

Grand Challenges

The Wheel Was Once an Engineering Marvel

But when ancient engineers perfected it, they moved on to the next problem. There's always another challenge – and always another engineering solution to resolve it.

To help engineers focus on our planet's most pressing engineering and technology issues, the National Academy of Engineering developed **The Grand Challenges For Engineering**. As today's engineers tackle these 14 initiatives related to **health, security, sustainability, and the joy of living**, they will improve life on Earth and help people thrive.

Make Solar Energy Affordable



Fusion: Harness Star Power on Earth



Develop Technologies to Capture Carbon



Manage Agriculture's Impact



Unlock the Secrets of the Human Brain



Engineer Better Medicines



Restore and Improve Urban Infrastructure



Provide Access to Clean Water



Advance Personalized Learning



Secure Cyberspace



Enhance Virtual Reality



Engineer the Tools of Scientific Discovery



Manage Global Health Information Networks



Prevent Nuclear Terror

