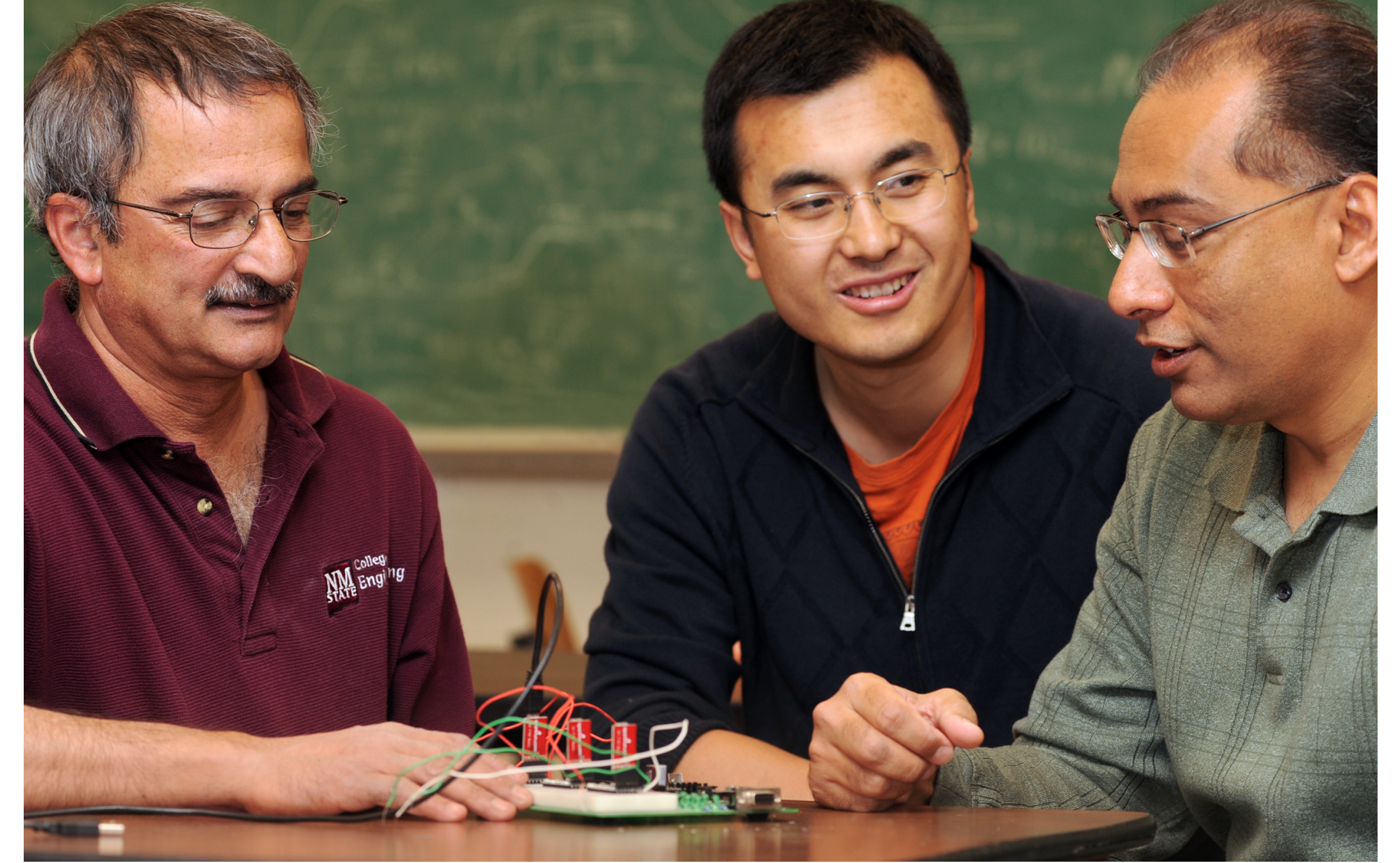
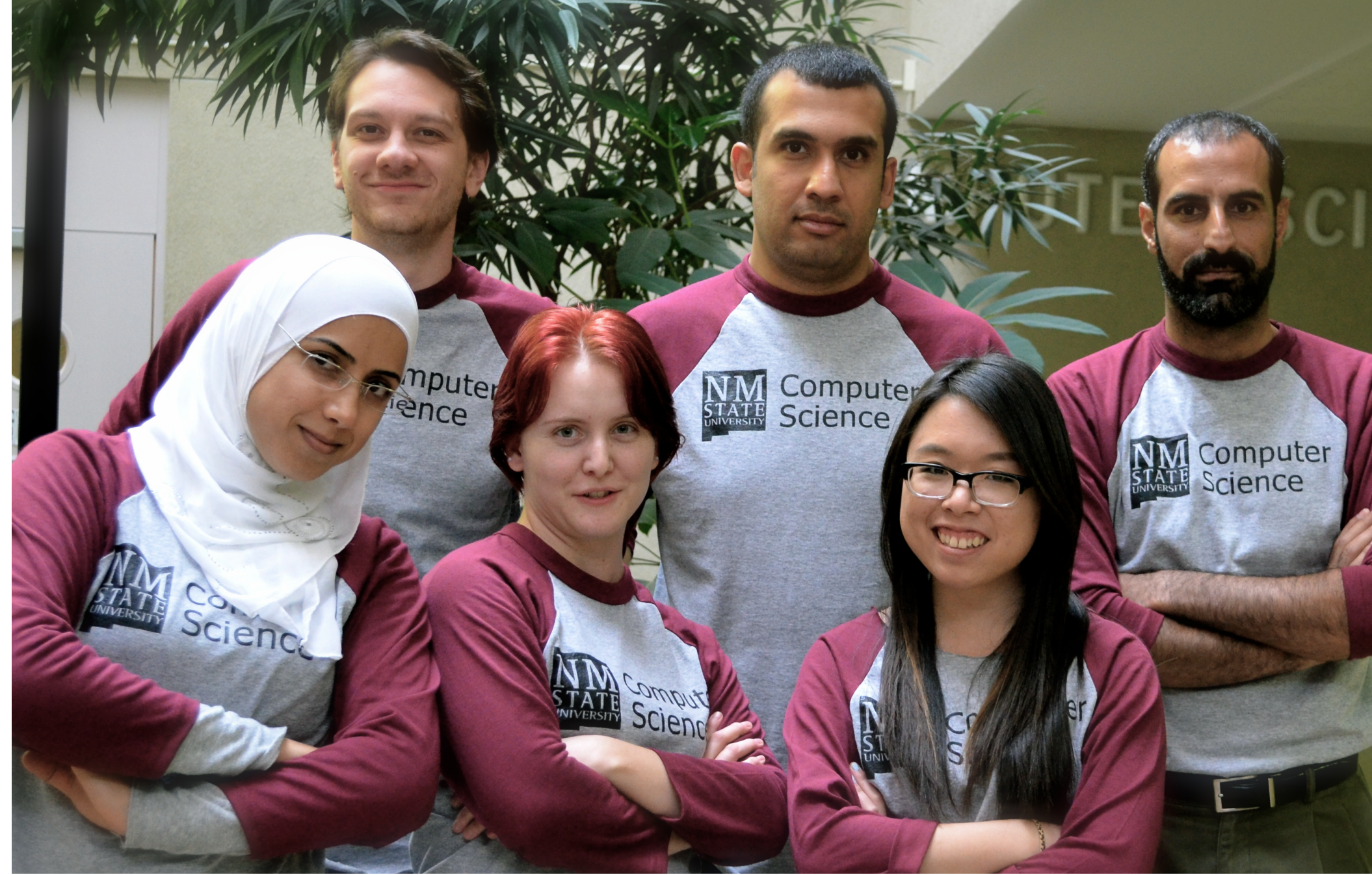
