

KHANDE-JAE FISHER

MATERIALS SCIENCE ENGINEER | SUSTAINABILITY PROFESSIONAL | PROJECT MANAGER | ENERGY & ESG ENTHUSIAST

CONTACT

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PROFILE

Passionate and driven Materials Engineer with a focus on sustainable energy systems, renewable technologies, and project planning. Experienced in energy operations, community-driven energy solutions, and interdisciplinary sustainability projects. Adept at data analysis, research, and stakeholder collaboration to drive sustainability and decarbonization initiatives. Strong background in project management, with experience in global energy startups, university-led energy efficiency projects, and consulting for cleantech businesses. Committed to advancing the energy transition, developing innovative solutions for resilience, and fostering equitable and wealth-building economies.

CORE COMPETENCIES & TECHNICAL SKILLS

- Sustainability & Energy Systems: Renewable Energy, Energy Efficiency, Decarbonization Strategies
- Project & Stakeholder Management: Cross-functional Collaboration, Community Engagement, Consulting
- Data & Research Analysis: Life Cycle Assessment (LCA), GHG Accounting, Python, SQL, GIS
- ESG & Policy Frameworks: LEED, WELL, Net Zero Energy (NZE), Carbon Neutral Strategies
- Technical & Engineering: Thermodynamics, Materials Science, Circular Economy

EDUCATION

COLUMBIA UNIVERSITY (4.0/4.0 SCALE)

*Sep 2024 - Dec 2025 (*Anticipated)*

• *Master of Science in Sustainability Science, School of Professional Studies*

• *Relevant Courses:* GHG Emissions: Measuring and Minimizing the Carbon Footprint; Managing Diverse Stakeholder interest in response to Climate Change

STANFORD UNIVERSITY (3.7/4.0 SCALE)

Sep 2018- July 2022

• *Major: Materials Science and Engineering - Energy Focus, Minor: East Asian Studies (Korea Subplan)*

• *Relevant Courses:* Thermodynamic Evaluation of Green Energy Technologies; Solar Cells, Fuel Cells and Batteries: Materials for Energy Solution

• *Publication:* Chen, H., Benedek, P., Fisher, K., Wood, V., Cui, Yi. (2020) "Self-Assembled Nano-Materials for Electrochemical Energy Storage"

EXPERIENCE

GLOBAL PROJECT MANAGER, *Teelabs Smart Business Center*

Sep 2023- June 2024

- Translated 200+ business documents between Korean and English for start-ups in cleantech, energy, pharmaceuticals, healthcare, and other industries expanding into global markets.
- Hosted and emceed international conferences in Korean and English, including A-STREAM 2023, facilitating discussions between entrepreneurs, investors, and industry leaders.
- Provided pitch coaching and strategic mentorship to 100+ Korean start-ups, helping them refine their market entry strategies for North America and the Caribbean.
- Acted as a liaison and translator at SLUSH and other start-up conferences, assisting founders in communicating with global investors and stakeholders.
- Delivered market insights on advertising and marketing in the American and Caribbean markets for start-ups seeking expansion, ensuring cultural and strategic alignment.

ENERGY OPERATIONS INTERN, *Stanford University*

June 2022- Aug 2022

- Analyzed and optimized Stanford's district heating system, identifying energy losses and proposing efficiency improvements.
- Conducted data analysis and research on steam usage and energy efficiency, cross-checking steam flow data to minimize energy waste and enhance system performance.
- Assisted in the database migration process, collaborating with the Chief Energy Engineer to improve data accuracy and accessibility for energy system monitoring and reporting.
- Contributed to the development of energy efficiency programs, supporting senior team members in implementing sustainability initiatives.
- Performed special projects and research related to energy operations and system optimization..

COMMUNITY ENERGY DESIGN INTERN, *Shake Energy Collaborative*

June 2022- Aug 2022

- Developed and amplified social media content to increase engagement and awareness of community-driven renewable energy initiatives.
- Facilitated workshops with community-led energy cooperatives, guiding discussions on equitable and sustainable energy infrastructure development.
- Collaborated with the CEO and local stakeholders to apply systems-thinking tools, ensuring that community expertise and needs were integrated into renewable energy accessibility strategies.
- Researched and proposed innovative solutions for improving energy equity and accessibility, aligning projects with community priorities.

MATSCI RESEARCH EXPERIENCE FOR UNDERGRADUATES *Stanford University*

June 2020- Aug 2020

- Conducted a collaborative literature review on Self-Assembled Nanomaterials for Energy Storage, exploring their potential applications in next-generation energy solutions.
- Worked under the Cui Research Group, analyzing scientific findings to support research on advanced materials for electrochemical energy storage.
- Developed technical research and communication skills, synthesizing complex data into accessible reports and presentations.
- Contributed to an academic publication, demonstrating expertise in materials science and energy storage technologies.