



Here are a few links to professional development resources for students, postdocs, and working professionals in science, engineering, and technology.

Online Technical Writing Guides

- ACS: [Citation Style](#) (3rd ed.)
- CSE: [Scientific Style and Format](#) (8th ed.)
- IEEE: [How to Write for Technical Periodicals and Conferences](#)
- IEEE: [IEEE Citation Reference Guide](#)

Online Technical Dictionaries, Tools, and Explanations

- [Acronym Finder](#) (world's largest dictionary of acronyms)
- [Engineering ToolBox](#) (engineering tools, info, and resources)
- [HowStuffWorks: Science](#) (educational info and explanations)
- [HowStuffWorks: Technology](#) (educational info and explanations)
- [Online Statistical Calculators](#) (free calculators for sampling and quality control)
- [Webopedia](#) (information technology terms)
- [WhatIs.com](#) (technical dictionary for IT and related fields)

Online Lectures and Training in Technical Fields

- [Academic Earth](#) (free online courses)
- [Alison](#) (free online courses)
- [edX](#) (free online courses from top universities)
- [Engineering for Change](#) (free online webinars and publications)
- [Future Learn](#) (free online courses, primarily from the UK, with payment required for certification)
- [Harvard Open Learning](#) (free online courses from Harvard)
- [Khan Academy](#) (free online instructional videos and exercises for math and other subjects)
- [MIT Open Courseware](#) (free online courses)
- [TED Talks](#) (free online talks)
- [Tutorials Point](#) (free computer programming tutorials and more)
- [WhyDoMath](#) (free math and computational analysis training)

Online Technical Publication Hubs

- [ASCE Library](#) (civil engineering publications)
- [Elsevier](#) (publisher of books and journals in most major fields)
- [Find White Papers](#) (database of whitepapers on technology and technical services)
- [Nature](#) (publisher of journals in the natural, applied, and life sciences)
- [Research Gate](#) (database of researchers and their publications)
- [Science Direct](#) (database of peer-reviewed journals, articles, book chapters, and open access content)
- [Springer](#) (publisher of books and journals in most major fields)



Digital Media Sites and Major Publications for Scientific or Technical News

- [Arch Daily](#) (architecture news)
- [Ars Technica](#) (news for technologists and IT professionals)
- [The Economist: Science and Technology](#)
- [MIT Technology Review](#) (online magazine, reports, etc.)
- [New Scientist](#) (online and print magazine)
- [Popular Science](#) (online and print magazine)
- [Science](#) (prestigious scientific research news)
- [Science Daily](#) (latest science news)
- [Science News](#) (recent science news)
- [Scientific American](#) (online and print magazine)
- [TechCrunch](#) (profiles startups, new Internet products, and breaking tech news)

Major Research Centers, Foundations, and Nonprofits

- [National Aeronautics and Space Administration](#) (NASA)
- [National Center for Atmospheric Research](#) (NCAR)
- [National Geographic](#): Global nonprofit committed to exploring and protecting our planet.
- [National Science Foundation](#) (NSF)

Significant Professional Societies

- [AAAS](#): An international non-profit dedicated to advancing science for the benefit of all people.
- [APS](#): A non-profit membership organization working to advance and diffuse the knowledge of physics through its outstanding research journals, scientific meetings, and education, outreach, advocacy, and international activities.
- [ASME](#): Promotes the art, science & practice of multidisciplinary engineering & allied sciences around the globe.
- [IEEE](#): The world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.
- [Union of Concerned Scientists](#): Science for a healthy planet and a safer world

Excellent Sites for English Language Improvement

- [Vocabulary.com](#)

Note: This professional development resource was created by Thomas Orr and the following International Research Interns: Jean Balingit, Daiki Shigematsu, Vikram Chhipa, Debri Hasian Harianja, Keisuke Kubo, Arisa Nakao, Yuta Irikawa, and Koji Hirakawa.