

Problem #	Focus area	Why of interest to you
1	Climate change	Personal interest in CC, large implications for EE, interesting engineering, large potential impact, well documented, supporting research on state-of-the-art available etc.
2	Accessibility	Interested as some friends have accessibility needs, I have experience in the mechanical side, but it also applies to CSE and EE. Can very directly help people.
3	Security	Personal interest in cyber security, large implications for CSE, big changes coming with quantum computing breaking our current methods of security

**Basic characteristics of
unsatisfactory state &
symptoms**

**Who is the user?; are there other
potential stakeholders?**

Lack of clean energy
sources causes health and
environmental issues. Issues
of poverty, income
inequality, accessibility
sustain this problem.

Everyone on Earth is affected, notably
related are anyone who uses energy.
Possible stakeholders: policymakers,
local governments, donors, NGOs,
engineers/designers + others.

Many situations aren't
accessible for some, from
hardware to software,
people with accessibility
limitations can have many
issues in day to day life.

Those with some disability or other
accessibility need. Possible stakeholders
include companies, open source
groups, engineers,

Currently, not much, but on
the near horizon is all the
security we use being quite
easily bypasses

Everyone who uses the internet or
anything that touches the internet.
Stakeholders include policymakers and
governments, corporations, engineers,

Is there evidence of this being an important/impactful problem?

Are there opportunities to innovate in this problem area?

Yes, from project drawdown importance is clearly documented

Yes, there are numerous opportunities to help our environment in a variety of ways

Yes, I've seen firsthand how engineering solutions can directly improve people's lives

Yes, this aspect of engineering often goes without mention, and it's often just a bit of extra thought to easily make large change.

Yes, we've seen what can happen with even minor security breaches of things like oil pipelines, just imagine if that could happen to anything at any time

Yes, there's a large need for new security measures that are safe from quantum attacks

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