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## STEM Professionals Share Resources for Teachers

Many sites include career information

### Aviation, Aeronautical, and Avionics Engineers:

- ♣ [Aerospace Industries Association: Team America Rocketry Challenge](#)
- ♣ [Aircraft Electronics Association](#) – most pages require sign-in
- ♣ [AHS International - The Vertical Flight Society](#)
  - [Elementary; Secondary; College Design Competition](#)
- ♣ [American Institute of Aeronautics and Astronautics \(AIAA\)](#)
  - [Resources](#) for Educators; Students; Parents
- ♣ [Association for Unmanned Vehicle Systems International](#)
- ♣ [Experimental Aircraft Association](#) – publications rather than curriculum
- ♣ NASA – National Aeronautics and Space Administration
  - [NASA Education](#)
- ♣ [Society of Flight Test Engineers](#) – technical papers

### Automotive and Transportation Engineers:

- ♣ [Society of Automotive Engineers](#)
  - K-12 Educators — [A World in Motion](#)
    - ♣ For some \$, [here's](#) a DVD on 3D printing in the automotive industry.
  - High School and College Students — [scholarships and more!](#)
  - Heavy technical content gathered [here](#).
- ♣ [Institute of Transportation Engineers](#) – publications, technical papers

### Civil Engineers:

- ♣ [American Society of Civil Engineers: Pre-college Outreach](#)
  - [Virtual bridge design contest](#) – download free software
  - [ASCEville](#) – games and activities for grades 3 - 7

### Electrical and Electronic Engineers:

- ♣ [IEEE](#) – "The World's Largest Professional Association dedicated to advancing technology for the benefit of humanity" – [Pre-university education resources](#)
  - [TryNano](#) – nanoscience and nanotechnology
  - [TryEngineering](#) – find your major, lesson plans, games, articles – [teacher quickstart](#)
  - [TryComputing](#) – [students](#) – [teachers](#) – [counselors](#) - [parents](#)
  - large searchable digital library of technical papers



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### Engineering Educators:

- ♣ [ASEE](#) – American Society for Engineering Education
  - [Engineering Go For It](#) — [teachers](#) resources, lessons, activities
  - [K-12 teachers of engineering professional development resources](#)

### Material Scientists and Chemical Engineers:

- ♣ IEEE [TryNano](#) – nanoscience and nanotechnology
- ♣ [NISEnet](#) – Nano (and now STEM in general) keyed to informal environments
- ♣ [Nano.gov](#) – compendium of resource links (some free, some not) for Nanoscience

### Mechanical Engineers:

- ♣ [American Society of Mechanical Engineers:](#)
  - [Bioengineering, Power & Energy, Mechanical career info](#)

### Professional, Research, and Government Engineers:

- ♣ NAE – National Academies of Engineering
  - [Greatest Engineering Achievements of the 20<sup>th</sup> Century](#)
  - [EngineerGirl](#) – middle school girls
  - [Engineer Your Life](#) – high school girls
- ♣ National Engineers Week (3<sup>rd</sup> week in February) coalition
  - [Discover-e](#)(ngineering) – resources, contests, programs
- ♣ NASA – National Aeronautics and Space Administration
  - [NASA Education](#)

### Software and Computer Engineers:

- ♣ ACM – Association for Computing Machinery
  - Gotta Have IT – (with NCWIT) [classroom collateral especially inclusive of girls](#)
  - [\(National\) Computer Science Teachers Resources](#)
- ♣ [IEEE](#) – "The World's Largest Professional Association dedicated to advancing technology for the benefit of humanity" – [Pre-university education resources](#)
  - [TryComputing](#) – [students](#) – [teachers](#) – [counselors](#) - [parents](#)
- ♣ [NCWIT](#) -- National Center for Women in Information Technology
  - Gotta Have IT – (with ACM) [classroom collateral cards especially inclusive of girls](#)
  - Resource search (not limited to K12)
    - ♣ [eTextiles](#)
    - ♣ [AgentCubes Game Design](#)
    - ♣ [Pair Programming](#)
  - [Aspirations in Computing Award for high school women](#)