On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order is available through GSA Advantage!, a menu-driven database system. The internet address for GSA Advantage! is http://www.gsaadvantage.gov/

**Schedule: MAS**
Office management
Solicitation #47QSMD20R0001 Refresh #0006

**Special Item Number(s):**
333249 3D Printing and Additive Manufacturing Solutions

**Contract Number:**
GS-03F-140DA

**Contract Period of Performance:**
September 16, 2016 – September 12, 2021

**Building Momentum, LLC**
502 Upland Place, Alexandria VA 22301
Edward Ash
(P) 315.523.4646
(F) please e-mail me a PDF

**Web Address**
https://www.buildmo.com

**Contract Administrator:**
Name: Edward Ash

**Email Address**
Ned@buildmo.com
Company Information

Building Momentum is a service-disabled veteran-owned small business (SDVOSB) that provides science and engineering consulting, technology development, maker space and mobile lab design and construction, and innovation training to defense, education, corporate, and entrepreneurial organizations.

Business Size and Socio-Economic Status:
Service-Disabled Veteran Owned Small Business
DUNS: 079753701
CAGE Code: 7DSG9

1a. Items for Multi Award Schedule number 333249 with appropriate cross-reference to item descriptions and awarded price(s):

<table>
<thead>
<tr>
<th>Company/ MFR Name</th>
<th>MFR Part #</th>
<th>Description</th>
<th>Unit of Issue</th>
<th>GSA Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building Momentum, LLC</td>
<td>Innovation Boot Camp</td>
<td>Building Momentum's flagship 5-day training program that teaches up to 16 participants how to solve problems and build solutions with the technologies and tools in the Mobile Training BuildLab. The participants learn how to solve problems using MIG/TIG welding, plasma cutting, machining and metal working, wood working, CAD and 3D printing, laser scanning overview, laser cutting/etching, vector graphics design, Arduino microcontroller implementation and programming, introduction to Raspberry Pi programming, robotics, electronics, electricity fundamentals, and all the tools and capabilities in the Mobile Training BuildLab. Additionally, participants learn strategies for team building and leadership, project/time management, and developing prototypes on short timelines. All training and after-training interviews/reviews are conducted by Ph.D. engineers and industry experts in the rapid prototyping field. Transportation and per diem for instructors are not included in this pricing. Training pricing is based on commercial costs of project materials and components and 160 hours of world class instruction. Instructor labor category descriptions are found in the Building Momentum Labor Categories GSA document. The Mobile Training BuildLab can be leased for the week if necessary. See GSA Leasing a Lab for pricing.</td>
<td>Per Course</td>
<td>$70,684.20</td>
</tr>
<tr>
<td>Building Momentum, LLC</td>
<td>Two Day Deep Dive Training</td>
<td>Building Momentum provides more in depth 'Deep Dives’ on a myriad of engineering and prototyping topics to include equipment set-up and installation,</td>
<td>Per Course</td>
<td>$20,662.00</td>
</tr>
<tr>
<td>Building Momentum, LLC</td>
<td>Operation and training, and problem solving with specific tools. The participants can learn nearly any tool or equipment to include TIG welding/plasma cutting, advanced CAD and 3D printing, laser scanning, advanced laser cutting/etching techniques, advanced Arduino microcontroller implementation and programming, Raspberry Pi programming and sensor implementation, PCB design and fabrication, advanced electrical engineering, alternative power solutions, introduction to wireless communications and Internet of Things technologies, mobile device application development overview, drone development and assembly, advanced robotics, and introduction to CNC milling. Additionally, participants learn strategies for team building and leadership, project/time management, and developing prototypes on short timelines. All training and after-training interviews/reviews are conducted by Ph.D. engineers and industry experts in the rapid prototyping field. Training price includes instructor labor and any equipment prep or classroom set-up and is for up to 8 students depending on the available technologies/space/equipment/etc. Equipment, tools, software, and other tech and supplies/consumables are not provided in this training but are available on this GSA schedule. Transportation and per diem for instructors are not included in this pricing. Instructor labor category descriptions are found in the Building Momentum Labor Categories GSA document.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building Momentum, LLC</td>
<td>Introduction to Additive Manufacturing and Drones (8)</td>
<td>Building Momentum provides a more in-depth course on the theory, design, and development of sUAS’ supported by a myriad of engineering and prototyping techniques. The course includes equipment set-up and installation, operation and training, construction and repair of drones, and problem-solving with specific tools. The participants will learn advanced CAD and 3D printing, sUAS assembly and modification, 3D material science. Participants will learn additive manufacturing techniques to create fuselages, chassis, and add-ons to generate 3D printed sUAS’. Additionally, participants learn strategies for team building and leadership, project/time management, and developing prototypes on short timelines. All training and after-training Interviews/reviews are conducted by Ph.D. engineers and industry experts in the rapid prototyping field. Travel and Per Diem is not included in this pricing. Training price includes instructor labor and any equipment prep or classroom set-up and is for up to 8 students</td>
<td>$52,751.89</td>
<td></td>
</tr>
<tr>
<td>Company</td>
<td>Role</td>
<td>Description</td>
<td>Per Hour</td>
<td>Rate</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------</td>
<td>-------</td>
</tr>
<tr>
<td>Building Momentum, LLC</td>
<td>Innovation Expert III</td>
<td>Recognized expert in designing and developing maker spaces, curriculum, and training groups of people in rapid prototyping skills, techniques, and approaches. Operational, instructional, and design/development knowledge of prototyping tools and equipment (3D printers, laser cutters, CNC machines, welders, plasma cutters, CAD/CAM, and various software packages). Extremely knowledgeable in team building, leadership training, design thinking, project/time management, strategic group/team dynamics, and conflict resolution. Has been in rapid prototyping environments, like the battlefield or in disaster relief scenarios, and has a keen understanding of the rigors of engineering in resource-deprived environments. Manages and develops all training curriculum and operational aspects of materiel ordering through client relations and interaction.</td>
<td>$192.09</td>
<td></td>
</tr>
<tr>
<td>Building Momentum, LLC</td>
<td>Administrator II</td>
<td>Provides oversight the day-to-day operations of an organization and ensuring that the project has the staff, resources and funds needed to run smoothly. Their duties include coordinating staff schedules, maintaining supplies and inventory, and implementing professional development strategies. Work with upper management to develop budgets and create financial forecasts to ensure the organization remains solvent. Will also serve as facilities security officer (FSO) as needed.</td>
<td>$79.65</td>
<td></td>
</tr>
<tr>
<td>Building Momentum, LLC</td>
<td>Subject Matter Expert III</td>
<td>Provides extremely high-level subject matter expertise for work described in the task. Provides advanced technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, training, and implementation advice on complex problems which require doctorate level knowledge of the subject matter for effective implementation. Applies principles, methods, and knowledge of specific functional areas of expertise to specific task order requirements. Provides advice on esoteric problems which require extensive knowledge of the subject matter. Designs and prepares technical reports, studies, and related documentation, makes charts and graphs to record results, prepares and delivers presentations, training, and briefings as required by the task order.</td>
<td>$210.83</td>
<td></td>
</tr>
</tbody>
</table>
Building Momentum sells tools, kits, and components for Build Labs
- 3D printers, accessories, and consumables
- SLS resin printers, accessories, and consumables
- Microcontrollers and electronics kits
- 3D scanners
- Welding Equipment
- Electronics and Diagnostic Tools

