

11-TTAG-011

Company Name	SFC Fluidics
NAICS	334516
Address	535 W. Research Center BLVD Suite 135
City	Fayetteville
State	AR
ZIP	72701
County	Washington
Number of Employees	18
Year Established	2002
Company Web Site	http://www.sfc-fluidics.com
Contact Person	Calvin Goforth
Title	President
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Secondary Contact Name	Mark Kidd
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Secondary Contact Email	mark.kidd@sfc-fluidics.com
Resource Provider	SFC-Fluidics, LLC
RP Address	535 W. Research Center BLVD Suite 135
RP City	Fayetteville
RP State	AR
RP ZIP	72701
RP County	Washington

RP Project Contact	Mark Kidd
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Project Area	Advanced Materials and Manufacturing Systems - 4 - Other Advanced Materials and Manufacturing Systems (Please Provide short description in box provided below)
Project Area Brief Description	Shape Variations in the Development of Miniature Micropumps
Federal Agency	National Science Foundation
Project Title	11-TTAG-011 - Shape Variations in the Development of Miniature Micropumps
Competitive Challenges	SFC Fluidics® LLC is focused on the development of unique microfluidic technologies that enable ever more powerful miniaturized analytical tools, laboratories-on-a-chip, clinical diagnostics, and life science research instruments. SFC Fluidics' patented and patent pending microfluidic pumping technologies provide controlled, reliable fluid flow and liquid delivery in the challenging nanoliter-per-minute to microliter-per-minute flow range. Precise control of such minuscule quantities and flow rates is essential for the practical realization of miniaturized instruments like point-of-care diagnostic devices, remote monitoring systems for chemical/bio-defense, and medical dosing systems.
Specific Problem	This is a TECP Supplement- an extension of the Phase II.
Solution	SFC Fluidics (SFC) proposes to develop a product line of miniature pumping systems for the controlled delivery of fluids in the nL/min to µL/min flow rate range. Based on SFC's patentpending ePump technology, this line of micropump systems will provide pulse-free flow in this challenging flow rate regime.
Implementation Plan	These TTAG funds and this supplement opportunity is intended to provide funding for additional research that goes beyond the Phase II project's objectives to meet the technical specifications or additional proof-of-concept requirements of the potential commercialization partner. It is anticipated that the additional research will enhance the commercial potential of the technology and lead to partnerships with industrial partners and venture and

	angel investors.
Maintenance Plan	The specific target for this work plan is the development of a product line of ePumps beginning with two initial pump designs: a controlled-flow/volume pumping system for microfluidic/microdispensing applications and an on-board dosing system for animal studies.
Step 1	Preparatory Work -Define Research Objectives - Outline Proposal - Discussions with funding agencies - Literature search and review - Identification of potential users and partners
Step 1 Time	20.00
Step 1 Budget	\$1,000
Step 2	Proposal Content Development - Technology Description and significance - Work plan development - Budget development - Commercialization Plan
Step 2 Time	50.00
Step 2 Budget	\$2,500
Step 3	Final Proposal Preparation - Proposal Review - Formatting and Proofreading - Letters of support, consultant letters - Agency Forms - Cover letters, copies, mailing
Step 3 Time	30.00
Step 3 Budget	\$1,500
Increased Sales	\$0
Retained Sales	\$0
CS Inventory	\$0
CS Labor	\$0
CS Materials	\$0
CS Other	\$0
II Plant	\$0
II IS	\$0
II Workforce	\$0
II Research	\$0
II Other	\$0

AUI	\$0
SOI	\$0
Job Retention	0
Job Creation	0
YN 90Days	No
YN Affiliation	Yes
YN Agreement	Yes
YN Total Project Price	Yes
Explain Total Project Price	
YN Cash Match Agreement	Yes
Copied	No
TTAG ID	11-TTAG-011
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Include in Batch	Yes
Batch Number	NA
Application Status	Pending
Organization	ASTA
BatchTest	Processed
Batch Date	
Set Batch Number	
Lvl4	No
Application Description	6-Advanced Materials & Production

SBIR-STTR

Yes