

# REMOTE ACCESS TO BIOQUANT

## Background

BIOQUANT software can be accessed and used remotely via the university VPN and Windows Remote Desktop Connection. This document explains the specific procedures involved.

## Technical Requirements

### Technical Requirements for the Remote PC

- BIOQUANT does not have any technical requirements for the remote PC.
- It's easier to make a remote connection if your home monitor supports the 1920x1200 desktop size, but there is a configuration procedure below if this is not available.

### Technical Requirements for the BIOQUANT PC

- BIOQUANT does not have any additional technical requirements for remote desktop access. If you BIOQUANT system is working in the lab, it should work remotely from home.

## Our Advice for VPN Connections

A “virtual private network” allows computers that are not located on campus to join the on-campus network. A VPN connection is required for Windows Remote Desktop. The university VPN is managed by the university IT staff. They can provide instructions for using it. **Be patient.** Lots of people are using the VPN right now. If it's really busy, **try working at “off peak” times** when the VPN will be less busy.

## Our Advice for Windows Remote Desktop Connections

**BIOQUANT has tested Windows Remote Desktop Connection in Windows 10.** There is Windows Remote Desktop software for Windows 7 and for MacOS, but BIOQUANT can't test those and we can't support them.

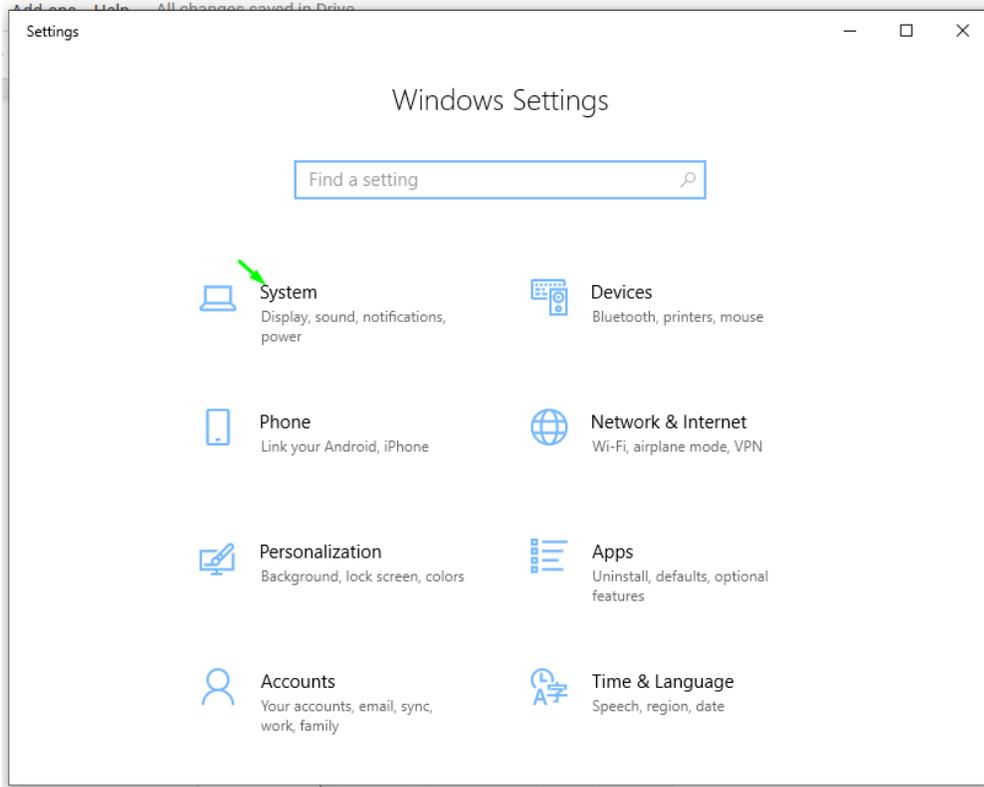
The image quality in Windows Remote Desktop is better in Window 10 than it has ever been. That said, the software will compress the picture of your BIOQUANT desktop to match the available internet speed at your house. This means **the image may get blocky or fuzzy** from time to time. **Don't worry.** The actual BIOQUANT desktop doesn't look this way and it won't affect your data. It's like looking at a monitor through a dirty window. It's the window not the monitor.

