Agri Environmental Summer Internship

Understanding Plant Stress Responses

: Utilize proteomics and genomics techniques to analyze how plants respond to environmental stressors such as drought, salinity, and pathogens.

Techniques: Proteomics, Genomics, Molecular Biology, Bioinformatics

2.

Crop Breeding for Resilience

: Develop new crop varieties with enhanced stress tolerance by integrating genomics, molecular biology, and traditional breeding methods.

Techniques: Genomics, Molecular Biology, Breeding

Plant Metabolite Production

: Enhance the production of therapeutic compounds in plants through tissue culturing and metabolic engineering.

Techniques: Plant Tissue Culturing, Metabolic Engineering, Biochemistry

5.

Nutrient Biofortification

: Increase the nutritional content of crops by manipulating gene expression and nutrient uptake

pathways.

Techniques: Genomics, Molecular Biology, Biochemistry

Biofuel Production

: Optimize the production of biofuels from agricultural waste through enzymatic processes and genetic engineering.

Techniques: Biochemistry, Genetic Engineering, Bioinformatics

8.

Waste Valorization

: Convert agricultural waste into valuable products like bioplastics using biotechnology and tissue culturing.

Techniques: Biotechnology, Plant Tissue Culturing, Biochemistry

10.