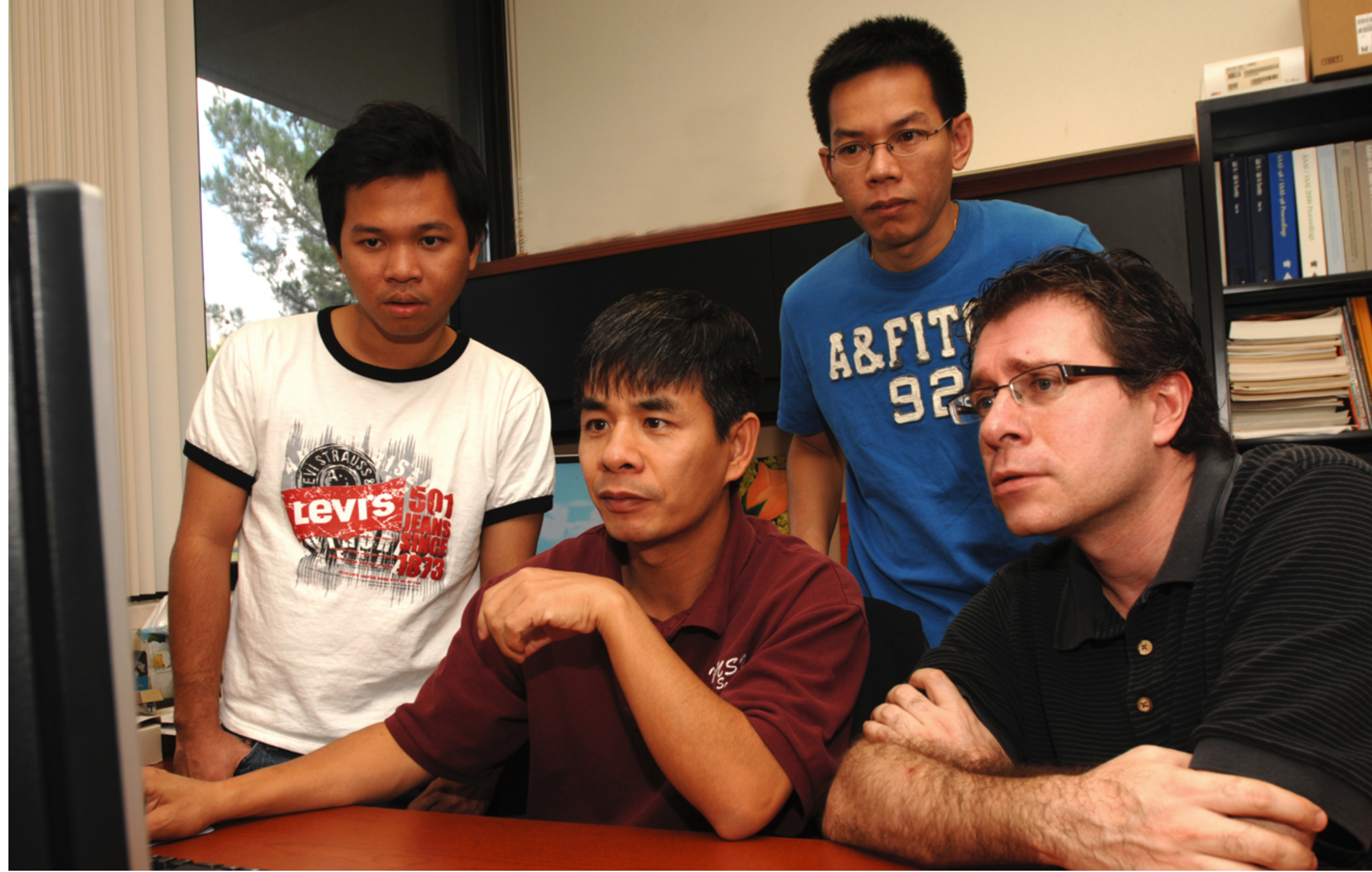


