



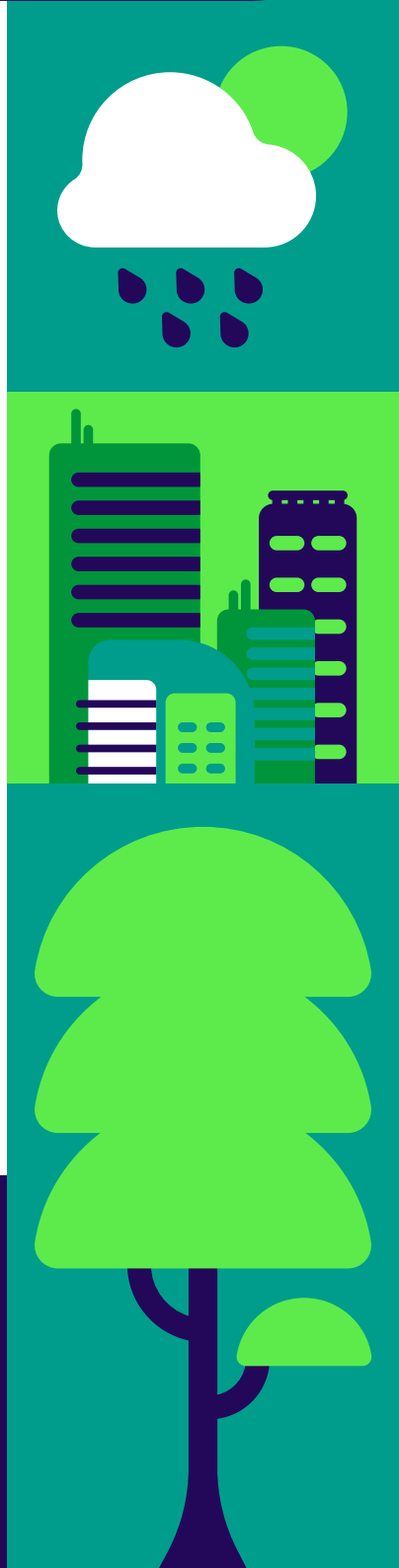
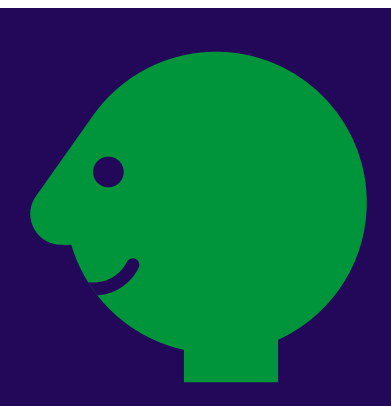
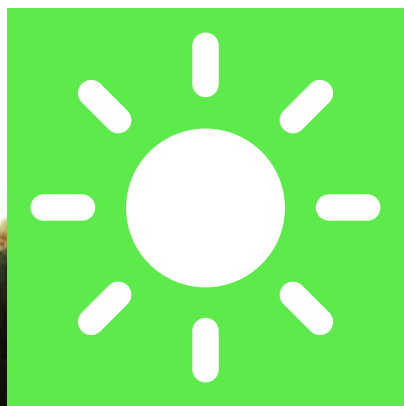
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Green careers guide

Shah Khan
Pakistan



Shah Khan Pakistan



What did you study?

BEng Electrical and Electronic Engineering
(University of Manchester)

Master in Advance Control and System
Engineering (University of Manchester)

What inspired you to study your subject at university and to work in the green industries?

I was inspired by the facilities of electrical and electronic engineering in Manchester University and the subjects taught there are second to none. It was a very sensible choice of mine to study in Manchester University because I liked the approach the university takes to my course.

University of Manchester has a very strong school of engineering, and I wanted to study under the guidance of best minds in the country. Also, the university has a vast alumni network which helped me maximize opportunities while still in school. I believe professional and personal values should align. This can be achieved when a person makes working a green job a part of his/her green lifestyle.

My first tryst with green industry was in my university years, where I was introduced to Solar energy techniques. Over the years, increased awareness about sustainability has led me to make environmentally conscious life choices. The concern about the environment has motivated me to focus my energy around green solutions, thus inspiring me to work in the green industry.



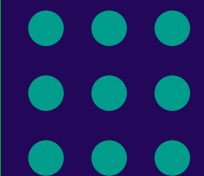
Why does climate change matter?

As our population has grown dramatically over the past hundred years, the planet's ability to handle all of our needs has come under stress.

