



U.S. ARMY
RDECOM

Small Business Innovation Research



open
campus

**S&T Campaign: Mechanisms
Small Business Innovation
Research (SBIR)**

Fran Rush 301-394-4961
SBIR@arl.army.mil

SBIR

The Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR) programs are key bridges that allow the U.S. Army research, development, and engineering community and the small businesses to work together and mutually benefit from the programs to equip Soldiers.

- ▶ **Phase I** is a feasibility study that determines the scientific, technical, and commercial merit and feasibility of selected concepts. Phase I projects are competitively selected from proposals submitted against solicitation topics seeking specific solutions to stated government needs.
- ▶ **Phase II** represents a major R&D effort, culminating in a well-defined deliverable prototype (i.e., a technology, product, or service).
- ▶ **Phase III** expects the small business or research institute to obtain funding from the private sector and/or non-SBIR/STTR government sources to develop the prototype into a viable product or service for sale in government or private sector markets.

The goals of the SBIR and STTR Programs are to:

1. Stimulate technological innovation;
2. Use small business to meet federal R&D needs;
3. Foster and encourage participation in technological innovation; by socially and economically disadvantaged small business concerns (SBCs), and by SBCs that are 51 percent owned and controlled by women.
4. Increase private sector commercialization of innovations derived from federal R&D thereby increasing competition, productivity, and economic growth.

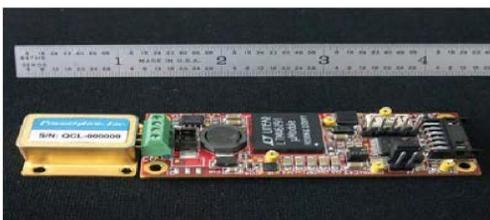
	SBIR	STTR
Phase I	6 Months; \$100,000 max	6 Months; \$150,000 max
Phase I (Option)	4 Month option (government's discretion); \$50,000 max, to fund Interim Phase II efforts	No option
Phase II	2 Years; \$1,000,000 max	2 Years; \$1,000,000 max
Phase III	Unlimited time; non-SBIR funding	Unlimited time; non-STTR funding

FUEL PROCESSOR: RENEWABLE HYDROGEN FOR PORTABLE POWER



SUCCESS STORIES

FIRST MULTI-WATT QUANTUM CASCADE LASER



Miniaturization: Battery Operated, 3 W Output
Collimated Beam; 5 mm dia (not focused)



TECHNOLOGY FOR THE DETECTION OF CHEMICALS IN EXTREME ENVIRONMENTAL CONDITIONS



PORTABLE MINI-GAS CHROMATOGRAPH



<https://www.armysbir.army.mil/>