**Be patient.** Using imaging software remotely can be tricky. **Be kind to yourself.**

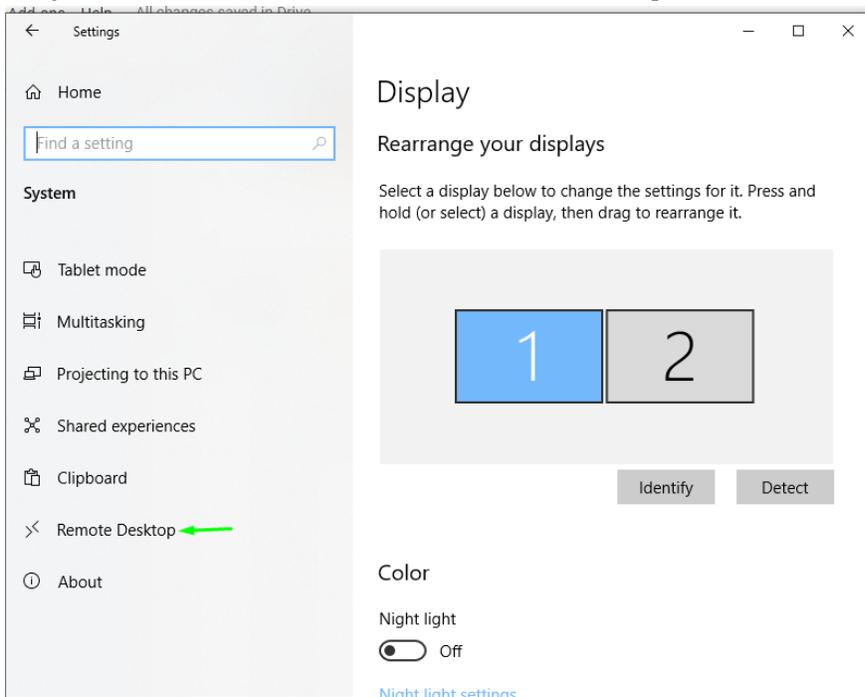
## Enabling Windows Remote Desktop Connection to the BIOQUANT Computer.

This is the standard remote access solution for Windows 10 computers. This will need to be enabled at the BIOQUANT pc before you can connect remotely.

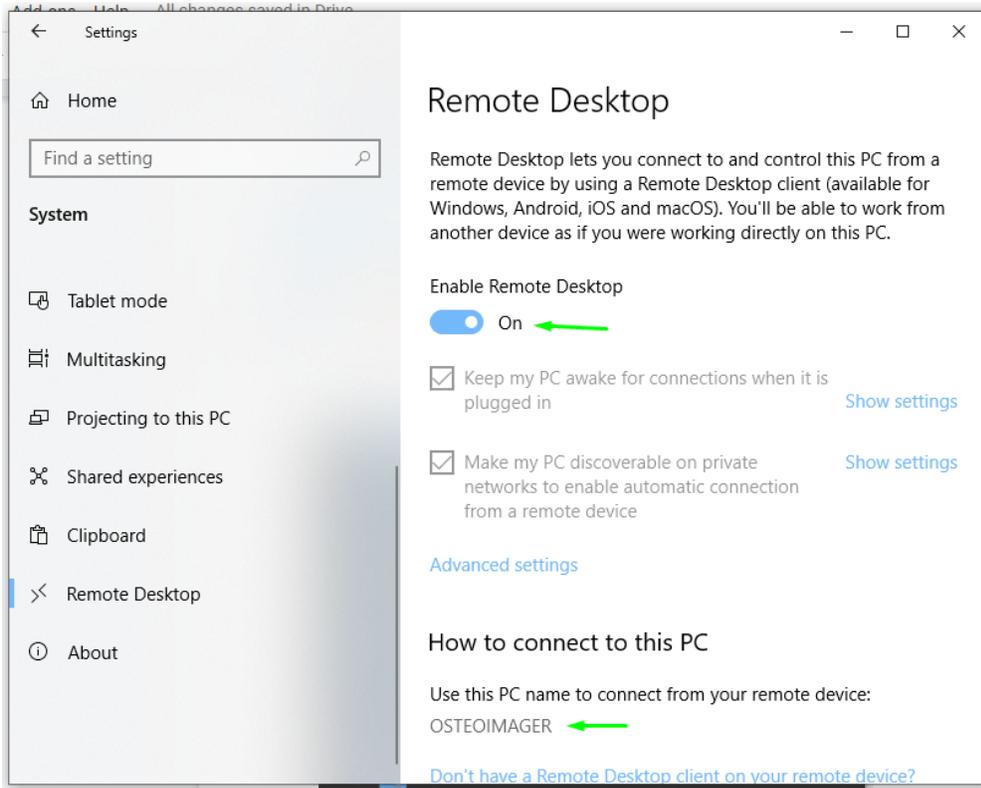
1. From the Start menu, choose Settings.
2. In Settings, click System.



