Cyrus automates a set of Rosetta protein design software protocols that have been refined and tested on experimental data sets. Cyrus Bench® is an easy-to-use, SaaS offering proven to reliably perform essential tasks in protein engineering and modeling for consumer products applications.

- Applications in Green Chemistry: Enzyme engineering for biocatalytic production of feedstock molecules
- Applications in small molecule discovery: Scents and other bio-active small molecules
- Highest Accuracy Protein Structure Prediction / Homology Modeling - Useful in enzyme engineering
- Protein Stabilization - via single and multiple point mutations and evolutionary redesign
- Fast Free Energy Calculations - $\Delta \Delta G$, broadly useful in protein engineering
- Loop Modeling and Design - optimization or de novo
- Identification of Alternative Protein Structure Conformations - Applications in small molecule discovery
- Enzyme Optimization

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Easy to Use Graphical User Interface

Massively Scalable Cloud Implementation

No Installation Required

Runs in Chrome Browser

Full-Time Professional Support

*in silico* Protein Engineering using **Rosetta**

Validated with over 1000 publications

cyrusbio.com