

# Postdoctoral Fellowship: *Symbiodinium* and Microbial Community Influences on Coral Resilience to Climate Change University of Victoria (UVic)

The Baum Lab at the University of Victoria (British Columbia, Canada) seeks to recruit a quantitative ecologist/bioinformatician for a two-year postdoctoral fellowship to investigate how the relationships between corals and their microbial partners (*Symbiodinium*, bacteria) influence coral resilience to thermal stress.

The postdoctoral fellow will lead research synthesizing an extraordinary next-generation sequencing (ITS2, 16S) longitudinal data set collected from multiple coral species on Kiritimati (Christmas) Island over the course of the 2015-2016 El Niño event. **See [baumlab.weebly.com](http://baumlab.weebly.com) for more information about our research on Kiritimati**

Interested candidates must have excellent programming skills, advanced knowledge of bioinformatics and statistics, experience working with large microbial data sets, ideally in-depth knowledge of corals and either *Symbiodinium* or coral-associated microbes, and an outstanding publication record. Candidates must be eligible to apply this year for fellowships that would support the fellow's salary (e.g. NSERC Postdoctoral Fellowship; Banting Fellowship; Smith Conservation Research Fellowship; SESYNC Fellowship etc.) and be highly competitive for these fellowships. Dr. Baum will work with the successful applicant to craft the postdoctoral fellowship.

## Qualifications:

- A PhD in ecology, oceanography, mathematical biology, statistics, or computer science.
- Experience processing, manipulating, and modelling large next-generation sequencing data set. Demonstrated proficiency with R, Python, and bioinformatics pipelines. Excellent technical, analytical, computer, organizational, and problem-solving skills. Strong attention to detail, and meticulous work style, as evidenced by previous research.
- Experience working with *Symbiodinium* and/or coral-associated microbes and in-depth understanding of the related literature.
- Excellent time management skills, including the ability to meet project goals in a timely manner, and follow through on projects.
- Strong interpersonal and communication skills, the ability to work both independently and collaboratively, and to communicate research findings both at professional meetings and in high quality peer-reviewed journals.

**To apply:** To be considered for this opportunity please email Julia Baum (baum 'at' uvic.ca) with an expression of interest (including your relevant experience), and a CV including publication list, clear list of relevant quantitative skills, and references.

**Start date:** Flexible (anytime in 2018, once funding secured).