3. In System, scroll down and click Remote Desktop.



4. On Remote Desktop, turn Enable Remote Desktop on.



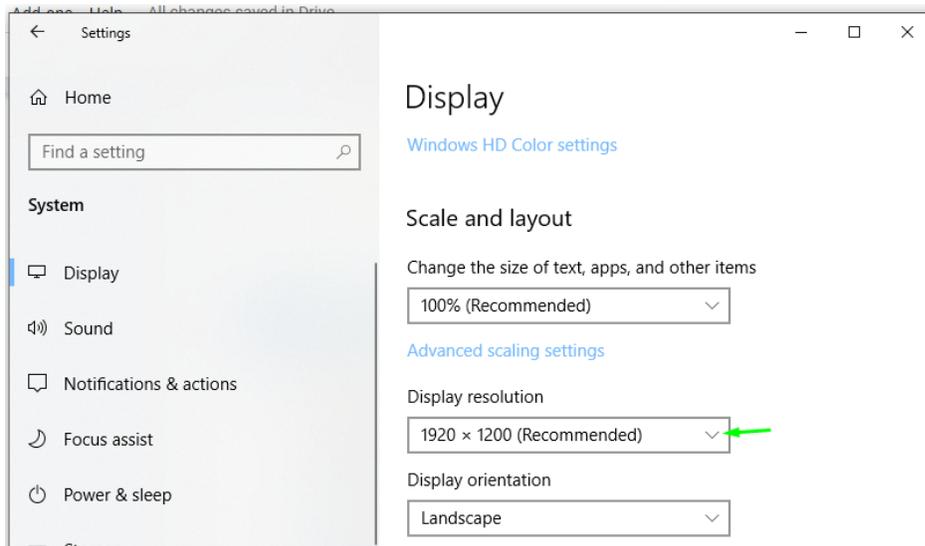
5. Write down the PC name. You'll need this to connect from home.

6. Close the settings box and leave the BIOQUANT computer running.

## Windows Remote Desktop with Home Desktop Sizes 1920x1200 or Higher

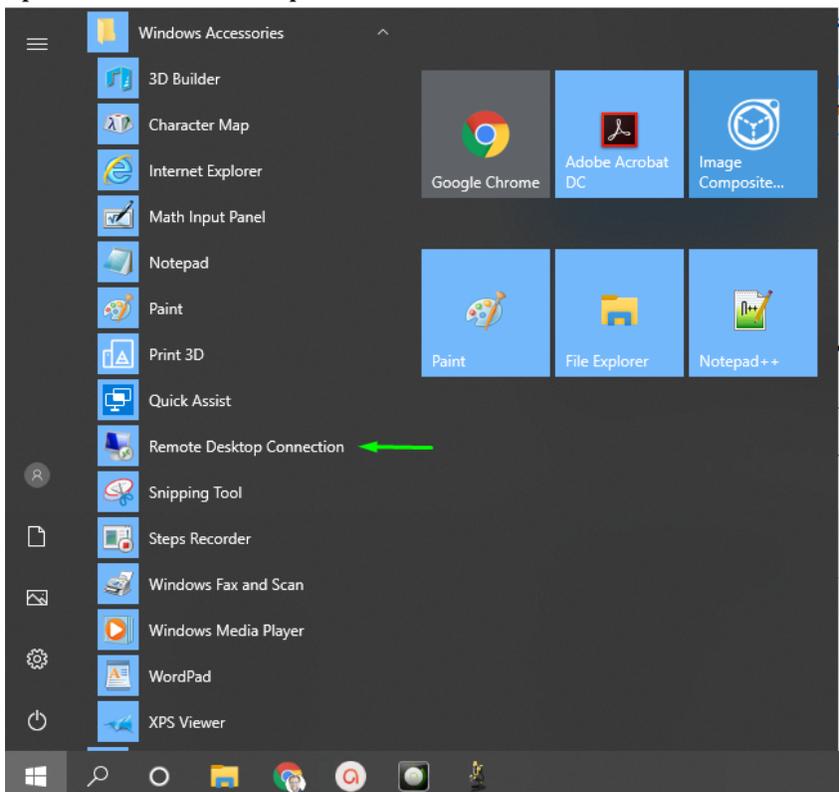
If you're lucky enough to have a high resolution laptop or monitor at home, then you can follow this quick procedure to connect to your BIOQUANT computer in the lab.

1. Make sure your desktop size is 1920x1200 or higher.

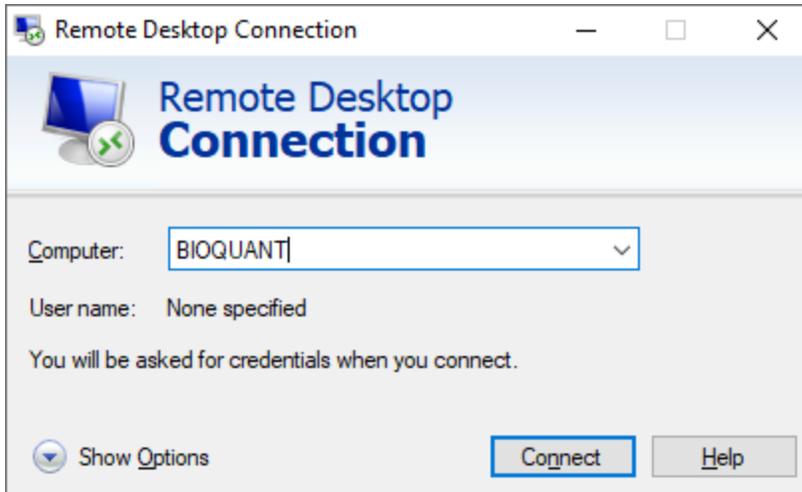


To check, from the Start menu, click Settings. On Settings click System. Scroll down to the Display resolution setting. It should be 1920x1200 or higher. If you can't set it that high, skip down to the "Configuring Windows Remote Desktop for Home Monitors Less than 1920x1200" procedure below.

