

## Tree Planting Proposal Project

You have been given a grant that will fund the planting of trees on the property of Building 21. You will....

1. Develop a proposal to plant trees in **at least two different areas** on the property of Building 21. You must use **at least two different species**.
2. Identify the different species that should be planted.
3. Identify and explain the optimal (best) locations to plant the trees.
4. Create a map in Web GIS that shows where the trees will be planted.
5. Write a proposal that describes your plan.

As you work on your proposal, consider....

- Why you will select certain tree species. Consider the following:
  - Native and non-native trees
  - Fast growing trees / growth rate
  - Wind blockage
  - Shade benefits
  - Size of the tree
  - Promoting tree diversity in an area
  - (etc.)
- Why you will select certain locations. Again, consider
  - Wind blockage
  - Shade benefits
  - Water drainage
  - Size of the tree
  - Length of the root system
  - (etc.)

In your **written proposal**, be sure to include

- A screenshot of the entire Web GIS, showing the **whole of the Building 21 property** and the two or more proposed areas in which you will be planting trees.
- At least 2 screenshots, one for **each different area** from your Web GIS map. For each area,
  - Discuss your proposed tree planting locations in this area.
  - Describe how your proposed tree planting locations takes into account existing trees and other features around Building 21 in this area.
  - Justify why trees should be planted in your proposed locations in this area. Support your justification using data from the Web GIS.
  - Identify the tree species in this area.
  - Discuss the major benefits (**such as shade, wind blockage, carbon sequestration**) that your tree species provide for this area.
  - Discuss how your recommended tree planting areas will impact or change the existing environment.