

# Data Annotator Challenge

## Image Annotation Challenge:

The purpose of this exercise is to provide insight into the skills and characteristics necessary to succeed in this role. For this exercise we will provide an aerial image taken from one of our data collection flights. Your goal is to find and annotate objects of interest in the image.

## Instructions

1. Download this image: [http://www.enview.com/careers/Enview\\_Data\\_Annotator\\_Challenge.jpg](http://www.enview.com/careers/Enview_Data_Annotator_Challenge.jpg)
2. Navigate to the [VGG Image Annotator](#) website
3. Go to the Image menu, and select “Load or Add Images” to upload the image from the first step
4. Trace the outline of objects of interest in the image (see below for list of objects of interest)
5. First, select a Region Shape drawing tool in the left navigation panel
6. Second, trace the outline of the object by clicking on the aerial image. You can close the polygon by clicking on the first point you placed
7. Third, click on Region Attributes in the left navigation panel. In the panel that pops up on the bottom of your screen you will see a table with headers “name” and “color.” Write the category of the object in the “name” field. Leave the “color” field empty.
8. Repeat this for each Object of Interest that you can find in the provided image
9. Once you are done labeling do the following:
  - (a) Take a screen shot of the completed aerial image (please zoom so the image and labels are clearly visible. You can do this using the +/- buttons in the top navigation panel)
  - (b) Go to the Annotation menu in the top nav, and select ”Save as CSV”. The file name should be in the format of “YOURLASTNAME\_YOURFIRSTNAME\_Annotation\_Challenge.csv”
  - (c) Send an email to [careers@enview.com](mailto:careers@enview.com) and attach your resume, the screenshot, and the csv

## Objects of Interest

- Buildings. Attribute label “bldg”. Please do not group nearby buildings into one polygon.
- Vehicles. Attribute label “car”. Please do not group multiple vehicles into one polygon.
- Trees. Attribute label “tree”. You can group multiple trees into one polygon if they’re close together.
- Power Lines. Attribute label “pwr”. Multiple parallel lines can be grouped into the same outline.
- Bad Data. Attribute label “err”. If you see any artifacts, or problems, with the image please note those.

## Hints and Tips

- Try to ensure that your outline is as close to the object as possible, with as few background pixels included.
- A complex outline shape is highly preferable to a simple rectangle
- It’s ok to have multiple outlines that overlap each other (the objects of interest can overlap)
- There is no min or max time limit, but it is our expectation that this should take less than one hour