I firmly believe that with ingenuity, technology, management and care, we can develop a renewable resource-based economy that can provide for all of us without destroying the planet. But a sustainable economy requires that we recognize our impact on the planet and learn to manage that impact. That requires science, engineering, management and a willingness to deal with reality.

How did your studies help you get into the career you're in today?

This reason may be a given. Undergraduate and post-graduate degrees helped me build upon my experience and broaden my skill set, I was equipped with practical skills and knowledge. The education provided me with a solid foundation in engineering field. Studying in UK did not just enhance my conceptual knowledge making me





industry ready, it also gave me an opportunity to experience different cultures thus helping me in developing range of interpersonal skills that are necessary for today's workforce

What other experiences and support have you had along the way?

It's fair to say that my student years in University of Manchester have greatly shaped my personality. The UK experience helped me in gaining valuable knowledge and essential life skills.

I came back to Pakistan to use skill & education for betterment of my country. I started out as a lecturer in University of Punjab, tutoring final year students in their final year projects. After this, I transitioned in to core engineering field. I worked as a Lead Engineer for Pakistani companies Like S.A.Hamid and Associated ,KKT and MNC Like ABB.

I went to perform multifaceted duties ranging from project management, research, consultancy services. I have worked in the urban environment of metro cities to the remote places like kohat, mardan, moro, kotsamaba. I have worn so many hats with a professional approach, great proficiency and ease which can be attributed to my UK education that prepared me to adapt in changing environments and cross cultural experience.

What do you do now – what does your role involve?

I am currently working as a Technical Advisor in GIZ (German Development Cooperation)

My main responsibilities in the role are as below:

I am responsible for ensuring effective coordination among the Ministry of Energy (MoE), Power Division, National Energy Efficiency and Conservation Authority (NEECA) and selected cities administration (e.g. metropolitan corporations, development authorities etc.)

I have developed operational plan which involves identification and implementation of low investment Energy Efficiency (EE) measures in selected cities (administration buildings, school, hospitals, streetlights, water supply and sanitation)

I am also responsible for organizing information exchange events in close coordination with cities administration and relevant association (e.g. association of local governments) and (e.g. roundtable meeting(s), workshops, seminars etc.); development of promotional and knowledge sharing material on EE best practices in partner cities with Pakistan German Renewable Energy Forum (PGREF)

What exciting projects have you been involved in?

As a lifelong learner, with a desire to experience new things, I have worked on diverse projects in my career so far to broaden my understanding of engineer field. Beginning the career with lecturing final year students of an Engineer College, I went on to work on 8MW steam turbines as an Assistant Manager in Chaudhary Sugar Mills.





My main responsibilities as an Asst. manager E&I were:

- Calibration of drives and commissioning of Schneider electric ALT invertors on site Correlation with Balancing, Modernization and Replacement (BMR) Planning.
- Decommissioning of HT, LT panels, transformers and high tension cables with contractors.

Afterwards, I went on to work for ABB (automation) and KKT. Following this, I worked on Industrial Automation in S.A. Hamid. I also started volunteering making BOQ's, project proposals and Sale orders for Clients and customers, negotiate with vendors and working closely with Procurement for prices of the products mentioned in the quotation.

Recently, I have embarked on a new path that will help me explore the means and ways to sustainable development. I have joined GIZ (German development cooperation) I am working as a technical advisor in their energy cluster. I am to advise Counselors and mayors of the cities in implementing energy management system in three cities for energy efficiency.

The projects that I am excited to be working on are as mentioned below:

Pilot cities selection for introduction of energy management system (EMS)

The project will work with selected cities/ metropolitan corporation/development authorities to enable them to implement energy management systems within the operational structures of the city, with the aim to reduce their own consumption of electricity.



Main Objective:

Participating cities will receive technical support in the establishment of an Energy Management System (EMS), development of an energy efficiency action plan, identification of Energy Efficiency opportunities & training of staff to implement and operate the EMS.

Do you have any tips for people looking to pursue a career in your sector?

There is a rapid growth energy efficiency sector and one must need to stay on top of all the latest developments. Academic journals and websites offer in-depth insights into what's happening in the sector from a technical perspective. Green energy conferences can help to stay on top of current news in field of interest. I will say that networking is important in this industry. In a fast-moving field like offshore energy efficiency, it's an opportunity to exchange news and views while getting up to speed on the latest opportunities and developments. Attending conferences and training events, streaming seminars and developing a strong LinkedIn presence can all help an enthusiast create and nurture a strong and useful network.

