Microvascular Therapeutics

FOCUSED ULTRASOUND FOUNDATION

MVT & FOCUSED ULTRASOUND FOUNDATION PARTNERSHIP INTERNSHIP 2026

Microvascular Therapeutics (MVT) is a biotechnology company specializing in the development of microbubble and nanotechnology products that will unlock the diagnostic and therapeutic potential of ultrasound. MVT has invented a new ultrasound contrast agent, CardiSon (MVT-100), which promises to be the best combination of image quality, storage/handling, and side-effect profile of any ultrasound contrast agent on the market. CardiSon is being developed via an accelerated pathway, has finished a successful Phase 2 clinical testing for echocardiography and is now entering a Phase 3 trial. Our projected approval date is Q4 2027. CardiSon is a near-term revenue opportunity, and a platform technology, that positions MVT to propel a pipeline of disruptive diagnostic and therapeutic products into the market that will have a broad impact across a spectrum of medicine, with massive market potential.

This internship is in partnership with the Focused Ultrasound Foundation (FUSF), a medical research, education, and patient advocacy organization based in Charlottesville, Virginia.

Description of the project:

CardiSon is a product based on the well-known, Perflutren Lipid Microspheres (aka Definity®). To activate the bubbles for their use, the vial of solution requires activation using the "VialMix". The project is to further engineer the new shaker "CardiMix" and characterize the parameters for the activation of CardiSon using the shaker. The second phase of the project is to further define the storage conditions of activated product using analytical techniques.

Responsibilities:

You will be performing a set of experiments and measure the specifications of the product using several instrumentations such as GC/Raman, HPLC, DLS etc. The measurement of the backscatter coefficient and Mechanical Index (MI) of the generated bubbles will also be a determined parameter.

The Intern will report to company mentors: Dr Joel Lusk and Dr. Emmanuelle Meuillet. A final report will be submitted to the Focused Ultrasound Foundation (FUSF). The Intern will be presenting his/her results via Zoom.

Required and desired qualifications/experience:

- A biomedical engineer background with some experience in biochemistry and/or biophysics.
- Some analytical background and/or expertise will be considered a plus.

Benefits:

Competitive hourly rate ($17-20 per hour), mentorship from experienced engineers, exposure to real-world engineering projects, and opportunities to learn new skills and technologies. The internship position is in-person at our Tucson, AZ site.

Application Instructions:
Please submit a statement of interest and resume or CV to: industryinternship@fusfoundation.org
Subject line: *Summer 2026 Internship Application –Microvascular Therapeutics*
Application deadline: April 21, 2026