# Facilities, Equipment, and Other Resources

This project will use facilities, equipment, and resources at the University of Nebraska at Omaha (UNO), and partner sites:

## University of Nebraska at Omaha

UNO is actively increasing its organizational capacity to prepare additional STEM professionals, including secondary STEM teachers, as evidenced by several recent developments on campus, including the elevation of UNO’s Carnegie Classification from “Master’s Large” to “Doctoral/Research” (2010), the formation of a new Fund for Undergraduate Scholarly Experiences (FUSE) supporting undergraduate students engaged in research (2011), and the creation of four named community chairs with leadership responsibilities in STEM (2010, 2011, 2013, and 2014). The project team will work within UNO’s newly approved (2019) STEM Teaching, Research, and Inquiry-based Learning (TRAIL) Center. Importantly, the STEM TRAIL Center includes the Omaha Citywide STEM Ecosystem, which partners with a large network of 76 citywide STEM Ecosystems across the country. Therefore, information gleaned from this work will be disseminated via academic publications as well as Ecosystem events (amongst others) across the country within this community of practice. UNO has invested heavily in this novel infrastructure for ongoing support in research, teaching excellence, and community engagement as part of our campus mission.

UNO has a special community relationship with the Omaha metropolitan area and Omaha Public Schools (OPS). Approximately 74% of the students are from the Omaha area and 34% of the UNO students are high school graduates of OPS. In addition, more than 60% of the OPS science teachers received their degree from UNO. As the largest school district in Nebraska, with more than 50,000 students, OPS is continually in a search and hiring mode for secondary science teachers and science curriculum specialists for its 7 high schools, 5 of which are high need schools. District wide, OPS serves a diverse population in which 68% of the students are minorities and 73% qualify for free or reduced lunch. More than 100 different languages and dialects are spoken by OPS students across this large and diverse urban school district. Importantly, the STEM TRAIL Center includes the Omaha Citywide STEM Ecosystem, which partners with a large network of Ecosystems across the country. Therefore, information gleaned from this work will be disseminated via academic publications as well as Ecosystem events in Omaha, Lincoln, and across the country within this community of practice. The UNO STEM Trail team has in place:

**1. Laboratory:** The STEM TRAIL Center is located in UNO’s Thompson Alumni Association Center with conference room space (capable of Zoom/video conference) and offices for staff (particularly the research technologist supported on this project).

**2. Clinical:** N/A; **3. Animal:** N/A

**4. Computer:** UNO’s computing infrastructure is overseen by the office of Information Technology Services (ITS). The academic computing capability centers around five computers running the UNIX operating system. Also, a full array of software is available on more than 400 workstations and microcomputers to satisfy many and varied academic pursuits. Access to student computers, including Internet and e-mail, is provided to students. Computers are electronically connected by wireless and Ethernet data communications networks. UNO is fully networked to the University of Nebraska-Lincoln, the University of Nebraska Medical Center, and the University of Nebraska at Kearney as well as to other Nebraska public and private educational institutions (K-12, Boys Town, Creighton, and other universities).

**6: Other: Major Equipment:** N/A; **Other Resources:** If needed, the project has access to The Peter Kiewit Institute of Information Science, Technology, and Engineering (PKI) at UNO. Over 20,000 square feet of laboratory space at PKI is available for research and teaching. In particular, a lab of 90 Intel Workstations with Dual Core processors and 2GB of RAM are available.

## University of INSERT PARTNERING INSTITUTION DETAILS

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