Undergraduate Research Opportunity in Marine Calcification and Global Ocean-Climate Change

The Ries Laboratory (http://nuweb2.neu.edu/rieslab/) in the Department of Marine and Environmental Sciences at Northeastern University seeks an undergraduate research assistant for conducting federally funded research on the relationship between global ocean-climate change and marine calcification, to begin immediately. Research will include field investigations of modern (e.g., coral reefs) and/or ancient (e.g., limestones) carbonate systems coupled with laboratory calcification experiments. This opportunity affords access to state-of-the-art analytical equipment, including LA-ICPMS for trace element analysis, XRD for mineralogical characterization, isotope ratio mass spectrometry for δ34S, δ13C, δ11B and δ18O, and SEM with EDS/EBSD for micro-imaging and elemental/mineralogical mapping. The work is based at Northeastern University’s Marine Science Center (http://www.northeastern.edu/marinescience/), located on the shores of the Massachusetts Bay on the picturesque Nahant peninsula (8 miles north of downtown Boston). Previous undergraduate researchers working with Prof. Ries in this capacity have published their research as first authors in internationally recognized scientific journals (e.g., http://www.sciencedirect.com/science/article/pii/S0022098112004054). The renovated MSC features a state-of-the-art flow through seawater facility, direct access to classic New England rocky shore intertidal study sites, an in-house SCUBA program, and small-craft research vessels. Highly motivated and creative individuals with strong writing and analytical skills are encouraged to apply. Interested individuals should send their CV and a letter of interest to Prof. Justin Ries at j.ries@neu.edu.