



POSITION STATEMENT

Cyber Security Research and Development

*Adopted by the IEEE-USA
Board of Directors, 12 February 2010*

The Institute of Electrical and Electronics Engineers-United States of America (IEEE-USA) urges increased funding for cyber security research, and encourages developing programs for cyber security commercialization and workforce education, as well as programs to ensure the security of our cyber network systems, software and the public. To enhance the protection of our cyber security resources against a potential concerted attack, IEEE-USA further recommends that Congress and the executive branch work in conjunction with private industry to:

- **Authorize and Appropriate Increased and Stable Funding for Cyber Security Research.** The government should continue to provide sufficient funding to encourage and enhance cross-agency and multidisciplinary collaboration, and improved techniques and processes, coordinating efforts among R&D labs, industry, academia and the government.
- **Strengthen Authority of the Senior White House Official in Charge of Cyber Security.** This cyber security official must have comprehensive programmatic and budgetary authority and responsibility for all national cyber security programs, recognizing the need for international coordination.
- **Encourage and Support Cyber Security Technology Transfer Programs.** The government should encourage and promote industry's rapid transfer of basic and applied research results to technology and product development. It should also promote collaboration among federal laboratories, universities and industry to foster an environment for rapid application of new cyber security solutions.
- **Facilitate Commercialization.** Working with industry, government should facilitate the timely commercialization of cyber security advances from research laboratories to the marketplace.

- **Address Privacy Considerations.** In the application of cyber security measures, assure that privacy be considered and supported.
- **Facilitate Development and Implementation of Cyber Security Standards.** It is imperative for the federal government and U.S. industry to work together with standards organizations to facilitate the establishment of international standards to help industry institute baselines of acceptable security for cyber systems.
- **Support Cyber Security Education Programs.** The government should encourage and financially support developing curricula and instruction for more effective teaching and training in cyber security at all educational levels.

This statement was developed by IEEE-USA's Research and Development Policy Committee and represents the considered judgment of a group of U.S. IEEE members with expertise in the subject field. IEEE-USA advances the public good and promotes the careers and public policy interests of more than 210,000 engineers, scientists and allied professionals who are U.S. members of IEEE. The positions taken by IEEE-USA do not necessarily reflect the views of IEEE or its other organizational units.