



Website: <https://smallbusiness.ornl.gov>

Fueling Pellet Injection System (FPIS) Extruder Assembly Expression of Interest

Category: Fabrication and Machining Services

Small Business Set-Aside: No

Estimated Value: \$2M

NAICS Code: 541330

Expected Issue Date: 7/31/2026

Expected Award Date: 9/30/2026

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Long Description

US ITER is seeking Expressions of Interest (EOIs) from qualified firms for the design and prototyping of the Fueling Pellet Injection System (FPIS) extruder assembly. Each extruder assembly contains two pellet injectors, each with dedicated fuel recirculation loops. Each pellet injector requires a pre-cooler and liquefier. The extruder assembly includes a guard vacuum chamber to house the two pellet injectors (see Figure 1). Each pellet injector will include the capability to produce two sizes of pellets (small or large). Finished hardware and associated documentation will be delivered to the ITER site in Cadarache, France. Please refer to the attached "Pellet Injection Extruder Assembly Summary" document for additional details.

This EOI is issued for information and planning purposes only. It does not constitute a solicitation, Request for Proposal (RFP), or commitment to award. Submitting an EOI is not a prerequisite for responding to any future solicitation.

Interested firms should submit:

- Company overview and relevant technical capabilities
- Points of contact for follow-up

Updated: Responses are due by 7/13/2026 at 4:00 PM.

[Pellet Injection Extruder EOI](#)