Generators

1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession affecting price. Those contracts that have unit prices based on the geographic location of the customer, should show the range of the lowest price, and cite the areas to which the prices apply:

<table>
<thead>
<tr>
<th>Company/ MFR Name</th>
<th>MFR Part #</th>
<th>Description</th>
<th>Unit of Issue</th>
<th>GSA Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building Momentum, LLC</td>
<td>Innovation Expert I</td>
<td>Operational knowledge of prototyping tools and equipment (3D printers, laser cutters, CNC machines, welders, plasma cutters, CAD/CAM, and various software packages), assisting in Building Momentum training of people in rapid prototyping skills, techniques, and approaches. Knowledgeable in some aspects of team building, leadership training, design thinking, project/time management, strategic group/team dynamics, and conflict resolution.</td>
<td>Per Hour</td>
<td>$98.39</td>
</tr>
<tr>
<td>Building Momentum, LLC</td>
<td>Administrator I</td>
<td>Provides administrative support to ensure efficient operation of the project. Supports managers and employees through a variety of tasks related to organization and communication. Responsible for confidential and time sensitive material.</td>
<td>Per Hour</td>
<td>60.91</td>
</tr>
</tbody>
</table>

1c. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles, experience, functional responsibility, and education for those types of employees or subcontractors who will perform services shall be provided. If hourly rates are not applicable, indicate “Not applicable” for this item:

For descriptions, see “GSA Schedule MAS Labor Category (LCAT) Descriptions” below, and the LCAT price table for hourly rates.

