Graduate 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 a graduate student interested in conducting federally funded research on the relationship between global ocean-climate change and marine calcification, to begin fall 2014. 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 $\delta^{34}S$, $\delta^{13}C$, $\delta^{11}B$ and $\delta^{18}O$, and SEM with EDS/EBSD for micro-imaging and elemental/mineralogical mapping. In addition to completing coursework in their chosen field, the selected graduate student will receive in-depth training in carbonate geochemistry, carbonate sedimentology, biomineralization, global ocean-climate change, and paleoceanography, which will directly support his/her research objectives. The graduate student will be 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). 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 apply to Northeastern’s Graduate Program in Ecology, Evolution, and Marine Biology (http://www.northeastern.edu/mes/) at https://neugrad.askadmissions.net/emtinterestpage.aspx?ip=account. Applications are due December 1, 2013. Please direct specific inquiries to Prof. Justin Ries at j.ries@neu.edu.