

# GENI-Enabling Universities

GENI Engineering Conference  
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Build a national scale, virtualizable, programmable, sliceable GENI-enabled network, spanning universities, regional and national R&E backbones

- Networking and distributed systems
- Broadband application development (e.g., Ignite)
- Data intensive science (e.g., genomics, HEP)
- GRID computation (e.g., OSG, Condor)
- Research on OpenFlow/SDN, e.g.,
  - security, management, routing and scalability in heterogeneous, potentially multi-domain networks
  - integration of virtual machine and virtual network environments
  - the power of abstraction provided by SDN

- Efficiently support central IT operations/services
- Support R&E data centers
- Support US IGNITE

- GENI-enable production university networks
- Deploy on backbone and in CS, Engineering and additional buildings
- Partnership between GENI, CIO organizations and researchers is critical

- GENI-enable 20+ additional universities
  - CIO workshop in July
  - Two-person “Mentor” teams visiting candidates this fall, helping CIO organization draw up campus plans
  - Workshop for network engineers held prior to GEC
  - Discussion with potential industry partners underway
  - “University expansion” solicitation expected – early 2012, subject to availability of funding
  - **OPEN TO ALL UNIVERSITIES**
- Future
  - Repeat program described above – send indication of interest
  - 200+ GENI-enabled universities over several years

- Case Western Reserve
  - Cornell
  - Duke
  - Florida International
  - NYU
  - Purdue
  - Univ Chicago
  - Univ Colorado
  - Univ Florida
  - Univ Houston
  - UIUC
  - Univ Kansas (Lawrence)
  - Univ Massachusetts, Amherst
  - Univ Massachusetts, Lowell
  - Univ Michigan
  - Univ Tennessee, Chattanooga
  - Univ Utah
  - Univ Washington
  - Univ Wisconsin, Madison
- **Mentors**
  - Clemson
  - Georgia Tech
  - Indiana
  - Stanford
  - Rutgers

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