



**INSTITUTE FOR
THE ENVIRONMENT**



**INSTITUTE FOR THE ENVIRONMENT
AT THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**

GENERAL SERVICES ADMINISTRATION

Federal Supply Service



Multiple Award Schedule

Schedule:

Federal Supply Group: Professional Services

Price list current as of Modification # PS-A812 effective
March 2, 2020

Contract Number:

47QRAA18D00CA

Contract Period:

July 15, 2018 through July 14, 2023

Business Size:

Other Than Small

Contractor:

UNC Institute for Environment

<https://ie.unc.edu/research/environmental-modeling/>

Contracting Officer:

David Paul, Executive Director
Office of Sponsored Research

Address:

104 Airport Drive Suite 2200
Chapel Hill, NC 27599-1350

Phone:

(919) 966-3411

Electronic Mail:

gsaosr@unc.edu

Fax:

(919) 962-5011

**Authorized Federal
Supply Schedule
Pricelist**

On-line access to contract ordering information, terms and condition, up-to-date pricing, and the option to create an electronic delivery order are available through GSA *Advantage!*, a menu-driven database system. Visit GSA *Advantage!* at: <http://www.gsaadvantage.gov>

For more information on ordering from Federal Supply Schedule click on the FSS Schedules button at fss.gsa.gov



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The University of North Carolina at Chapel Hill

The University of North Carolina at Chapel Hill, the nation's first public university, serves North Carolina, the United States and the world through teaching, research, and public service. Founded in 1793 as the first public university in the United States, UNC is the 5th top-ranked university in the United States for federal research totaling \$701 million annually. UNC conducts more than one billion dollars of sponsored research from all sources annually, making it the 12th largest US research university in research volume and annual expenditures.



We envision a world-renowned community at Carolina that is leading in innovative research, educating future leaders, and engaging the public to solve major environmental, energy, and development challenges.
[Learn More](#)

UNC Institute for the Environment

Within the University, the UNC Institute for the Environment (IE) (<http://www.ie.unc.edu>) was formed with a vision of a world-renowned community at Carolina that is leading in innovative research, educating future leaders, and engaging the public to solve major environmental, energy, and development challenges.

Our mission is to strengthen environmental research capacity across UNC by supporting a multi-disciplinary community of scholars that enhances collaboration, increases sharing of knowledge, and identifies solutions to the world's critical environmental problems. Further, to work in partnership across UNC and with external partners to coordinate and deliver 21st century educational programs that provide students with the experience and skills to thrive in a growing global economy. And lastly, to put new environmental knowledge into action by engaging and serving communities, here in North Carolina and around the world.

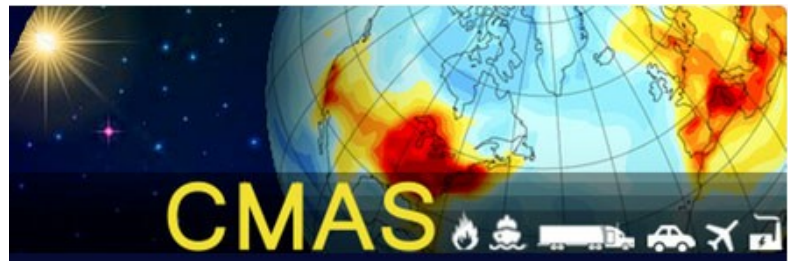
IE is leading UNC's world-renowned environmental community in developing solutions to these critical challenges. In doing so, it educates future environmental leaders and engages with the people of North Carolina and the nation to address and solve environmental challenges.

IE Center for Environmental Modeling for Policy Development

IE's Center for Environmental Modeling for Policy Development (CEMPD), is a team of research faculty, scientists and engineers dedicated to supporting sound policy making through the development and application of environmental software and models. Our clients and collaborators include government, industrial and academic professionals who utilize our services to generate and understand environmental information.

With a strong reputation in emissions, meteorology, air quality modeling, and extensive experience with the latest suite of models, CEMPD provides research, development, and application expertise in air quality modeling and related applications to federal, state, and local agencies, to regional planning organizations, to private research organizations and corporations, and to international groups.