2. Maximum order:
$750,000

3. Minimum order: $100

4. Geographic coverage (delivery area): CONUS and OCONUS.

5. Point(s) of production (city, county, and State or foreign country): Alexandria, Virginia

6. Discount from list prices or statement of net price: Prices shown herein are net to the Government. For other discounts please contact Building Momentum

7. Quantity discounts: Yes, please contact Building Momentum

8. Prompt payment terms. Note: Prompt payment terms must be followed by the statement "Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions.": 1.5% discount within 10 days—Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions.

9a. Notification that Government purchase cards are accepted at or below the micro-purchase threshold: Yes.

9b. Notification whether Government purchase cards are accepted or not accepted above the micro-purchase threshold: Yes.

10. Foreign items (list items by country of origin): None

11a. Time of delivery. Within 90 days

11b. Expedited Delivery. The Contractor will insert the sentence “Items available for expedited delivery are noted in this price list.” under this heading. The Contractor may use a symbol of its choosing to highlight items in its price lists that have expedited delivery: Please contact Building Momentum for expedited delivery rates
11c. Overnight and 2-day delivery. The Contractor will indicate whether overnight and 2-day delivery are available. Also, the Contractor will indicate that the schedule customer may contact the Contractor for rates for overnight and 2-day delivery: **Determined at the Task Order Level**

11d. Urgent Requirements. The Contractor will note in its price list the "Urgent Requirements" clause of its contract and advise agencies that they can also contact the Contractor’s representative to effect a faster delivery: **Determined at the Task Order Level**

11e. Frustrated Freight: Packaged and marked in accordance with the FED-STD-123 and MIL-STD-129 edition in effect as of the date of solicitation issuance. **Yes**

12. F.O.B. Term(s): **Origin**

13a. Ordering address(es): **5380 Eisenhower Ave, Ste C, Alexandria VA 22304**

13b. 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. **Contact Contractor.**

14. Payment address(es): **5380 Eisenhower Ave, Ste C, Alexandria VA 22304.**

15. Warranty provision: **28 Days.**

16. Export packing charges, if applicable: **Determined at the Task Order Level**

17. Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level): **Yes, please contact contractor.**

18. Terms and conditions of rental, maintenance, and repair (if applicable): **Contact contractor.**

19. Terms and conditions of installation (if applicable): **Contact contractor.**
20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable):
   Contact contractor.

20a. Terms and conditions for any other services (if applicable):
   Not applicable.

21. List of service and distribution points (if applicable):
   Not applicable.

22. List of participating dealers (if applicable):
   Not applicable.

23. Preventive maintenance (if applicable):
   Not applicable.

24a. Special attributes such as environmental attributes (e.g., recycled content, energy efficiency, and/or reduced pollutants):
   Please reference material safety data sheets

24b. If applicable, indicate that Section 508 compliance information is available on Electronic and Information Technology (EIT) 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/

25. Data Universal Number System (DUNS) number: 079753701

26. Notification regarding registration in System for Award Management (SAM) database:
   Active; CAGE Code: 7DSG9
GSA Schedule MAS Labor Category (LCAT) Descriptions

**LCAT**

**Innovation Expert III**
- Ph.D. with at least 10 years’ experience in a prototyping field and 3+ years of Innovation Training experience; or MS/BS with at least 15 years’ experience in a prototyping field and 6+ years of Innovation Training experience.
- Ph.D. = 10, MS/BS = 15
- Recognized expert in designing and developing maker spaces, curriculum, and training groups of people in rapid prototyping skills, techniques, and approaches. Operational, instructional, and design/development knowledge of prototyping tools and equipment (3D printers, laser cutters, CNC machines, welders, plasma cutters, CAD/CAM, and various software packages). Extremely knowledgeable in team building, leadership training, design thinking, project/time management, strategic group/team dynamics, and conflict resolution. Has been in rapid prototyping environments, like the battlefield or in disaster relief scenarios, and has a keen understanding of the rigors of engineering in resource-deprived environments. Manages and develops all training curriculum and operational aspects of materiel ordering through client relations and interaction.

**Innovation Expert II**
- Ph.D. with at least 1-year experience in a prototyping field and 1+ years of Innovation Training experience; or MS/BS with at least 5 years’ experience in a prototyping field and 1+ years of Innovation Training experience.
- Ph.D. = 1, MS/BS = 5
- Operational and instructional knowledge of prototyping tools and equipment (3D printers, laser cutters, CNC machines, welders, plasma cutters, CAD/CAM, and various software packages). Competent training groups of people in rapid prototyping skills, techniques, and approaches. Knowledgeable in team building, leadership training, design thinking, project/time management, strategic group/team dynamics, and conflict resolution. Manages and develops some training curriculum and operational aspects of materiel ordering through client relations and interaction.