2. Establish your VPN connection.  
Check with your IT staff for instructions on this part.
3. Open Remote Desktop Connection. It's under the Windows Accessories folder on Start.



4. Enter the name of the BIOQUANT computer.



5. Click Connect.
6. After you log in to the BIOQUANT computer, you'll be able to use BIOQUANT normally. You'll see a blue bar across the top of your screen with the name of the BIOQUANT computer on it. As always, contact BIOQUANT support at [support@bioquant.com](mailto:support@bioquant.com) with any questions!

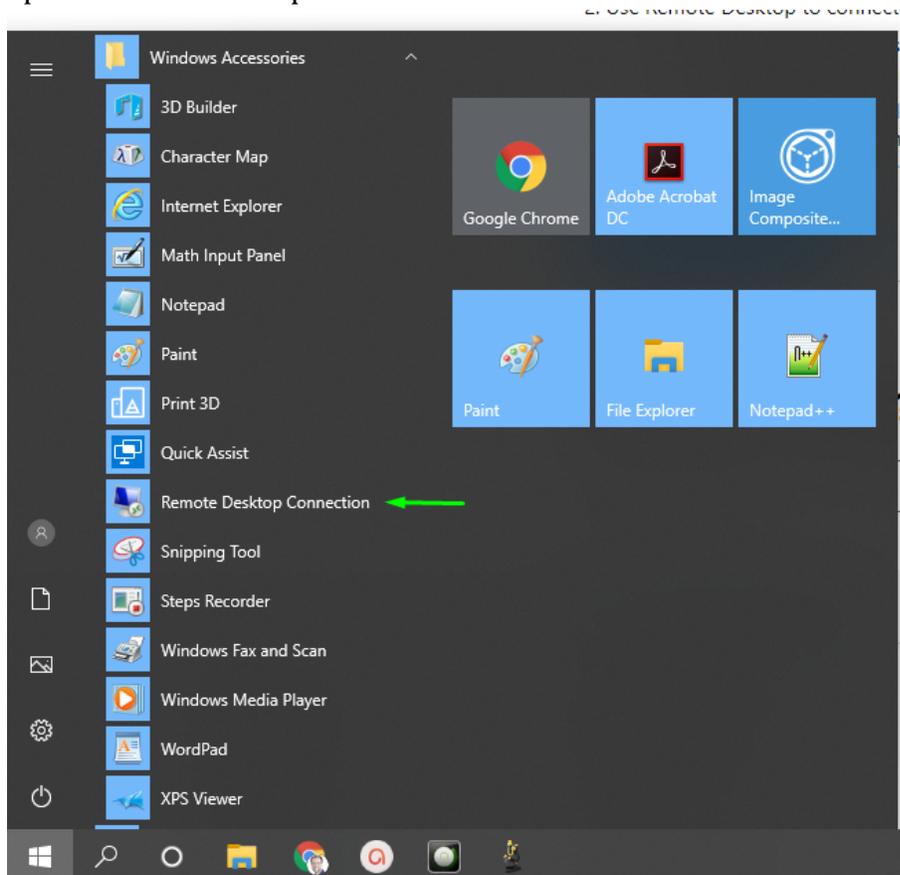
## Configuring Windows Remote Desktop for Home Monitors Less than 1920x1200

Most home monitors or laptops don't have the high resolution used by the BIOQUANT computer. Fortunately, there's a way to get the Windows Remote Desktop software to dynamically shrink the BIOQUANT desktop to fit your desktop at home. Unfortunately, the procedure's a bit tedious. Fortunately, you only need to do this once. As always, get in touch with us a [support@bioquant.com](mailto:support@bioquant.com) with questions.

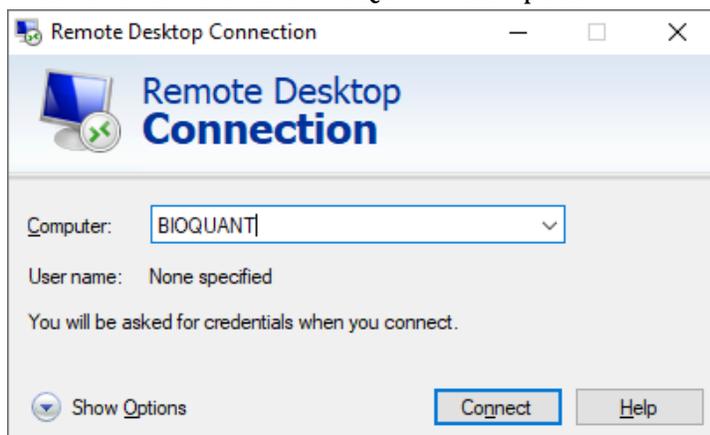
### Consider Buying a 1920x1200 Monitor

A really simple solution is to [buy a Dell U2412M monitor](#). They cost \$250 last time we checked. You may be able to get them cheaper at Amazon. It will make using the BIOQUANT software easier.

