United States Department of the Interior

INTERIOR BUSINESS CENTER
Washington, DC 20240

PRE-SOLICITATION NOTICE
SOLICITATION #140D0426Q0207

The Department of the Interior (DOI), Interior Business Center (IBC), Acquisition Services Directorate, Division 3, Branch 3, is issuing this pre-solicitation notice in accordance with Revolutionary Federal Acquisition Regulation Overhaul (RFO) 5.101. The Contracting Officer for this requirement is Jesse Kunkle, email: jesse_kunkle@ibc.doi.gov.

This acquisition is not a small business set-aside and will be pursued as a sole source action under the authority of RFO 6.103-1, Only One Responsible Source, and RFO 12.201-1, Simplified Procedures for Commercial Products. The requirement will be awarded on a sole-source basis to Oxford Nanopore Technologies, Inc.

The applicable NAICS code is 334516, Analytical Laboratory Instrument Manufacturing, and the Product Service Code (PSC) is 6632, Analytical Instruments.

Place of Delivery and Installation:

CCR Genomics Core
National Cancer Institute
37 Convent Drive, MSC 4256
Bethesda, MD 20892-4256

Delivery and installation are required within four (4) to twelve (12) weeks after the date of award.

The Department of the Interior, Interior Business Center (IBC), on behalf of the National Institutes of Health (NIH), National Cancer Institute (NCI), Center for Cancer Research (CCR), intends to procure an Oxford Nanopore PromethION 2 Integrated (P2i) Long-read Sequencing Platform. The sequencing system is required to support CCR Genomics Core operations that provide long-read genomic sequencing services essential to intramural cancer research programs. The PromethION 2 Integrated platform provides advanced long-read DNA and RNA sequencing capabilities, real-time analysis, integrated GPU-accelerated basecalling, modified base detection, and full compatibility with existing ONT PromethION flow cells and validated CCR workflows.

The CCR Genomics Core requires an upgrade from its current PromethION 2 Solo (P2 Solo) instrument, which relies on external compute hardware. The P2i integrates sequencing and high-performance compute into a single platform, reducing workflow complexity, eliminating external workstation dependencies, decreasing turnaround time, and supporting high-throughput sequencing operations for structural variant analysis, epigenetic profiling, transcriptomic characterization, and de novo genome assembly research.

Oxford Nanopore Technologies is the sole manufacturer and exclusive supplier of all PromethION-class sequencing platforms. Market research conducted by the Government did not

identify any alternative sources capable of providing an integrated long-read sequencing platform compatible with CCR's existing ONT consumables, software ecosystems, and validated analytical pipelines. No mandatory Government sources or commercial suppliers were found that can meet the requirement without causing significant disruption to research operations, necessitating revalidation of workflows, or replacing current ONT laboratory infrastructure.

The Government intends to award a sole-source Firm Fixed-Price purchase order to Oxford Nanopore Technologies, Inc., for the PromethION 2 Integrated platform, including installation, calibration, warranty support, and required training.