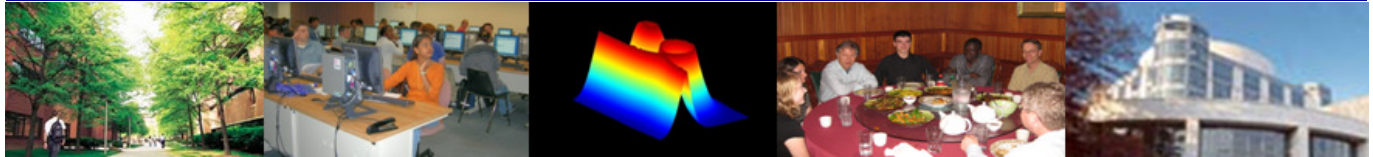




AN HONORS UNIVERSITY IN MARYLAND

RESEARCH EXPERIENCES FOR UNDERGRADUATES SITE



**REU Site: Interdisciplinary Program in High Performance Computing**

University of Maryland, Baltimore County (UMBC)  
 Baltimore, Maryland  
 Summers 2012, 2013, 2014  
[www.umbc.edu/hpcreu](http://www.umbc.edu/hpcreu)

**Key Elements:**

- eight weeks from June to August; for exact dates see [www.umbc.edu/hpcreu](http://www.umbc.edu/hpcreu)
- UMBC is located in the Baltimore-Washington corridor of industry and government agencies
- team work with dedicated graduate assistants and faculty mentors
- professional development workshops; GRE prep course; poster presentation; technical report and publication opportunities
- no cost to the participants: campus housing, meal plan, travel allowance, and course tuition covered, plus program stipend of at least \$3,600, subject to funding approval by the NSF

**Unique Features:**

- fully transferable three-credit course MATH 447: Introduction to Parallel Computing using C with MPI
- state-of-the-art 86-node parallel cluster tara in the [UMBC High Performance Computing Facility \(HPCF, www.umbc.edu/hpcf\)](http://www.umbc.edu/hpcf)
- includes introduction to tools of scientific and statistical computing: MATLAB, R, Linux, LaTeX
- interdisciplinary projects with clients from industry and government agencies through the [Center for Interdisciplinary Research and Consulting \(CIRC, www.umbc.edu/circ\)](http://www.umbc.edu/circ)
- field trips to local industry and government labs

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