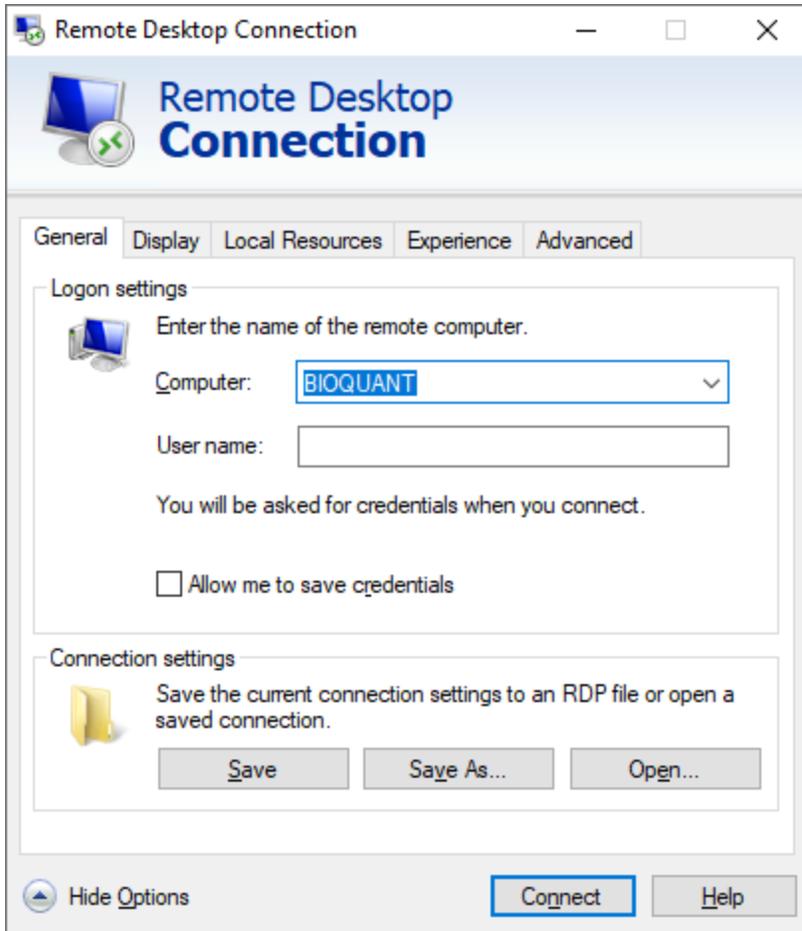
#### 1. Open Remote Desktop Connection



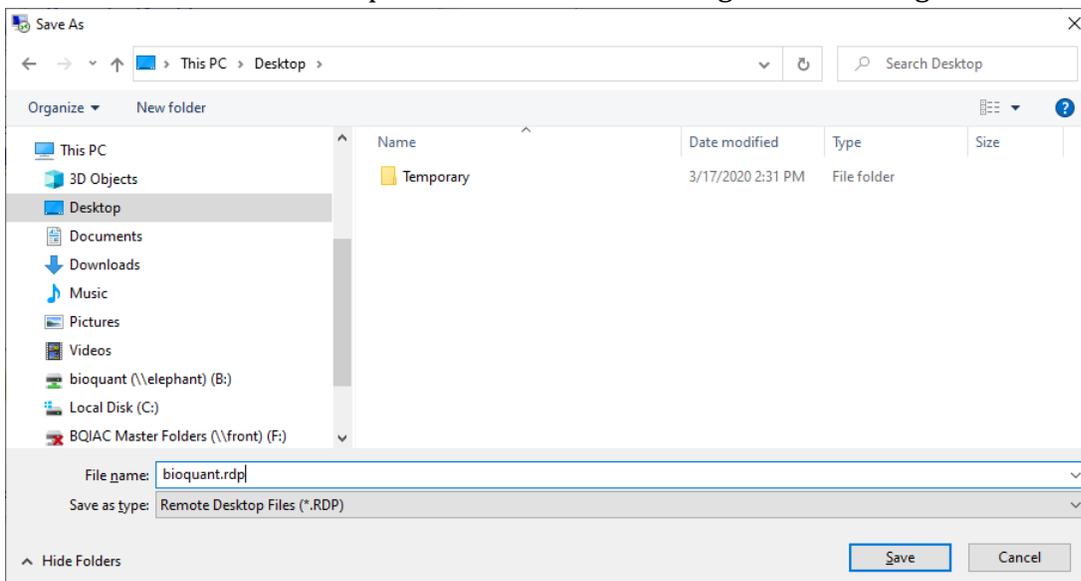
#### 2. Enter the name of the BIOQUANT computer.



