

## Research Experience for Undergraduates (REU) Positions

### *Graph Analytics, In-Memory Analytics and Batch Processing*

This summer, the Center for Visual and Decision Informatics is seeking to hire **TWO** UL Lafayette undergraduates to conduct research aimed at developing distributed processing tools for a Distributed Visual Analytics Sandbox (VAS) for High Volume Data; a unique hybrid hardware/software platform being designed at UL Lafayette to handle large scale data and enable visualization. The project will involve literature surveys, algorithmic exploration, and system development. Students will become familiar with ongoing research on *graph analytic methods, in-memory analytics, and distributed batch-based processing*. Each student will conduct research aimed at extending the current-state of the art techniques to enhance the VAS. The results of the research will be presented at the CVDI Industry Advisory Board meeting in October 2015. Each position provides 8 weeks of full-time support during the summer and 16 weeks of part-time support in the fall (~\$7,685 per position in total). Positions will remain open until filled or until the summer session begins.

#### General Requirements

- Junior and/or Senior (not graduating before December 2015)
- U.S. citizen, U.S. national, or permanent resident of United States
- Background in software development using C++ and/or JAVA
- Interest in Conducting Research

#### Desired Skills/Knowledge

- Computer Science, Informatics, Engineering, Math, or Physics major
- Experience with
  - Graphics
  - Distributed Processing
- Relevant Courses such as:
  - Operating Systems
  - Algorithms/Data Structures
  - Scientific Computing
  - Human-Computer Interaction
  - Artificial Intelligence

For more information, please contact

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For more information about CVDI, please visit <http://nsfcvdi.org>

Send resumes to Aerial Frederick at [apf2032@louisians.edu](mailto:apf2032@louisians.edu) with **MRI REU Applicant** as the subject line.