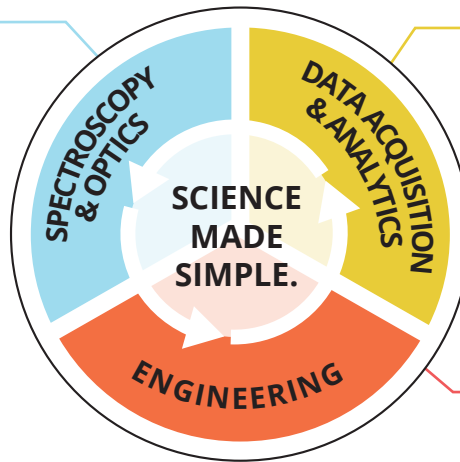


**Nikira Labs Inc.** research, development, and productization efforts are geared towards solving some of today's biggest problems ranging from a better understanding of climate change and air pollution to improving medical techniques and live cell imaging.

### Spectroscopy & Optics

We have extensive experience in laser spectroscopy and optics and are leaders in the development of cavity-enhanced absorption spectrometry, with related work in Raman and fluorescence spectroscopy. We have applied these skills to several DoD projects, including hypersonic diagnostics, submarine air monitoring, and directed energy weapons.



### Data Acquisition & Analytics

We develop custom data acquisition and analysis solutions by designing both the electronics and software necessary to capture data in many applications. Additionally, by employing sophisticated numerical methods, we can provide real-time analyses and visualizations.

### Engineering

We have expertise in Mechanical, Electrical, and Software Engineering, alongside a strong background in Mechatronics Engineering to seamlessly stitch our disciplines together.

### KEY SUCCESSES

Successfully deployed aerosol optical characterization instruments for directed energy weapons

Developing next-generation air monitoring for existing and upcoming Naval submarine fleet

Invented next-generation optical technologies for leak detection, Raman probes, and microscopy

### COMPANY DATA

**Nikira Labs Inc.** specializes in bringing cutting-edge analytical technologies to market. Our motivated, highly technical team combines optics, analytics, and engineering to create solutions with complex technologies. We have the ability to explore and analyze for alternative applications of our technology and have the expertise to navigate and crosswalk to other agencies.

#### CAPABILITIES

- Laser Spectroscopy (cavity ringdown, tunable diode laser absorption, Raman, fluorescence...)
- Rapid Prototyping (3d-printing, laser cutting...)
- CAD/CAM Design (CREO 6.0) with Fluid and Thermal Modeling (FloEFD)
- PCB Design, Fabrication, and Testing (EAGLE)
- Data Acquisition and Analysis Software (Python, Igor Pro, Origin Pro)
- Facility that include optics, detectors, lasers, vibrational isolation, and testing capability

#### SPECS

- Woman Owned Small Business (WOSB) Certified
- Co-founder is Manish Gupta, a recognized expert in the fields of spectroscopy and optics.
- Located within a HUB Zone
- Micro Business
- 2500 ft<sup>2</sup> facility in Silicon Valley
- Over 40 years of experience

#### PARTNERS



### CONTACT

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