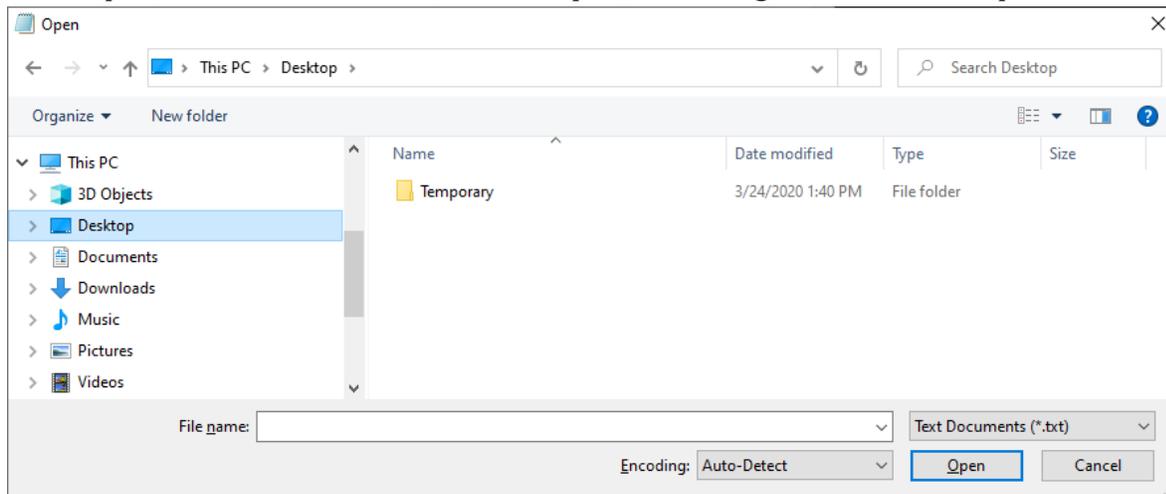
3. Click Show Options



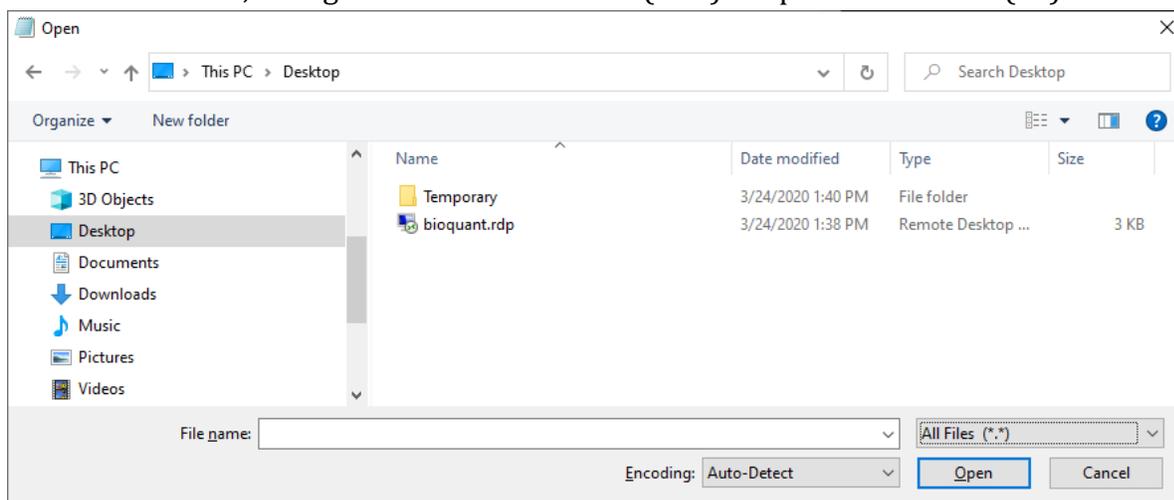
4. Click Save As... and save these settings as bioquant.rdp on your desktop. We'll need to make some changes to the settings in this file. We checked. There's no way to use the normal Remote Desktop Connection box to change these settings.



- Now from the Start button, open Notepad.  
We'll need to use Notepad to edit the settings in the bioquant.rdp file.
- In Notepad, from the File menu, choose Open, and navigate to the desktop.



- Next to File name, change the Text Documents (\*.txt) drop list to All Files (\*.\*)