Community Modeling and Analysis System (CMAS) Center



For Environmental Consulting, IE has an infrastructure in place with the Community Modeling and Analysis System (CMAS) Center. Under a cooperative agreement and earlier contracts with U.S. Environmental Protection Agency, the University of North Carolina's Institute for the Environment has hosted the CMAS Center since 2001. IE performs CMAS activities within four main components: user support and training, software development, basic model research, and outreach.

The CMAS Center is designed to leverage the modeling community's intellectual capital in air quality modeling and analyses and to continually refine the tools available for addressing air quality issues. At the core of the Center is the distribution and support of the Community Multiscale Air Quality (CMAQ) modeling system, the U.S. Environmental Protection Agency's state-of-the-science air quality model; the Sparse Matrix Operator Kernel Emissions (SMOKE) model, an advanced emissions processor; and the Meteorology- Chemistry Interface Processor (MCIP).

The CMAS center's analysis tools include:

The Community Multiscale Air Quality (CMAQ) Model;

The Sparse Matrix Operator Kernel Emissions (SMOKE) modeling system;

The Multimedia Integrated Modeling System (MIMS) Spatial Allocator;

The Atmospheric Model Evaluation Tool (AMET); and

The Visualization Environment for Rich Data Interpretation (VERDI).

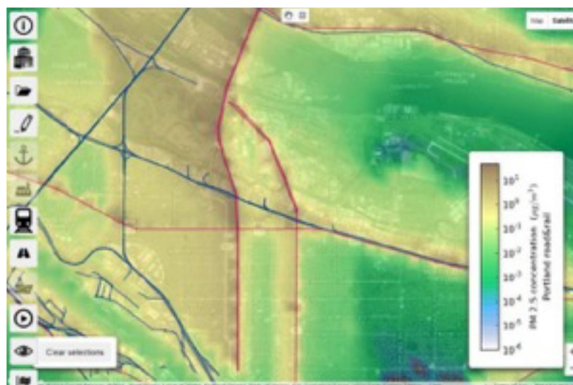


Figure 1: CMAS C-Line Map to find air quality monitoring locations

In addition, the Center distributes and supports the following models and tools:

The Emissions Modeling Framework (EMF)'s Control Strategy Tool (CoST) (EMF/CoST);

The Input/Output Applications Programming Interface (I/O API);

The WRF-CMAQ system, which couples CMAQ with the Weather Research and Forecasting (WRF) model;

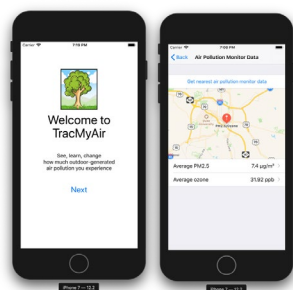


Figure 2: TracyMyAir – Smart Phone App for Personal Exposure monitoring.

The Research LINE (R-LINE) dispersion model for near-surface releases;

The Community-LINE (C-LINE) model; the Community modeling system for near-PORT (C-PORT);

The Fertilizer Emission scenario Tool for CMAQ (FEST-C); and

The Speciation Tool, which generates the factors needed to convert emissions inventory species to the lumped species used in air quality models.



Figure 3: CMAS C-PORT Tool to estimate impacts of different port-related planning scenarios.

Advancing Environmental Informatics



Computational and big data methodologies are at the core of supporting environmental research, impact analysis, and environmental policy decisions utilizing advanced statistical and dynamical modeling tools. IE uses these tools to monitor how the environment changes and is affected by human society.



