

IEEE

# potentials

THE MAGAZINE FOR HIGH-TECH INNOVATORS

May/June 2016, Vol. 35 No. 3

## The Pick of the Litter



### In this issue

- Universal internship
- New career transition
- Industry consortia
- Tackling technical research

 IEEE

# IEEE potentials

THE MAGAZINE FOR HIGH-TECH INNOVATORS

May/June 2016  
Vol. 35 No. 3

## THEME: CAREERS AND GRADUATE EDUCATION

- 8 **Are tests a measure of memorization or knowledge?**  
Raymond E. Floyd and Richard H. Spencer
- 10 **My Universal internship (say “yes”)**  
Marc Bradman
- 12 **How to revise and resubmit a journal paper**  
Donald Wunsch
- 15 **Transitioning to a new career**  
Kim W. Tracy
- 18 **Research tips for first-year Ph.D. students**  
Mahdi Nikdast
- 21 **On being a petroleum engineer**  
Astrid Northrup
- 23 **Industry consortia: A source for education and research**  
Sharad Sinha
- 27 **Good or bad: Which kind of manager will you be?**  
Raymond E. Floyd and Richard H. Spencer
- 29 **Tackling technical research**  
Marco Crepaldi and Danilo Demarchi
- 34 **Six ways IEEE Collabratec is vital to your professional success**  
Charmain Williams and Julie Bernicker

## FEATURES

- 36 **Data acquisition at CERN: A future challenge**  
Marcel Zeiler
- 40 **Fog computing: The cloud-IoT/IoE middleware paradigm**  
Mohammad Aazam and Eui-Nam Huh



**ON THE COVER:** Making yourself more marketable in your career and/or graduate education.

©ISTOCKPHOTO.COM/SORBETTO

## DEPARTMENTS & COLUMNS

- 3 editorial  
4 the way ahead  
5 gamesman solutions  
45 blue notes  
48 gamesman problems

**MISSION STATEMENT:** *IEEE Potentials* is the magazine dedicated to undergraduate and graduate students and young professionals. *IEEE Potentials* explores career strategies, the latest in research, and important technical developments. Through its articles, it also relates theories to practical applications, highlights technology's global impact, and generates international forums that foster the sharing of diverse ideas about the profession.



Digital Object Identifier 10.1109/MPOT.2016.2530201  
Date of publication: 6 May 2016

IEEE POTENTIALS

May/June 2016 ■ 1