Topics Related to Environment

- Examine the opportunities for sustainable soil management
- Develop biofilm systems that assist in removing pollutants from wastewater
- Examine the potential for new ways of managing chemical spillages
- Develop a data model for measuring air quality
- Investigate the phenomenon of degradation of herbicides by bacteria within soil-based ecosystems
- Look into reducing the methane production from cattle by changing feed
- Develop new ways of exposing and removing hydrophobic soil pollutants
- Investigate methods of binding and absorbing hydrophobic pollutants
- Analyze the difficulties associated with proper land usage in arid regions
- Develop a model to predict future climate change according to projected emissions data
- Discuss the effect of the presence of bacteria within clouds on atmospheric processes
- Develop models to measure gaseous mercury in the marine boundary layer
- Investigate the effect of exposure to teratogens on pregnant women and their children
- Develop a model to measure and offer ways of controlling urban air quality
- Examine the uptake of organic chemicals by crop species
- Discuss ways of encouraging business owners to include sustainability measures in their business models
- Develop a model to track the movement of organic pollutants in the Arctic
- Discuss the role of organic farming and its effect on the agricultural sector

- Develop an integrated means of measuring the management of water resources from fresh to waste
- Examine ways of investigating complex mixtures of organic chemicals and pollutants
- Develop a model to predict the dispersion of exhaust particles in city atmospheres
- Conduct a meta-analysis of the results of air pollution models
- Evaluate experimental models for the study of particulate matter and gaseous pollutants in urban environs
- Develop a model of atmospheric carbon dioxide content that involves surface fluxes and transport of this gas
- Discuss the practical applications of the transfer of mobile genetic elements between bacteria living in the rhizosphere
- Work on environmental policies for the control of chemical substances
- Discuss the potential uses of certain bacterial species living in the rhizosphere
- Evaluate the effects of fungicides on the diversity of soil bacteria around the roots of crop plants
- Develop means of risk assessment for chemical spillages in aquatic environments
- Analyze the long-term results of large-scale environmental disasters like oil spills