Improving Public Health



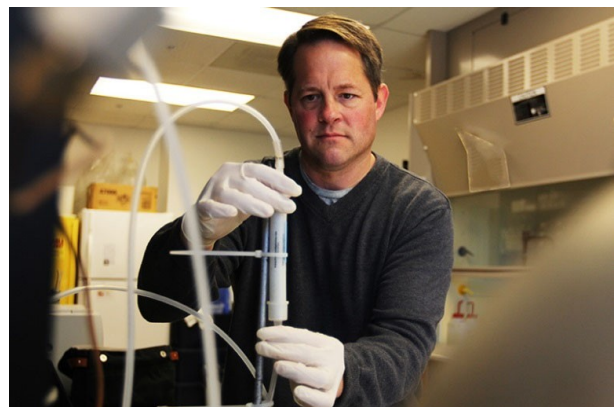
Air and water pollution are among the world's largest environmental health concerns, directly impacting respiratory health, and the safety and reliability of the food we eat and the water we drink. IE designs decision-support systems that help local and state health officials assess and develop policies to mitigate and improve environmental health, and to increase public awareness of potentially unhealthy and hazardous conditions.



Managing Environmental Risk



Understanding the nature and sources of these environmental risks, particularly under conditions of climate change, is a topic of growing importance to many businesses, government agencies, and non-governmental organizations. This work identifies and characterizes financial risks linked to environmental events and transfers this work into practical application through relationships with industry and government.



1. Customer Information	
a. SINS Awarded	541620
b. Lowest Price Model	Not Applicable
c. Environmental Consulting Labor Categories	Provided in Table 2
2. Maximum Order	\$1,000,000
3. Minimum Order	\$100
4. Geographic Coverage	Worldwide
5. Point(s) of Production	Chapel Hill, Orange County NC
6. Discount from list prices or statement of net price	Government Net Prices (discounts already deducted)
7. Quantity Discounts	Not Applicable
8. Prompt Payment Terms	Net 30 Days. Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions.
9. Government Purchase Cards	
a. Notification that Government Purchase Cards are accepted at or below the Micro-Purchase Threshold	Yes
b. Notification that Government purchase cards are accepted or not accepted above Micro- Purchase Threshold	Will accept, contact contractor
10. Foreign Items	Not applicable
11. Delivery	
a. Time of Delivery	Services only- from the date of the award until completion

b. Expediated Delivery	Services only- from the date of the award until completion
c. Overnight and 2-day delivery	Services only- from the date of the award until completion
d. Urgent Requirements	Services only- from the date of the award until completion
12. F.O.B. Point(s)	Services only – Destination
13. Ordering a. Ordering Address	David Paul, Executive Director Office of Sponsored Research 104 Airport Drive, Suite 2200 Chapel Hill, NC 27599-1350 919-966-3411, Fax 919-962-5011 gsaosr@unc.edu
b. Ordering procedures	For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's) are found in Federal Acquisition Regulation (FAR) 8.405-3
14. Payment Addresses a. Mail Only Address	University of North Carolina at Chapel Hill Office of Sponsored Research C/O Bank of America Lock Box Service P.O. Box 402420, Atlanta, GA 30384-2420
b. Courier Services Only	Bank of America Lock Box Service Lock Box 402420, 6000 Feldwood Road, College Park, GA 30349
15. Warranty Provision	Not applicable
16. Export packing charges, if applicable	Not applicable
17. Terms and conditions of Government purchase card acceptance (any thresholds above Micro-Purchase Level)	Contact Contractor
18. Terms and conditions of rental maintenance and repair	Not applicable
19. Terms and conditions of installation	Not applicable

20. Terms and conditions of repair parts indicating date of parts and price lists and any discounts from the list price	Not applicable
a. Terms and conditions for any other services	Not applicable
21. List of service and distribution points	Not applicable
22. List of participating dealers	Not applicable
23. Preventive Maintenance	Not applicable
24.	
a. Special attributes such as environmental attributes, e.g. recycled content, energy efficiency, and/or reduced pollutants	Not applicable
b. If applicable, indicate that Section 508 compliance information is available on Electronic and Information Technology (ETT) supplies and services and show where full details can be found (e.g. contractor's website or other location). The EIT standards can be found at: www.Section508.gov/ and https://digitalaccess.unc.edu/	Complaint
25. Data Universal Number Systems (DUNS) number	608195277
26. Notification regarding registration in the Systems for Award Maintenance (SAM) database	The University of North Carolina at Chapel Hill is registered in System for Award Management (SAM) database.