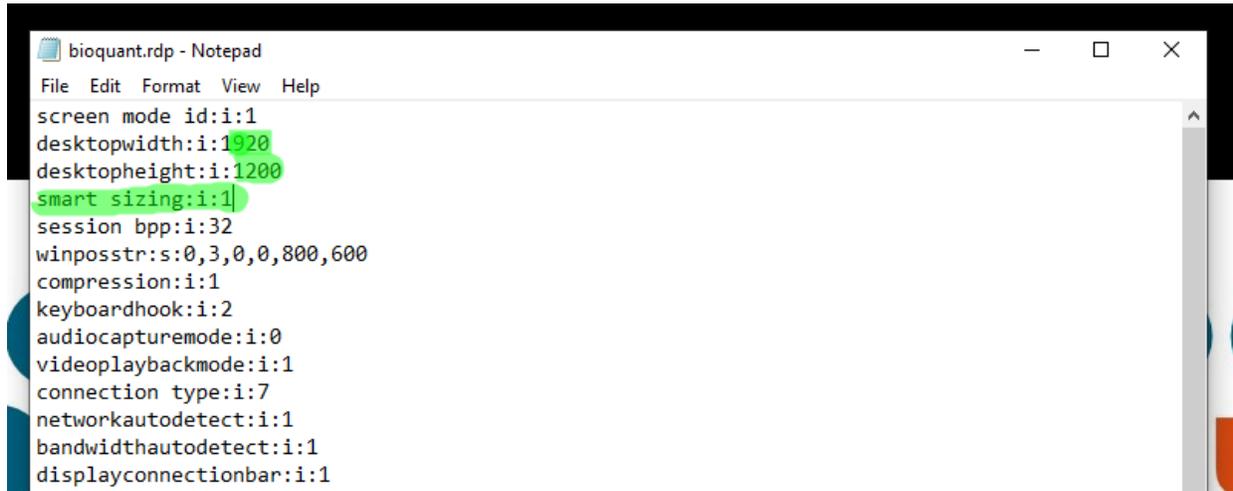


- Double click on the bioquant.rdp file to open it.



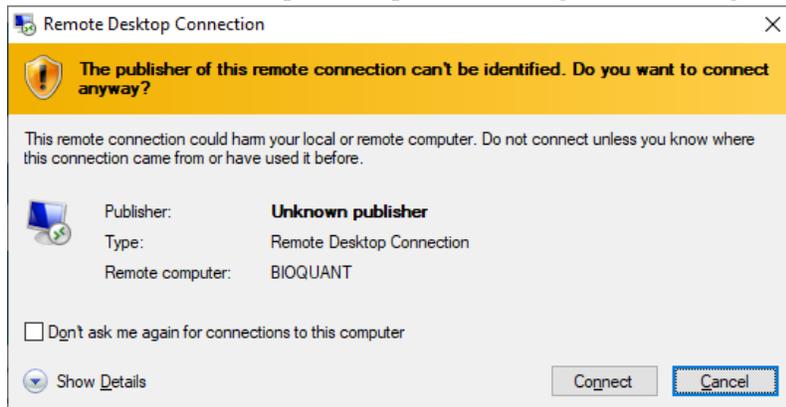
9. Make these changes:
  - a. Change the "screen mode id:i:" value to 1.
  - b. Change the "desktopwidth:i:" value to 1920.
  - c. Change the "desktopheight:i:" value to 1200.
  - d. If the line "use multimon:i:1" appears, delete it.
  - e. Underneath the line "desktopheight:i:1200", add "smart sizing:i:1"

10. Your file should now look like this:

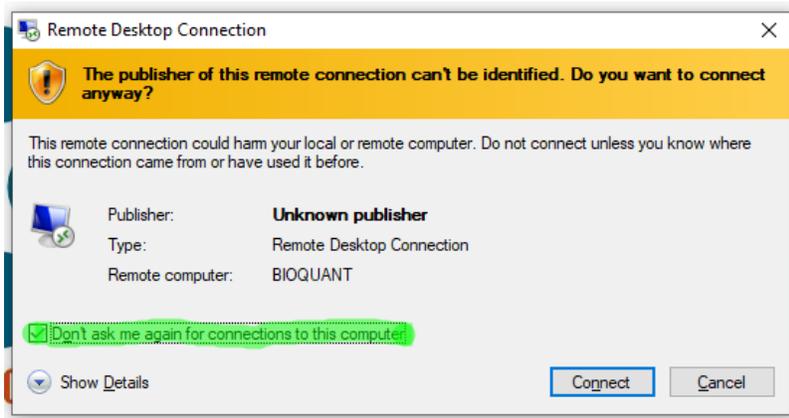


```
bioquant.rdp - Notepad
File Edit Format View Help
screen mode id:i:1
desktopwidth:i:1920
desktopheight:i:1200
smart sizing:i:1
session bpp:i:32
winposstr:s:0,3,0,0,800,600
compression:i:1
keyboardhook:i:2
audiocapturemode:i:0
videoplaybackmode:i:1
connection type:i:7
networkautodetect:i:1
bandwidthautodetect:i:1
displayconnectionbar:i:1
```

11. From the File menu, choose Save.
12. From the File menu, choose Exit.
13. Double click the bioquant.rdp file. You'll get a warning message. This is normal.



