

Next Generation Technology and Talent Driven by Environmental Sustainability



PhD fellowships for students to engage in doctoral and industry research on topics including Greening the Digital Economy, Transportation, and Decarbonizing Steel & Electricity. Students will receive training to innovate for sustainability in commerce, systematically incorporate sustainability, and collaborate effectively with interdisciplinary teams. NSF funded trainees will receive a \$34,000/year stipend, tuition waiver, and other benefits. NSF funded trainees must be U.S. citizens, nationals, or legal permanent residents



Greening the Digital Economy

Methodologies and frameworks such that technological innovation in hardware, firmware, and software will be *central to improving* the environmental sustainability of a particular system.



Transportation

Framework and modeling tools that integrate techno-economic analysis and supply chain risk evaluation into *environmental assessments of emerging technologies* such as electrification, shared mobility, and e-commerce.



Decarbonizing Steel and Electricity

Developing lifecycle assessment methods for considering the consequential impacts of *energy system transitions* to producing large quantities of low-carbon fuels and materials, and methods for *quantifying the suitability* of new, lower-intensity materials.



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