**Innovation Expert I**
- MS/BS with at least 2 years’ experience in a prototyping field, or 4+ years’ experience in a prototyping or training field
- MS/BS = 2
- Operational knowledge of prototyping tools and equipment (3D printers, laser cutters, CNC machines, welders, plasma cutters, CAD/CAM, and various software packages), assisting in Building Momentum training of people in rapid prototyping skills, techniques, and approaches. Knowledgeable in some aspects of team building, leadership training, design thinking, project/time management, strategic group/team dynamics, and conflict resolution.
Administrator II
- MS/BS with at least X years of experience in operations.
- MS/BS = X
- Provides oversight the day-to-day operations of an organization and ensuring that the project has the staff, resources and funds needed to run smoothly. Their duties include coordinating staff schedules, maintaining supplies and inventory, and implementing professional development strategies. Work with upper management to develop budgets and create financial forecasts to ensure the organization remains solvent. Will also serve as facilities security officer (FSO) as needed.

Administrator I
- MS/BS with at least X years of experience in operations.
- MS/BS = X
- Provides administrative support to ensure efficient operation of the project. Supports managers and employees through a variety of tasks related to organization and communication. Responsible for confidential and time sensitive material.

Subject Matter Expert III
- MS/BS with at least X years of experience in the relevant subject matter
- Provides extremely high-level subject matter expertise for work described in the task. Provides advanced technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, training, and implementation advice on complex problems which require doctorate level knowledge of the subject matter for effective implementation. Applies principles, methods, and knowledge of specific functional areas of expertise to specific task order requirements. Provides advice on esoteric problems which require extensive knowledge of the subject matter. Designs and prepares technical reports, studies, and related documentation, makes charts and graphs to record results, prepares and delivers presentations, training, and briefings as required by the task order.

GSA Schedule MAS Course Descriptions

Innovation Boot Camp
- Building Momentum’s flagship 5-day training program that teaches up to 8 participants how to solve problems and build solutions with the technologies and tools in the Mobile Training BuildLab. The participants learn how to solve problems using MIG/TIG welding, plasma cutting, machining and metal working, wood working, CAD and 3D printing, laser scanning overview, laser cutting/etching, vector graphics design, Arduino microcontroller implementation and programming, introduction to Raspberry Pi programming, robotics, electronics, electricity fundamentals, and all the tools and capabilities in the Mobile Training BuildLab. Additionally, participants learn strategies for team building and leadership, project/time management, and developing prototypes on short timelines. All training and after-training interviews/reviews are conducted by Ph.D. engineers and industry experts in the rapid prototyping field. Transportation and
per diem for instructors are not included in this pricing. Training pricing is based on commercial costs of project materials and components and 160 hours of world class instruction. Instructor labor category descriptions are found in the Building Momentum Labor Categories GSA document. The Mobile Training BuildLab can be leased for the week if necessary. See GSA Leasing a Lab for pricing.

Advanced Innovation Boot Camp
- Building upon Building Momentum’s flagship 5-day training program the Advanced Innovation Boot Camp teaches up to 8 participants how to solve more challenging problems and build increasingly complex solutions with the technologies and tools in the Mobile Training BuildLab. The participants learn how to solve problems using advanced TIG welding/plasma cutting, advanced CAD and 3D printing, laser scanning, advanced laser cutting/etching techniques, advanced Arduino microcontroller implementation and programming, Raspberry Pi programming and sensor implementation, PCB design and fabrication, advanced electrical engineering, alternative power solutions, introduction to wireless communications and Internet of Things technologies, mobile device application development overview, and introduction to CNC milling. Additionally, participants learn strategies for team building and leadership, project/time management, and developing prototypes on short timelines. All training and after-training interviews/reviews are conducted by Ph.D. engineers and industry experts in the rapid prototyping field. Training price includes all project and training materials as well as consumables, food, beverages, fuel, etc. for the 40+ hours of training. Transportation and per diem for instructors are not included in this pricing. Training pricing is based on commercial costs of project materials and components and 180 hours of world class instruction. Instructor labor category descriptions are found in the Building Momentum Labor Categories GSA document.

