**TITLE: Scientist**

Overall Objective

Design, execute, and model biophysical experiments to consistently deliver sresults. Formulate hypotheses, review scientific literature and draw on experience to solve critical research problems and create new approaches in structural biology. Comfortable working in a fast-paced, goal-oriented research environment to develop novel applications of second-harmonic and sum-frequency generation (SHG and SFG). Experience with structural biology including computational approaches is a requirement.

Key Results Expected

* Develop novel computational methodology for protein structure modeling using SHG data
* Implement algorithms and write software as needed
* Analyze data and compare with controls
* Write and publish scientific papers on results
* Work closely with product development group

Skills & Experience

* Excellent track record with computational approaches and modeling in structural biology.
* Experience with surface second-harmonic generation and/or sum-frequency generation measurements, including interferometric measurements, or optical techniques of comparable sophistication. Some experience with biological samples preferred.
* Comfortable with optics and quantitative analysis. Ability to implement efficient experimental methods and develop software in MatLAB or similar to analyze data.
* Excellent hands. Ability to execute experiments accurately and consistently. Hands-on scientist who enjoys both performing and analyzing experiments.
* Individual excellence, team spirit. Capable of working well within a team of scientists, engineers and business-oriented colleagues with diverse backgrounds, united by ambitious goals.
* Ability to think independently and critically is paramount. Must have strong record of success.
* PhD in Biophysics, Physics, Applied Physics, Biochemistry or Chemistry is required.

Other Information

* Full time employee at Biodesy, Inc.
* Located in South SF
* See [www.biodesy.com](http://www.biodesy.com) for more information