THE STATION1 FRONTIERS FELLOWSHIP

A Transformative Education, Research, and Internship Program Focused on Social Impact

Are you a bold thinker and an aspiring scientist, engineer, or technologist who is passionate about creating a more equitable, creative, prosperous, and sustainable world?

Station1 is looking for you!

Apply to be a Station1 Fellow!

www.station1.org/sff
We invite you to apply to The Station1 Frontiers Fellowship (SFF), a prestigious, fully-funded ten-week summer experience for undergraduate students that involves socially-directed science and technology education, research, and innovation. Based upon a foundation of inclusion and equity, this program integrates science, technology, engineering, and math (STEM) with humanistic fields in order to interrogate, understand, and shape technologically-driven societal impact towards more equitable, ethical, and sustainable outcomes. Unique in the nation and the world, the SFF includes an exciting research internship, a cross-interdisciplinary shared curriculum on socially-directed science and technology, and personal and professional advancement activities.

SFF 2021 will be in a fully virtual format and students will participate remotely in all program activities from their city of residence.

AS A STATION1 FELLOW YOU WILL:

- Receive a competitive living expenses stipend and fully-funded instructional costs
- Gain authentic experience through an internship in a leading science and technology company or university research laboratory
- Participate in exciting, state-of-the-art, team-based research and development projects in science and technology (270 hours)
- Engage with a shared curriculum focused on socially-directed science and technology which draws together critical perspectives on history, social studies of science and technology, equity and inclusion, computation in a social context, social change and innovation, sustainability, and ethical reasoning (100 hours)
- Interact with cross-disciplinary guest instructors and mentors from a diversity of fields
- Gain personal and professional experience through both the internship and the formal curriculum that focuses on areas such as intercultural knowledge, inclusive leadership and collaboration, scientific and technical communication, and more
- Receive information and guidance on academic and career pathways
- As program alumni, become part of a network of exceptional professionals in the Station1 community beyond completion of the program.
BE INSPIRED AND BUILD YOUR FUTURE
The Station1 Frontiers Fellowship involves interdisciplinary, team-based science and technology research and development projects that are fundamentally linked to humanistic concepts and societal concerns. Station1 works closely with accepted applicants to match them to projects in their areas of interest. Example areas of focus for Station1 include civic technologies, biotechnologies, digital automation and advanced manufacturing, space technologies, and materials technologies.

CAREER OPPORTUNITIES WITH AN AMAZING INTERNSHIP
Station1 Fellows are provided paid internships with leading companies and research laboratories. Internships will give you the preparation you need to be highly competitive for employment and future careers in emerging STEM fields, as well as for continuing on to graduate education, if you choose to pursue this career path.

PURSUING IMPACT THROUGH SOCIALLY-DIRECTED SCIENCE AND TECHNOLOGY
Based upon a foundation of inclusion and equity, this model integrates STEM with humanistic fields in order to interrogate, understand, and shape technologically-driven societal impact towards more equitable, ethical, and sustainable outcomes. We live in an era rife with social inequities and planetary perils, as the collective impact of humans threatens life on earth as we know it, radically transforming our societies and ecosystems. While science and technology has contributed enormous benefits to humanity, simultaneously it has also been entangled with, and contributed to these formidable challenges. Station1 is addressing these key issues through an emerging and evolving education and research model based on socially-directed science and technology.

SUPPORTIVE AND CARING MENTORS
As a Station1 Fellow, you will receive more than an internship advisor, you will gain a diverse team of exceptional and caring mentors. From the Station1 staff, to the shared curriculum instructors, to the project mentors, the Station1 team supports your individual academic, professional, and personal growth and will foster an inclusive and supportive learning environment. As a Station1 Fellow, you receive much more than technical and academic guidance and learning. Mentors get to know you personally and serve as a resource for career advice and guidance, as well as enable your professional and personal advancement.
ELIGIBILITY CRITERIA

Applicants must:

• Be currently enrolled in an undergraduate degree-granting program at an accredited post-secondary institution and in good academic standing
• Have a genuine interest in science and technology applied to social impact
• Be available to participate full-time in hours compatible with program activity time zones for the entire duration of the program (tentative dates: June 7th - August 15th, 2021)
• Have no other employment (full-time or part-time) or formal (enrolled) classes for the full duration of the program

African American, Black, Hispanic, Native American, Native Hawaiian & Pacific Islander, first-generation to college students, students from low socioeconomic backgrounds, students enrolled at minority-serving institutions, teaching institutions, and community colleges are strongly encouraged to apply.

Station1 also strongly encourages students who have not had the opportunity to participate in a previous research, internship, or significant project-based experience to apply.

Station1 admits students of any race, color, national origin, ethnic origin, sexual orientation, gender identification or veteran or disability status to all the rights, privileges, programs, and activities generally accorded or made available to students at the school. It doesn’t discriminate on the basis of race, color, national origin, ethnic origin, sexual orientation, gender identification or veteran or disability status in administration of its educational policies, admission policies, scholarship and loan programs, and athletic and other school-administered programs.

JOIN THE EXCITING STATION1 JOURNEY!

Target Deadline: January 15th, 2021 11:59 PM EST

The application can be found here: https://www.station1.org/sff

Questions and inquiries, email: sff@station1.org

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STATION1 LEADERSHIP

Christine Ortiz, Ph.D. (she/her/hers) is the founder of Station1, a scientist, engineer, social entrepreneur, and professor. She is the tenured and chaired professor of engineering and former dean of graduate education at MIT with over 25 years of experience in higher education. Ortiz has a Ph.D. from Cornell University and a B.S. from Rensselaer Polytechnic Institute, all in Materials Science and Engineering.

Ellan Spero, Ph.D. (she/her/hers) is a co-founder and Chief Curriculum of Station1 and a historian of science and technology with a research focus on infrastructure and narratives of progress. Spero has a Ph.D. from MIT in History, Anthropology, Science, Technology, and Society, and a B.S. and M.S. from Cornell University in Fiber Science.

Pauline Charbogne, Ph.D. (she/her/hers) is the Director of Programs at Station1. Charbogne has a Ph.D. in Neuroscience and a M.S. in Pharmacology from Universite de Strasbourg, and a B.S in Biochemistry from Universite de Lorraine.

Francisco Martin-Martinez Ph.D. (he/him/his) is a lead instructor at Station1 and is a Research Affiliate at MIT. Martin-Martinez is currently a lecturer at Swansea University. Martin-Martinez holds a B.S., M.S., and Ph.D. in chemistry, chemical engineering, and computational chemistry from Universidad de Granada.

Jingjie Yeo, Ph.D. (he/him/his) is a lead instructor at Station1 and Assistant Professor at Cornell University College of Engineering. Yeo holds a Ph.D. in Computational Materials Science and Engineering and a B.S. in Aerospace Engineering both from Nanyang Technological University.

George Whitfield, Ph.D. (he/him/his) is an entrepreneur in residence and corporate mentor in at Station1 and Founder and CEO of the startup company FindOurView. Whitfield has a B.S. in electrical engineering and computer science from MIT, and an M.S. and Ph.D. in materials science and engineering from MIT.