

## **CALL FOR PROPOSALS IN DEEP LIFE MODELING AND VISUALIZATION**

The Deep Life Modeling and Visualization (DLMV) group of the Deep Carbon Observatory's (DCO) Deep Life initiative invites applications for 3-12-month PhD student fellowships.

### ***Fellowship Goals***

We aim to support innovative Deep Life research ideas and groundbreaking new projects involving (1) thermodynamic modeling, (2) modeling of microbial activity and population size, and/or (3) modeling of microbial biogeography. Applicants are strongly encouraged to include a visualization component in their modeling projects that will help illustrate potential changes in microbial energetics, activity, population size, and community composition through space and/or time. Preference will be given to research descriptions that focus on life and carbon cycling in deep subsurface environments on Earth and complement or integrate well within the greater framework of the DCO modeling initiatives (<https://deepcarbon.net/feature/dco-modeling-and-visualization-proposal-funded>)

### ***Proposal Format***

Fellowship applications will be no more than two pages long (not including references, figures, or tables). A concise abstract (max. 125 words) will be followed by a project description, a general budget description, timeline (incl. major milestones), and a description of the potential scientific impact of the proposed project. All applications and 1 or 2 letters of recommendation written by the main supervisor(s) should be sent to the below email address.

### ***Funding***

The maximum funding will be \$27,000 per proposal. Funds can be used for salary, research travel, research training, sample analyses, or the purchase of essential software, consumables, and scientific equipment.

### ***Selection Criteria***

- (1) novelty
- (2) potential impact
- (3) feasibility within the proposed budget and timeline
- (4) enrollment in a PhD program
- (5) participation in the first Deep Life Modeling and Visualization workshop held by the DLMV group from March 14 to 17, 2016, at Monte Verità, Switzerland (all travel costs covered by DLMV group).

### ***Timeline***

Proposal submission deadline: January 31, 2016.

Decision on applications: by February 10, 2016.

Projects must take place between April 1, 2016 and December 31, 2017.

*Please email proposals, letters of recommendation, and any questions prior to submission to Mark Lever at [mark.lever@usys.ethz.ch](mailto:mark.lever@usys.ethz.ch).*