

GRAPHENE LOGIC THAT REWIRES ITSELF ON THE FLY

Hunting for IEDs

DREAM JOBS ENGINEERS WHO LOVE WHAT THEY DO BEST

# IEEE Spectrum

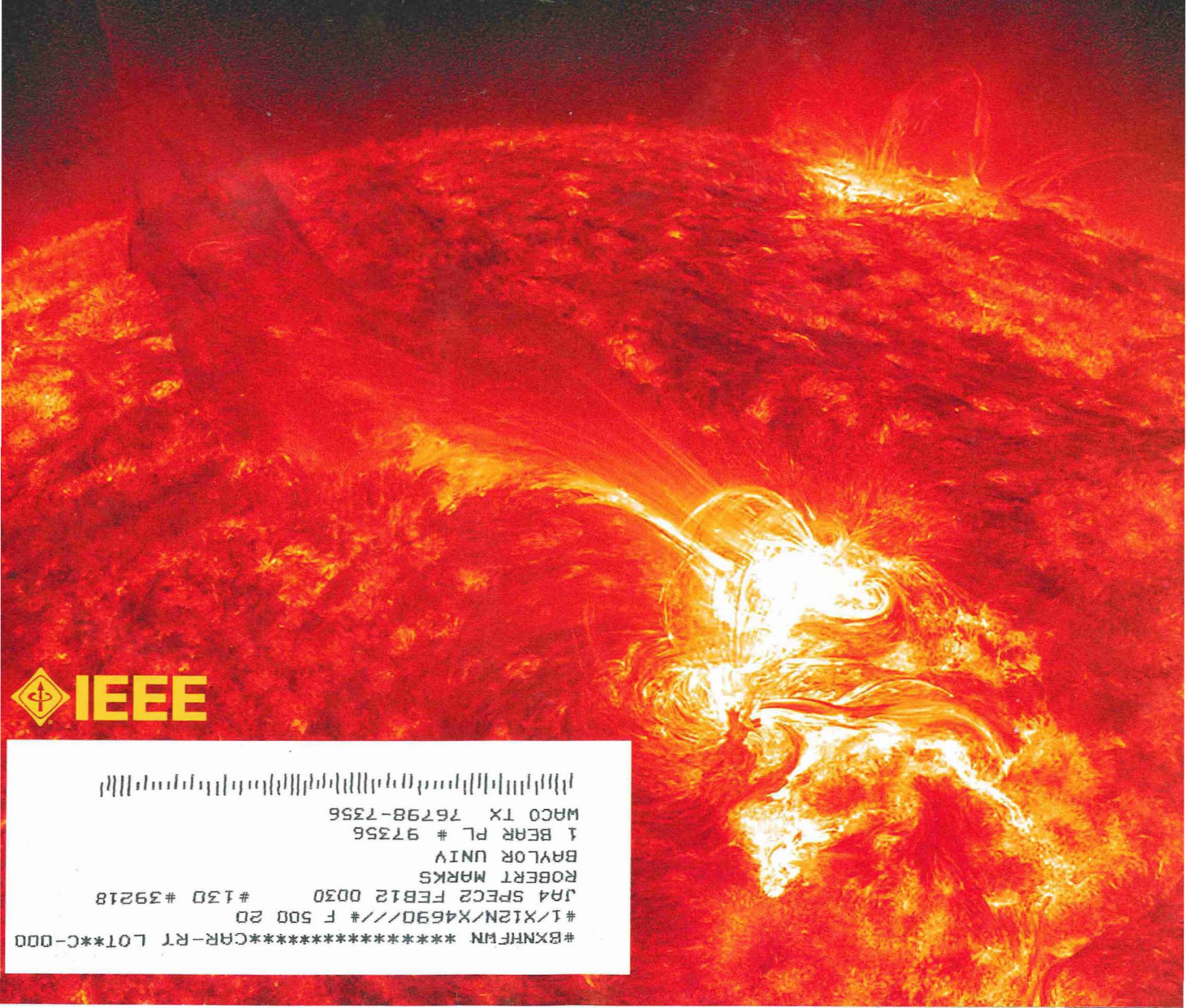
THE MAGAZINE OF TECHNOLOGY INSIDERS

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## HERE COMES THE SUN

HOW A SOLAR SUPERSTORM COULD TAKE DOWN POWER GRIDS **EVERYWHERE**



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 J14 SPEC2 FEB12 0030 #130 #39218  
 ROBERT MARKS  
 BAYLOR UNIV  
 1 BEAR PL # 97356  
 MACO TX 76798-7356





MILWAUKEE SCHOOL OF ENGINEERING

## DEPARTMENT CHAIR

### ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Milwaukee School of Engineering invites applications for the Chair of the Department of Electrical Engineering and Computer Science. The Department Chair reports to the Vice President of Academics and has overall responsibility for the Department's academic programs including all administrative, budgetary, scheduling, and personnel decisions.