14. Check the "Don't ask me again for connections to this computer" check box.

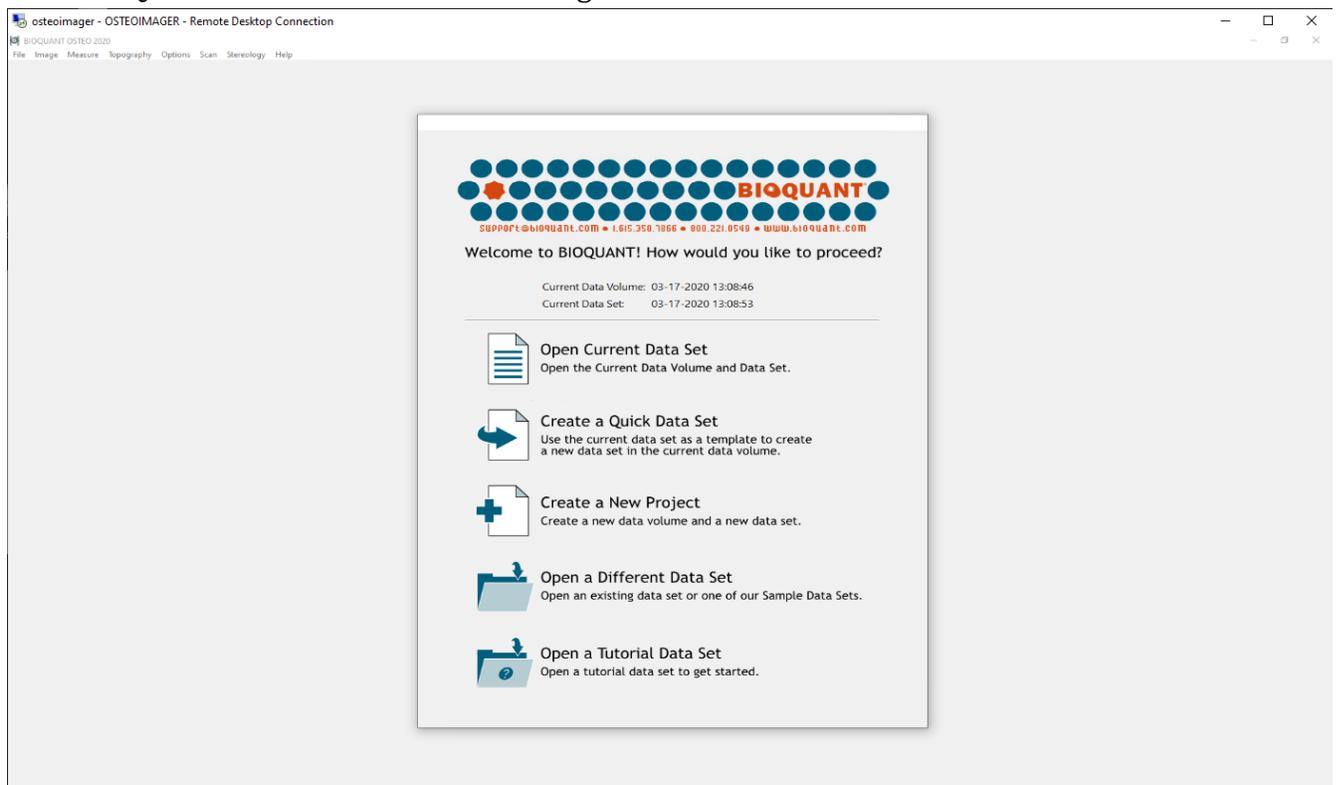


15. Click the Connect button.

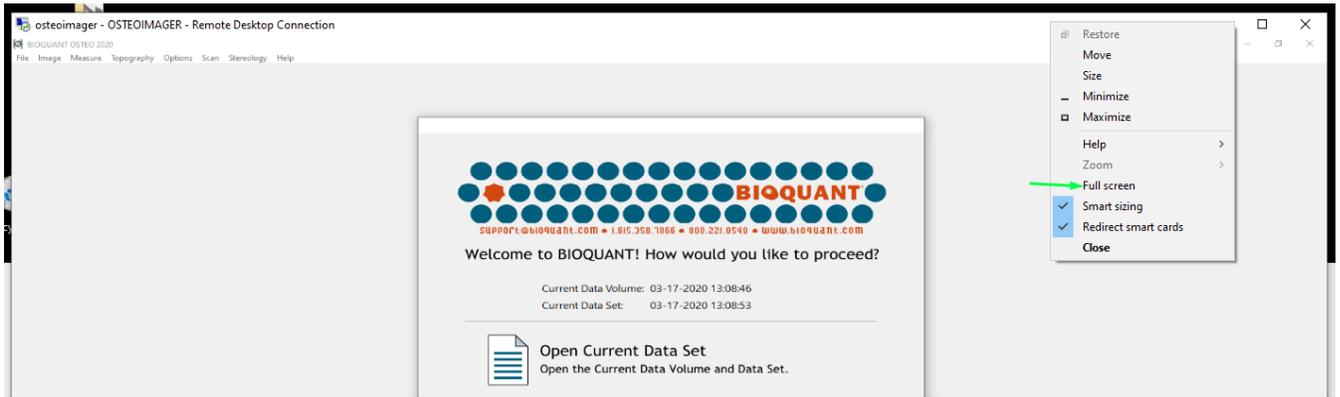
16. You'll need to log into the BIOQUANT computer. Different universities handle this differently, so follow your IT department instructions.

17. Once you're logged in you'll see your desktop.

18. Start BIOQUANT. You should see something like this:



19. You're all set! You can make the view of the BIOQUANT computer full screen by right clicking the title bar and choosing "Fullscreen"



20. This will give you a special blue “Full screen bar” at the top of the desktop.