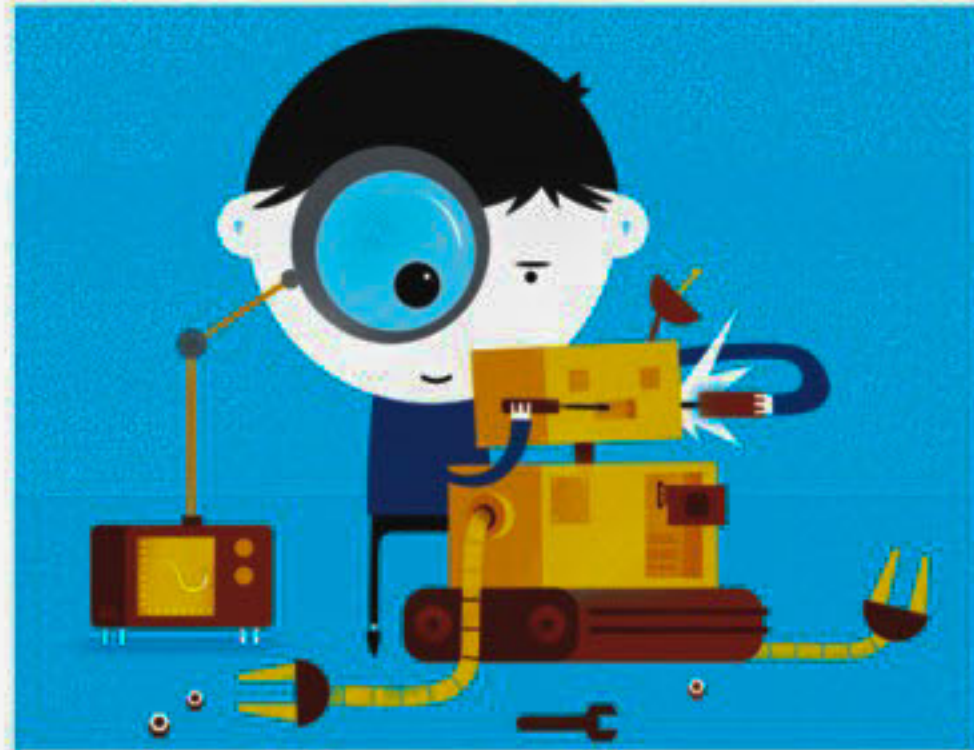
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## Top 5 careers in engineering

Starting an Engineering course may have definitely been the smartest decision in your life. We can list many reasons - from high salaries to respectable positions, but the truth is finding a job after graduating may be challenging. Therefore, we did some research about which engineering professions mark the highest demand nowadays.

### ELECTRICAL ENGINEERS

You would have to show exceptional skills within electrical systems and power system modeling, as well as strict time management, but, we doubt, this would scare you. With such a degree you would be able to find a job in the US, United Kingdom, as well as various Asian countries such as Taiwan, Japan and South Korea.



### INDUSTRIAL ENGINEERS

This is the profession with probably the highest demand at the moment due to industrial growth and technology development. If you define yourself as a problem solver, good with project managing and a strategist, you hold a great advantage. Of course, you would be able to find a lot of opportunities in the US, but also in India and Sweden.



### PETROLEUM ENGINEERS

You will be involved in all of the stages of oil and gas evaluation, while the profession divides into four categories: petroleum geologist, reservoir, production and drilling engineers. The United Arab Emirates are probably the main destination for such professionals, but if you are not a huge fan of the all year summer, you may want to check Argentina and the UK.

### ENVIRONMENTAL ENGINEERS

The industrial growth actually holds dangers for the environment, which is no surprise. Therefore, companies are looking for environmental engineers to improve their systems. You can choose to combine your knowledge of the environment, with civil engineering, when you would be managing water resources, dealing with water treatment and hydrology.



### AEROSPACE ENGINEERS

Flight engineers are said to be one of the most endangered professionals in the world. However, aerospace enables you to enter many industries, not just aircraft regarded ones. If you are looking for a job, you can check Germany, who boast with the investments they make in research and development, as one of the best European countries offering various programmes.

Even if you are not finishing a course in one of these subjects, do not worry. Engineering is the profession of the highest demand in the world. Showing willingness to learn, managing your skills and knowledge will always help you find the perfect position.

This week's free course is "Writing for Technical Professionals: Effective Writing Techniques"

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**Overview**  
Once you have planned the structure of a writing project, you need to plan your writing approach based on your target audience. You must take a different approach, for example, if instructing technical students how to implement a technology from the approach you would use to describe a technology's benefits to the general population. A different approach again will be appropriate if you want to explain the unique nuances of your invention to a group of peers. When you've clarified your audience, you begin writing in earnest, carefully avoiding common pitfalls such as using jargon

inappropriately. This course explores basic writing techniques, page layout and design, and common writing mistakes to avoid. It also teaches fundamental underlying concepts of instructional, persuasive, and reference writing.

**Target audience**  
Technical professionals wishing to improve their writing skills. This includes all IT personnel such as programmers and systems engineers as well as all sorts of technical engineering and scientific professionals.

Expected duration: 2.0 hours