# iCREDITS

## NMSU SMART GRID CREST CENTER



### iCREDITS Center

—an epicenter for research and training in smart grids

The *Interdisciplinary Center of Research Excellence in Design of Intelligent Technologies for Smart grids* (iCREDITS) is a new research center that brings together a coalition of experts in electrical engineering, computer science, mathematics, management, and education.

**VISION:** Obtain sustainable power generation by shifting power delivery to energy delivery using smart grid concepts.

#### OBJECTIVES:

- Create a **center** to enable interdisciplinary research and training in smart grids.
- Develop a **research** agenda to realize the energy delivery paradigm and sustain the design and development of smart grids.
- Develop a comprehensive **interdisciplinary education** training pipeline in smart grids.
- Promote participation of a **diverse student population** in smart grids research and training.
- Achieve **sustainability** and **international leadership** in smart grids research and training.



### Research Projects

—developing fundamental science and engineering

**ENERGY:** Develop a formulation for energy delivery, and evaluate, validate and demonstrate the concepts through simulation studies and implementation.

Contact: Satish Ranade ([sranade@ad.nmsu.edu](mailto:sranade@ad.nmsu.edu))

**COMMUNICATION:** Design a novel, scalable communication architecture that enables smart grid entities to effectively communicate with each other.

Contact: Satyajayant Misra ([misra@cs.nmsu.edu](mailto:misra@cs.nmsu.edu))

**COORDINATION:** Design coordination mechanisms that allow smart grid entities to coordinate their actions to ensure reliable and efficient energy delivery.

Contact: William Yeoh ([wyeoh@cs.nmsu.edu](mailto:wyeoh@cs.nmsu.edu))

**MONITORING:** Develop techniques to detect and classify in real time disturbances occurring in transmission and distribution networks, so that system operators can appropriately respond to maintain system integrity.

Contact: Sukumar Brahma ([sbrahma@nmsu.edu](mailto:sbrahma@nmsu.edu))



### Job Opportunities

—working towards a smarter future

We are actively recruiting undergraduate and graduate students who are interested in working in this exciting area! Requirements: US Citizen or Permanent Resident.



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More information: <http://icredits.nmsu.edu>

The iCREDITS Center is funded by  
the National Science Foundation  
under its CREST Program