Two Day Deep Dive Training
- Building Momentum provides more in depth 'Deep Dives' on a myriad of engineering and prototyping topics to include equipment set-up and installation, operation and training, and problem solving with specific tools. The participants can learn nearly any tool or equipment to include TIG welding/plasma cutting, advanced CAD and 3D printing, laser scanning, advanced laser cutting/etching techniques, advanced Arduino microcontroller implementation and programming, Raspberry Pi programming and sensor implementation, PCB design and fabrication, advanced electrical engineering, alternative power solutions, introduction to wireless communications and Internet of Things technologies, mobile device application development overview, drone development and assembly, advanced robotics, and introduction to CNC milling. Additionally, participants learn strategies for team building and leadership, project/time management, and developing prototypes on short timelines. All training and after-training interviews/reviews are conducted by Ph.D. engineers and industry experts in the rapid prototyping field. Training price includes instructor labor and any equipment prep or classroom set-up and is for up to 8 students depending on the available technologies/space/equipment/etc. Equipment, tools, software, and other tech and supplies/consumables are not provided in this training but are available on this GSA...
schedule. Transportation and per diem for instructors are not included in this pricing. Instructor labor category descriptions are found in the Building Momentum Labor Categories GSA document.

**Introduction to Additive Manufacturing and Drones**
- Building Momentum provides a more in-depth course on the theory, design, and development of sUAS’ supported by a myriad of engineering and prototyping techniques. The course includes equipment set-up and installation, operation and training, construction and repair of drones, and problem-solving with specific tools. The participants will learn advanced CAD and 3D printing, sUAS assembly and modification, 3D material science. Participants will learn additive manufacturing techniques to create fuselages, chassis, and add-ons to generate 3D printed sUAS’. Additionally, participants learn strategies for team building and leadership, project/time management, and developing prototypes on short timelines. All training and after-training Interviews/reviews are conducted by Ph.D. engineers and industry experts in the rapid prototyping field. Travel and Per Diem is not included in this pricing. Training prices include instructor labor and any equipment prep or classroom set-up and is for either 8 or 12 students depending on the available technologies/space/equipment/etc. Instructor labor category descriptions are found in the Building Momentum Labor Categories GSA document.

**Price List Effective Date: 05/08/2019**

**GSA Schedule MAS Labor Category (LCAT) Rates with 5 Year Escalation**

<table>
<thead>
<tr>
<th>SIN</th>
<th>Labor Category Name</th>
<th>GSA Price Inclusive of IFF Year 1 2018</th>
<th>GSA Price Inclusive of IFF Year 2 2019</th>
<th>GSA Price Inclusive of IFF Year 3 2020</th>
<th>GSA Price Inclusive of IFF Year 4 2021</th>
<th>GSA Price Inclusive of IFF Year 5 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>333249</td>
<td>Innovation Expert III</td>
<td>$192.09</td>
<td>$192.09</td>
<td>197.85</td>
<td>$203.79</td>
<td>$209.90</td>
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<tr>
<td>333249</td>
<td>Innovation Expert II</td>
<td>$154.61</td>
<td>$154.61</td>
<td>$159.25</td>
<td>$164.03</td>
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<tr>
<td>333249</td>
<td>Innovation Expert I</td>
<td>$98.39</td>
<td>$98.39</td>
<td>$101.34</td>
<td>$104.38</td>
<td>$107.51</td>
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<td>SIN</td>
<td>Course</td>
<td>Course Length</td>
<td>Minimum Participants</td>
<td>Maximum Participants</td>
<td>GSA Price Inclusive of IFF</td>
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</tr>
<tr>
<td>-------</td>
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<td>---------------------------</td>
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</tr>
<tr>
<td>333249</td>
<td>Innovation Boot Camp</td>
<td>5 Days</td>
<td>6</td>
<td>8</td>
<td>$29,751.00</td>
<td></td>
</tr>
<tr>
<td>333249</td>
<td>Advanced Innovation Boot Camp</td>
<td>5 Days</td>
<td>6</td>
<td>8</td>
<td>$33,264.00</td>
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<tr>
<td>333249</td>
<td>Two Day Deep Dive Training</td>
<td>2 Days</td>
<td>6</td>
<td>8</td>
<td>$9,323.00</td>
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<tr>
<td>333249</td>
<td>Introduction to Additive Manufacturing and Drones (8)</td>
<td>5 Days</td>
<td>6</td>
<td>8</td>
<td>$52,751.89</td>
<td></td>
</tr>
<tr>
<td>333249</td>
<td>Introduction to Additive Manufacturing and Drones (12)</td>
<td>5 Days</td>
<td>10</td>
<td>12</td>
<td>$66,077.25</td>
<td></td>
</tr>
</tbody>
</table>

GSA Schedule MAS Course Rates

GSA Schedule MAS Product Pricing