



# CI-TEAM Proposal 0636336

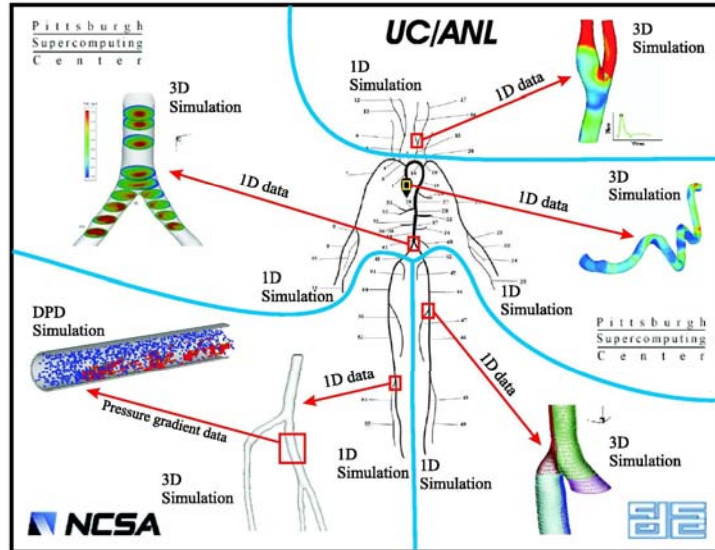


## Training Simulation Scientists in Advanced Cyberinfrastructure Tools and Concepts

PIs: G.E. Karniadakis ([Brown U](#)), S. Dong ([Purdue U](#)) and N. Karonis ([Northern Illinois U](#))

### Goals:

- Advance biomechanics simulation tools for the TeraGrid (TG) and make them available to the wider scientific community.
- Lower barriers to the use of TeraGrid for students, teachers and researchers.



•Concept and implementation of Biomechanics Gateway on TG.

### New courses on:

- Grid computing, multiscale biological modeling, and scientific visualization in immersive interactive environments



•MET school students at Brown University: Richard Gil (standing) has been simulating brain aneurysms on TG supercomputers.



•Middle-school students attending the workshop “Empowering the Future”

### Outreach:

- Community Colleges (Chicago area)
- High schools (Providence area)

- Met is a unique public school dedicated to individualized, applied learning.
- Met School’s principle “LTI: Learning Through Interests”