



INVENTION EDUCATION: PREPARING THE NEXT GENERATION OF INNOVATORS

Special Editors

- Stephanie Couch, Ph.D., Lemelson-MIT Program, Massachusetts Institute of Technology
- Judith L. Green, Ph.D., Emeriti Faculty, University of California, Santa Barbara
- Audra Skukauskaite, Ph.D., Consultant, Academic Research Consulting

Technology and Innovation (T&I) is currently soliciting manuscripts for a special issue on invention education. Studies focused on invention education at all ages and stages of development are encouraged.

Arguably, nothing has a greater impact on society than invention. One need only imagine life without the printing press, the automobile, antibiotics, or the computer to realize the ways in which invention impacts our lives in ways great and small.

Despite the primacy of invention, overt efforts to examine how to support the development of young inventors is relatively new. We are quickly coming to understand the importance of these efforts, as they serve to both cultivate the problem-solving skills, creativity, and analytical thinking of students and produce the innovators we will need to resolve great societal challenges in areas as diverse as medicine, energy, and infrastructure.

Simply put, without robust invention education efforts, we will not be able to meet the challenges facing us as a society. For this reason, *T&I* is soliciting manuscripts from a broad range of perspectives and disciplines on invention education, including, but not limited to, the following topics:

- Descriptions and evaluations of innovative courses and programs for teaching invention to students in K-12, university, and beyond
- Case studies of ways of reconfiguring schools to support invention education
- Cross-cultural studies examining what supports and/or constrains efforts to increase participation in invention by under-represented groups
- Descriptions and evaluations of opportunities for professional development for enhancing educators' capacity to teach about inventing and innovation
- Empirical studies focused on technologies for invention education
- Investigations into the growth and development of partnerships between K-12 educators, informal educators and high education entities and ways in which such partnerships support learning opportunities that develop ways of thinking and working as inventors
- Theoretical considerations of the processes and mechanisms that are important for invention education
- Investigations into the role of mentorship in cultivating future inventors

Initial manuscripts should be submitted by August 1, 2018. Instructions for authors, including journal policies, manuscript formatting information, and author forms, can be found at academyofinventors.org/ti/resources.asp

T&I is published by the National Academy of Inventors and presents information encompassing the entire field of applied sciences, with a focus on transformative technology and academic innovation, and welcomes manuscripts that meet the general criteria of significance and scientific excellence. We publish original articles in basic and applied research, critical reviews, surveys, opinions, commentaries, essays, and patent and book reviews of interest to our readers.