The successful candidate must have demonstrated leadership capabilities, must promote the professional development of the faculty, and must have a vision for expanding collaborations with industry, government, and other programs at MSOE. The candidate is expected to work with the faculty in a variety of areas such as growing enrollment in the Department's programs and identifying opportunities for new degree offerings at both the B.S. and M.S. levels. An earned doctorate in one of the Department's fields of study or a closely-related field is required.

The Department enrolls over 700 undergraduate and graduate students, has 32 full-time faculty and 3 full-time staff. It has ABET-accredited B.S. programs in Biomedical Engineering, Computer Engineering, Electrical Engineering, Electrical Engineering Technology, and Software Engineering; and also offers M.S. degrees in Engineering, Perfusion, and Cardiovascular Studies.

MSOE is a private, application-oriented university with programs in engineering, business, and nursing. MSOE's 15+ acre campus is located in downtown Milwaukee, in close proximity to the Theatre District and Lake Michigan.

**All application materials must be submitted via email in PDF to: [work@msoe.edu](mailto:work@msoe.edu)**

Applicants should include a letter of application, curriculum vitae, statement of strategic vision for the Department, teaching interests, and names (with email and physical addresses) of at least three references.

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER



The Electrical and Computer Engineering Department of Baylor University seeks senior faculty applicants in all areas of electrical and computer engineering, with preference in the areas of cyber-physical systems (i.e., embedded systems, computer/network security, and sensor networks) as well as power and energy. Applicants must have an earned doctorate and a record of achievement in research and teaching at the rank of associate or full professor including a demonstrated record of research funding. The ECE department offers B.S., M.S., M.E. and Ph.D. degrees and is poised for aggressive expansion of its faculty and facilities, including access to the Baylor Research and Innovation Collaborative (BRIC), a newly-established research park minutes from the main campus.

Chartered in 1845 by the Republic of Texas, Baylor University is the oldest university in Texas. Baylor has an enrollment of approximately 15,000 students and is a member of the Big XII Conference. Baylor's mission is to educate men and women for worldwide leadership and service by integrating academic excellence and Christian commitment within a caring community. The department seeks to hire faculty with an active Christian faith; applicants are encouraged to read about Baylor's vision for the integration of faith and learning at [www.baylor.edu/about/vision](http://www.baylor.edu/about/vision).

Application reviews are ongoing and will continue until the positions is filled. Applications must include:

- 1) a letter of interest that identifies the applicant's anticipated rank,
- 2) a complete CV,
- 3) a statement of teaching and research interests,
- 4) the names and contact information for at least three professional references.

Additional information is available at [www.ecs.baylor.edu](http://www.ecs.baylor.edu). Applications should be sent by email as a single pdf file to [Robert\\_Marks@baylor.edu](mailto:Robert_Marks@baylor.edu), or mailed to

Dr. Robert Marks  
Baylor University  
One Bear Place #97356  
Waco, TX 76798-7356

## Assistant/Associate/Full Professor

Stony Brook University's Department of Electrical and Computer Engineering is seeking outstanding candidates for tenure-track faculty positions for Fall 2012. Strong candidates in all areas will be considered, but we are particularly interested in computer engineering candidates in the broad area of embedded systems, with specific interests in emerging domains; such as energy, security, and bio/health. The successful candidate must have demonstrated excellence in research and the ability to develop an independent research program, and have a strong interest in teaching at both the undergraduate and graduate levels. Applicant should have a Ph.D. in computer engineering or a closely related discipline. Visit the Department website at <http://www.ece.sunysb.edu> for detailed information on our research activities. The Department is associated with N.Y. Sensor CAT.

**For a full position description and/or application procedures, visit [www.stonybrook.edu/jobs](http://www.stonybrook.edu/jobs) (Job Reference #: F-7053-11-12). To apply, submit (in one PDF document) a State employment application, a detailed resume, statement of research and teaching interests, and copies of three publications at: [faculty\\_search@ece.sunysb.edu](mailto:faculty_search@ece.sunysb.edu)**

**Alternatively, submit materials listed above to:** Chair of Faculty Recruiting Committee, Department of Electrical and Computer Engineering, Light Engineering Building, Room 273, Stony Brook University, Stony Brook, NY 11794-2350

Review of applications will begin on February 1, 2012, and will continue until the position is filled.

Stony Brook University/SUNY is an equal opportunity, affirmative action employer.

