

# **NIST – Who We Are and What We Do**

**NIST is a world class scientific and technical agency uniquely focused on driving innovation and economic competitiveness through:**

- **a world-leading scientific research program -- measurement, technology, and standards solutions to our stakeholders**
- **a nation-wide network of centers -- focused on strengthening our nation's small and medium manufacturers**
- **a program in performance excellence -- used to assess the nation's companies and organizations which is recognized, utilized, and emulated around the world**
- **an Advanced Manufacturing National Program Office -- facilitating expansion of a nation-wide network of Institutes for innovation in Manufacturing**

# NIST: Mission and Major Programs



Courtesy HDR Architecture, Inc./Steve Hall © Hedrich Blessing

**Mission:** To promote innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve quality of life

## Major Programs:

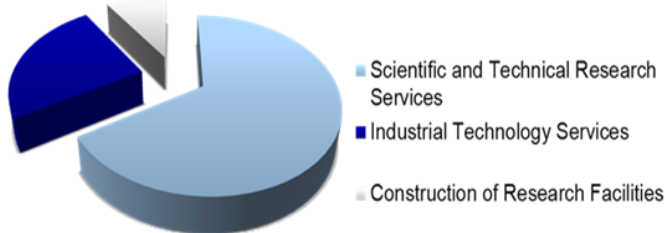
- **Research Labs:** measurement science, standards, technology
- **Manufacturing support:**
  - assistance to smaller manufacturers
  - bridging gaps between research and commercialization
- **Performance Excellence:**
  - helping organizations optimize operations and maximize results

# NIST-at-a-Glance

## Major Assets

- ~ **3,000 Employees**;  
1800 Scientists and Engineers
- ~ **3,500 Associates**
- ~ 400 NIST Staff on ~1,000 national and international standards committees

## NIST FY 2015 Congressional Appropriations \$864 M



### Plus

- ~ **\$100 M** from other Government Agencies
- ~ **\$50 M** for other reimbursable services

## NIST has two main campuses



**Gaithersburg, MD**  
**62 buildings; 578 acres**



**Boulder, CO**  
**26 buildings; 208 acres**

## and soon to be nine joint institutes

- **JILA** – *amo physics*
- **JQI** – *quantum science*
- **IBBR** – *adv. therapeutics*
- **HML** – *marine bioscience*
- **JIMB** – *genomics and synthetic biology*
- **NCCoE** – *cybersecurity*
- **CHiMaD** – *materials by design*

1901

2015



## NIST in 1901:

- Maintaining custody and dissemination of national standards of measurement
- Supporting industrial revolution
- Enhancing fire and transportation safety



## NIST today:

- a key player on Innovation Team
- go-to agency for measurements, standards, and technology
- Addressing critical national needs:
  - Advanced Communications
  - Advanced Manufacturing
  - Advanced Materials
  - Cyber-Physical Systems
  - Cybersecurity
  - Disaster Resilience
  - Forensic Science
  - Healthcare
  - Quantum Science
  - **Voting Standards**

# Technical Guidelines Development Committee (TGDC):

## Designated Federal Official:

The Honorable Matthew Masterson  
Commissioner, U.S. Election Assistance Commission

## Nominated TGDC Members

**Chair:** Willie E. May, Under Secretary of Commerce for Standards & Technology & NIST Director

**Co-Chair:** Mary Brady, NIST

### Standards Board:

**Robert Giles**, New Jersey Division of Elections

**Greg S. Riddlemoser**, General Registrar of  
Stafford County, VA

### Board of Advisors:

**Helen Purcell**, Maricopa County Recorder's  
Office, AZ

**Linda Lamone**, Maryland State Board of Elections

**ANSI:** **Scott Cooper**, ANSI

**IEEE:** **Jeremy Epstein**, SRI International

### ACCESS Board:

**Marc Guthrie**, Public Board Member, OH

**Mat McCollough**, Public Board Member, DC

### NASED:

**Lori Augino**, Washington State Director of  
Elections

**Ross Hein**, Wisconsin Government  
Accountability Board

### Technical Experts:

**Diane Golden**, Association of Assistive  
Technology Act Programs

**David Wagner**, EECS Department, Univ. of  
California-Berkeley

**Jeremy Gray**, County of Los Angeles

**McDermot Coutts**, Unisyn Voting Solutions

# Technical Guidelines Development Committee Meeting: Agenda

## July 20-21, 2015

### Portrait Room, NIST Bldg 101

#### Monday, July 20, 2015

**8:30** Pledge of Allegiance, Opening Remarks, TGDC Introductions

**9:00** Approval of Agenda

**9:15** Next Generation Guidelines

- EAC Goals & VVSG 1.1 Update
- PCEA Recommendations

*10:30 Break*

**10:45** Next Generation Guidelines – cont'd

- Voters' Perspective (Usability and Accessibility)
- Election Officials' Perspective
  - NASED Subcommittee
  - NASED
  - Standards Board
  - Board of Advisors
- Military & Overseas Voters – FVAP

*12:00 Lunch*

**1:00** Testing & Certification

- Certification updates
- State certification needs
- *Discussion*

*2:15 Break*

# Technical Guidelines Development Committee Meeting: Agenda – cont'd

## Monday, July 20, 2015 – cont'd

### 2:30 Recent Efforts

- Status/Standards Development
- Symposium Breakouts
  - Auditing
  - Innovative Trends
  - Security
  - Testing Emerging Systems
- EAC Accessibility Grants Work
- *Discussion*

### 4:30 Wrap-Up and Overview of Day 2

## Tuesday, July 21, 2015

### 8:30 Opening Remarks

### 8:45 Interoperability

- IEEE / CDF
- PEW Charitable Trusts – VIP/ERIC
- *Discussion*

10:15 *Break*

### 10:30 Next Steps

- Proposal on Public WG's
- *Discussion*

### 11:30 Next Meeting and Wrap-Up

### 12:00 Adjourn