

The Lamplighter Green Team is asking the entire Lamplighter Community to participate in the Stanford University folding@home program.

Proteins are elementary machines inside every cell that we rely on to keep us alive and healthy. They assemble themselves by “folding.” When proteins misfold, there can be serious health consequences. If we better understand protein misfolding we can design drugs and therapies to combat these illnesses.

Stanford University has a program called “folding @home.” Folding@home software aids research by simulating protein folding. All they need is for you to download the software to your computer and then all the computers in the world work together to solve the mystery of protein folding. This could bring an end to diseases such as cancer, Parkinson’s, Alzheimer’s, and more. Folding@home is dedicated to understanding protein folding, the disease that result from protein misfolding, and novel ways to develop new drugs.

The problems require so many calculations, Stanford asks people to donate their unused computer power to help them crunch some of the numbers. Servers at Stanford University deliver individual “work units” to thousands of computers around the world. Each of these work units is a small piece of a massive problem. When a computer finishes a work unit, it sends the results back to Stanford and gets a new work unit. Stanford’s computers then stitch together all the results to solve bigger problems.

The software runs while you do other things like cooking, playing, and working. It runs even while you sleep. So, we are asking the Lamplighter Community to do the following:

How to “START FOLDING”

Step 1. [Download](#) protein folding simulation software called Folding@home. Chrome is the only browser that you can use.

Step 2. Run the installation. The software will automatically start up and open a web browser with your control panel.

Step 3. Follow the instructions to Start Folding.

Step 4. Enter 227675 where it says "for team: _____", it counts your points toward the Lamplighter team.

Stanford University will send your computer a folding problem to solve. When your first job is completed, your computer will swap the results for a new job.

Here is the website for more info:

<http://folding.stanford.edu/>

For more information, check out this video.

<https://www.youtube.com/watch?v=7sJx9z1uB9k#action=share>