Table 1. Table of Awarded GSA Schedule MAS hourly rates

The unit of issue in Table 1 per the provided “price offered to GSA (including IFF)” is an hourly rate. All service proposed categories are contractors and based domestically. All “Most Favored Commercial Customer (MFC)” pricing and discounts offered through the GSA schedule is not applicable (N/A) for services provided by the University of North Carolina at Chapel Hill.

Labor Categories Pricing for SIN 541620								
Item	Awarded Labor Category	Minimum Education	Minimum Years of Experience	Year 1 July 2018- July 2019	Year 2 July 2019- July 2020	Year 3 July 2020- July 2021	Year 4 July 2021- July 2022	Year 5 July 2022- July 2023
1	Scientist 1	Master's	0	\$47.09	\$48.26	\$49.47	\$50.71	\$51.97
2	Scientist 2	Master's	4	\$66.96	\$68.64	\$70.35	\$72.11	\$73.92
3	Scientist 3	Master	9	\$110.78	\$113.55	\$116.38	\$119.29	\$122.28
4	Scientist 4	Master's	15	\$125.54	\$128.68	\$131.89	\$135.19	\$138.57
5	Research Assistant 1	Bachelors	0	\$58.34	\$59.80	\$61.30	\$62.83	\$64.40
6	Analyst 2	Bachelors	3	\$90.95	\$93.22	\$95.55	\$97.94	\$100.39
7	Project Manager 1	Master's	5	\$138.13	\$141.58	\$145.12	\$148.75	\$152.47
8	Project Manager 2	Ph.D.	15	\$207.92	\$213.12	\$218.45	\$223.91	\$229.50
9	Subject Matter Expert 2	Master's	4	\$108.02	\$110.72	\$113.49	\$116.33	\$119.24
10	Subject Matter Expert 3	Master's	9	\$135.05	\$138.42	\$141.88	\$145.43	\$149.07
11	Subject Matter Expert 4	Master's	15	\$193.90	\$198.74	\$203.71	\$208.81	\$214.03
12	GIS Analyst 2	Master's	4	\$94.07	\$96.43	\$98.84	\$101.31	\$103.84
13	GIS Analyst 4	Master's	15	\$133.57	\$136.90	\$140.33	\$143.84	\$147.43
14	Tech Editor 3	Master's	9	\$113.29	\$116.12	\$119.03	\$122.00	\$125.05

Service Contract Labor Standards (SCLS)

The Service Contract Labor Standards, formerly the Service Contract Act (SCA), apply to this contract and it includes SCLS applicable labor categories. Labor categories and fixed price services marked with a (**) in this pricelist are based on the U.S. Department of Labor Wage Determination Number(s) identified in the SCLS/SCA matrix. The prices awarded are in line with the geographic scope of the contract (i.e., nationwide).

Table 2. Labor Category Descriptions - SIN 541620

Please note the following regarding substitutions: For all categories, a Master's degree may be substituted for 3 years of experience. For all categories, a Ph.D. degree may be substituted for 4 years of experience.

<i>Labor Category</i>	<i>Education</i>	<i>Years of Experience</i>
Scientist 1 Under direct supervision, assists in providing analysis, guidance, and insight into the environmental, scientific, or technical discipline under evaluation.	Master's	0
Scientist 2 As part of a team, contributes analysis, guidance, and insight into the environmental, scientific, or technical discipline under evaluation. Serves as a scientific or technical resource on a task.	Master's	4
Scientist 3 Serves as a senior scientific or technical resource on a task or tasks. Provides analysis, guidance, and insight into the environmental, scientific, or technical discipline under evaluation.	Master's	9
Scientist 4 Generally regarded as an expert in the field. Serves as a lead or senior scientific or technical resource on a task or tasks. Provides analysis, guidance, and insight into the environmental, scientific, or technical discipline under evaluation.	Master's	15
Research Assistant 1 Provides general research support to projects. Produces training reports. Conducts related research. Maintains program databases, libraries, and filing systems.	Bachelors	0

