

Integrating a Gender Perspective in Research

▪ Why Does It Matter?

Biological sex and gender identity can influence research outcomes in ways that are sometimes obvious (e.g., clinical studies) and sometimes less direct (e.g., data bias in AI models).

Examples Where Gender Perspective is Straightforward

- ✓ **Biomedical Research:** Differences in drug metabolism between men and women.
- ✓ **AI & Data Science:** Gender bias in training datasets leading to unfair algorithmic decisions.

Examples Where Gender Perspective is Less Obvious

- ✓ **Theoretical Physics & Mathematics:** While equations are gender-neutral, the demographics of who enters these fields, who receives recognition, and how research is funded may be influenced by gender-related factors.
- ✓ **Nanotoxicology & Environmental Impact:** Investigating how nanomaterial exposure affects different sexes differently and whether exposure pathways differ based on gender roles (e.g., in workplaces, cosmetics, or household products).
- ✓ **Ecology & Environmental Science:** Studies on climate change impact might need to consider how gender roles influence access to resources and resilience strategies.
- ✓ **Wearable & Smart Nanomaterials:** Ensuring nanotechnology-enabled materials are inclusive in design for both male and female users, particularly in areas like biomedical wearables and personal protective equipment (PPE).

▪ How you Integrate this Perspective in your research?

Support Resources:

- Gender dimension in research projects (European Commission). [Link](#).
- Incorporating the Sex and gender Perspective in Research content: A toolkit (AQuAS). [Link](#)
- Tool to incorporate the sex and gender perspective into research content (AQuAS). [Link](#)