



## Education

M.Sc., chemistry, Guru Nanak Dev University, Punjab, India

Ph.D. (expected 2017) Activated carbon materials from natural biomass, University of South Australia.

## Biography

Gurwinder, an experienced organic chemist, is currently in the process of completing his Ph.D. at the University of South Australia. He hails originally from Punjab in India where he completed all his qualifications up to Masters. After deciding to settle in Australia in 2008, he went for a career change from a chemist to a graphic designer. Eventually, He could not resist himself from pursuing his dream of completing a Ph.D. degree and joined the same at UniSA in 2014.

## Research Interests

Gurwinder's PhD involves research on producing biochar and activated porous carbon materials from natural biomass and use it for potential applications such as CO<sub>2</sub> capture, remediation and supercapacitors. Recently, he has been successful in preparing activated carbons from waste biomass with extremely high surface areas of up to 2700m<sup>2</sup>/g. Since the materials that he is developing are environmentally friendly and cost effective, these could prove very useful for many different applications. He is looking to further expand his research ideas into developing biosensors using biomass for pathogen detection. Gurwinder is making a useful contribution to the research community by turning waste into treasure.

## Hobbies

Gurwinder loves activities such as playing cricket, tennis, golf and soccer and along with mountain hiking and reading inspirational books are also his favourites.