<i>Labor Category</i>	<i>Education</i>	<i>Years of Experience</i>
Analyst 2 Leads and coordinates components of large projects or series of smaller projects with responsibility for budget management, project deliverables, client relations, and staff supervision or with responsibility for the application of advanced methods and techniques in a particular field of specialization. Review the work and provide technical guidance to less senior staff. Serves as a resource capable of applying advanced techniques, concepts, and methods related to a particular field of specialization. Serves as a scientific/technical resource in a particular field of specialization and supervises less senior staff in application of quantitative and qualitative analysis, techniques, and methods.	Bachelors	3
Project Manager 1 Oversees the successful completion of single projects. Develops scope for field and office tasks. Oversees and directs field exploration, sampling, inspection, analysis, and report production. Organizes resources, delegates staff assignments, prepares work plans and monitors schedules. Provides training for entry- level technicians and professional staff as needed. Oversees and monitors project budgets and reports to senior staff and clients. Conducts ongoing business development and ensures client satisfaction, technical excellence, and company reputation	Master's	5
Project Manager 2 Responsible for complex projects and multiple tasks and locations. Responsibilities include establishing project benchmarks and goals, quality control protocols, customer relations, general oversight of operations and related activities. Has overall cost and schedule responsibility, as well as working knowledge of applicable federal, state, and local laws, regulations and guidance related to the work to ensure compliance at all times.	Ph.D.	5
Subject Matter Expert 2 Provides expertise and experience in analyzing subject-specific literature, data, and innovations. Provides technical review, technical writing, and generates summaries, reports and presentations. Conducts data analysis and prepares data summaries and interpretations.	Master's	4

<i>Labor Category</i>	<i>Education</i>	<i>Years of Experience</i>
Subject Matter Expert 3 Has extensive expertise and experience in analyzing subject-specific literature, data, and innovations. Provides technical review, technical writing, and generates summaries, reports and presentations, such as technology assessments and program audits. Writes or edits technical materials, such as experimental design protocols, survey questions, equipment manuals, web pages, appendices, and operating and maintenance instructions. Translates technical information into readable documents to be used by technical and non-technical personnel. Conducts data analysis and prepares data summaries and interpretations. Has extensive publication record in peer-review publications. Works independently with client management staff. Responsible for quality control of technical reports. Provides technical and management skills for managing complex technical projects. Responsible for management of Subject Matter Experts 1 and 2.	Master's	9
Subject Matter Expert 4 Has extensive expertise and experience in analyzing subject-specific literature, data, and innovations. Provides technical review, technical writing, and generates summaries, reports and presentations, such as technology assessments and program audits. Writes or edits technical materials, such as experimental design protocols, survey questions, equipment manuals, web pages, appendices, and operating and maintenance instructions. Translates technical information into clear, readable documents to be used by technical and non-technical personnel. Conducts data analysis and prepares data summaries and interpretations. Has extensive publication record in peer-review publications. Works independently, directly with client management staff. Responsible for quality control of technical reports. Provides technical and management skills for managing large, complex technical projects. Responsible for management of Subject Matter Experts 1, 2, and 3.	Master's	15
GIS Analyst 2 Provides expertise and experience in developing, supporting, maintaining, and improving a variety of GIS services. This includes the production of maps, reports, modeling, and analysis by using database software. Researches, compiles, and evaluates source data using routine methods. Researches, and maintains data layers. Consults with users and other GIS systems to facilitate data sharing and resolves data acquisition issues. Has contributed to peer-review publications.	Master's	4

<i>Labor Category</i>	<i>Education</i>	<i>Years of Experience</i>
GIS Analyst 4 Has extensive expertise and experience in developing, supporting, maintaining, and improving a variety of GIS services. Designs and implements user-oriented databases, application programs, and documentation. Develops user-oriented programs to create and maintain data layers. Provides significant contributions to and develops peer review publications. Responsible for quality control of technical reports and presentations.	Master	15
Tech Editor 3 Has extensive expertise and experience in preparing government, business-to-business, and business- to-consumer documents. This includes research proposals, reports, and technical articles for publication. Manages the publication process for technical documents. Editorial responsibility for content of documentation and presentations. Translates technical and scientific data into clear, readable documents to be used by technical and non- technical personnel. Works independently, directly with client management staff.	Master's	9