Meeting the Challenges of Multi-University Centers

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Phase I, Four-Site Center

I/UCRC Annual Meeting
January 10, 2013
About our Center

• Membership: Approximately 20 members representing
  • Defense and aerospace industries
  • Electronics and computer systems manufacturers
  • Software developers
  • Healthcare application developers
  • Cloud infrastructure and software service developers
  • Governmental agencies

Many multiple memberships

Mission

Advance research and development of Net-centric and Cloud based computing environments
WBC Organizational Structure

Center Leadership Team
- Director (UNT)
- Admin Asst

NSF
- Program Director
- NSF External Evaluator

Industrial Advisory Board

University Policy Committee(s)

Members

Partner Universities
- UNT
- UTD
- ASU
- MST

Projects
- Project 1
- Project 2
- Project 3
- Project n

Partner Universities

Evolution of the Center

• Explored creation of a DFW area consortium
  • Developed agreements among DFW universities for collaboration
  • IUCRC was suggested as a model for the consortium

• I/UCRC Panning Grant: 2008
• I/UCRC status: 2009
• Originally Two NSF Sites (UNT, UTD) and one Partner University (SMU)
• Two new sites added (ASU-2010; MST 2012)
• Another site in planning stages (Purdue)

• Phase II for original sites in 2014
Ray Paul encourages DFW universities to form a research consortium
Summer 2005

Working group formed with UNT, UTD, UTA, SMU, Raytheon, Lockheed Martin Aero, TI, and several others
2005-2006

Governance documents signed by Presidents
Late 2006

First attempt of IUCRC creation with ASU as lead
Summer 2007

Second attempt of IUCRC formation with UNT (as lead), UTD and SMU
September 2007

Full proposal for IUCRC creation submitted to NSF
September 2008

NSF Net-Centric IUCRC approved with UNT as lead, UTD as a site and SMU as an affiliated site
February 2009

Kickoff meeting in Dallas
April 2009

ASU plans to join
February 2010

ASU becomes a site
August 2010

MST plans to join
February 2011

MST becomes a site
August 2012

Purdue submits a planning grant proposal to NSF
September 2012

Semi-annual IAB meeting
October 2012

2006 2007 2008 2009 2010 2011 2012
### Accomplishments By Numbers

Combined totals for all sites since 2009 (not including MST)

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Industrial Memberships raised</td>
<td>$1,660,000</td>
</tr>
<tr>
<td>Other funds leveraged</td>
<td>$2,363,000</td>
</tr>
<tr>
<td>Total publications</td>
<td>37</td>
</tr>
<tr>
<td>Patents filed or received</td>
<td>3</td>
</tr>
<tr>
<td>Total number of students that participated</td>
<td>67</td>
</tr>
<tr>
<td>Number of underrepresented students involved</td>
<td>8</td>
</tr>
<tr>
<td>Total number of graduates</td>
<td>35</td>
</tr>
<tr>
<td>Graduates employed by member companies</td>
<td>13</td>
</tr>
<tr>
<td>Total number of faculty involved</td>
<td>19</td>
</tr>
<tr>
<td>Number of women faculty involved</td>
<td>5</td>
</tr>
</tbody>
</table>
Novel Characteristics/Innovative Management

Novel Characteristics:
• Original sites have strong collaborative agreements in place for sharing and transferring funds among the sites
  • Original industrial members viewed the organization as collaborative
  • This became more difficult with additional (geographically distant) sites
• Original university administrators waived indirect cost on memberships, provided the funds are used to support graduate students
  • One membership = one graduate student for approximately 1 year
• Collaborative recruiting efforts include Directors, members and partner universities

Innovative Management:
• Single web-site for all documents and project reports
• All documentation is standardized across four universities
• Bi-monthly meetings for progress reporting and planning
New Ideas For Collaboration

Ideas for collaborative projects

• Industrial members vote on more than one project
  • With strong preference for one
• Each site contributes funds to a pool
  • Pooled funds will support a competitive research project from any university site
• Multiple sites propose (larger) joint project
  • Supported by members from the different sites

• Not yet implemented but hope to do so starting in 2013
Thank you.

Questions?