



Advatech Pacific

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GENERAL SERVICES ADMINISTRATION (GSA)

Federal Supply Service

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ADVATECH PACIFIC, INC.

Professional Engineering Services (PES)

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Professional Engineering Disciplines (PED):

Electrical Engineering (EE) and Mechanical Engineering (ME)

Special Item Numbers (SINs):

871-1 Strategic Planning for Technology Programs/Activities

871-2 Concept Development and Requirements Analysis

871-3 System Design, Engineering and Integration

871-4 Test and Evaluation

871-6 Acquisition and Life Cycle Management

TABLE OF CONTENTS

1.0 ADVATECH PACIFIC, INC. COMPANY INFORMATION..... 1

2.0 CUSTOMER INFORMATION 2

LIST OF FIGURES

FIGURE 2-1. API SITE 5-YEAR BASE PERIOD PRICING PER LBC..... 6

FIGURE 2-2. GOVERNMENT SITE 5-YEAR BASE PERIOD PRICING PER LBC. 7

FIGURE 2-3. DEMONSTRATED EQUIVALENTS OF ACADEMIC DEGREES. 8

1.0 ADVATECH PACIFIC, INC. COMPANY INFORMATION

Advatech Pacific, Inc. was incorporated in February 1995 and is registered with the State of California as an engineering firm. Since its incorporation, the company has been providing Professional Engineering Services with applications in aerospace, defense, and industrial equipment. The majority of Advatech Pacific's engineering services involve the Mechanical Engineering and Electrical Engineering disciplines, with certain aspects of Chemical Engineering. Advatech Pacific's headquarters is located in San Bernardino, CA, with satellite offices in Centreville, VA; Palmdale, CA; and Phoenix, AZ.

The Advatech Team has extensive experience working in aerospace and defense with both government and commercial customers. This experience base gives Advatech a vast resource for supporting program and mission planning, development of architectures, and technology evaluations for government and commercial organizations. Advatech's primary engineering specialties include but are not limited to developing software engineering tools, communication/electronic solutions, interoperability solutions, commercial software development, and advanced engineering design and analysis. Advatech is supported by a network of part time "gray beard" employees and consultants that provide depth, breadth, and unique perspectives. Advatech Pacific's personnel have extensive experience with many high-profile systems, from the early jet liners to the B-2, from the Tomahawk to the Peacekeeper missile, as well as satellite design and analysis programs. This cumulative experience base is the foundation for the company's success.

Advatech Pacific's primary customers include the Air Force Research Laboratories (AFRL) at Edwards AFB and Kirtland AFB, the Missile Defense Agency (MDA), Office of Naval Research (ONR), Naval Air Systems Command (NAVAIRSYSCOM), Pratt & Whitney, Aviation Partners, Inc., and Northrop Grumman. Advatech Pacific has an extensive, successful record of developing engineering software tools, linking them with existing customer and commercial engineering tools, and performing analyses services with these tools to create a multi-disciplinary engineering design and analysis environment. Our goal is to provide customers with the information and tools required to advance technology, improve cycle time, reduce risk, and reduce system costs. Advatech also has established and working relationships with universities and subject matter experts throughout the country to keep abreast of the latest developments in our core competencies.

Advatech Pacific has performed on multiple government engineering service contracts, which have contributed to the development of our expertise and capabilities as related to PES. These contracts include but are not limited to: Integrated Propulsion Analysis Tool (IPAT) for AFRL/RZ at Edwards AFB; Advanced Computational Engineering Simulator (ACES) for AFRL/RV at Kirtland AFB, Advanced Cost Model (ACM) for AFRL/RV at Kirtland AFB and in support of Penn State Applied Physics Lab for NAVSEA; Integrated Hypersonic Aeromechanics Tool (IHAT) for Naval Air Warfare Center Weapons Division, China Lake; Sprite "lowest cost" launch vehicle in support of Whittinghill Aerospace for DARPA; Highly Mobile Tactical Communications (HMTc) for the Office of Naval Research; and SBIR Phase I, Space Propulsion Modeling and Simulation (SPMS).

2.0 CUSTOMER INFORMATION

Advatech Pacific, Inc. has been awarded a GSA Federal Supply Service contract to provide Professional Engineering Services within the scope of the Electrical and Mechanical Engineering disciplines. Advatech pursued this contracting mechanism to better serve our clients, make the company readily available to the GSA customer base, and to streamline business practices. The following contains contract information authorized by GSA.

2.1a TABLE OF AWARDED SPECIAL ITEM NUMBERS WITH APPROPRIATE CROSS-REFERENCE TO PAGE NUMBERS:

871-1 Strategic Planning for Technology Programs/Activities

871-2 Concept Development and Requirements Analysis

871-3 System Design, Engineering and Integration

871-4 Test and Evaluation

871-6 Acquisition and Life Cycle Management

The following SINs are incorporated to include Recovery Purchasing in accordance with Section 833 of the National Defense Authorization Act for Fiscal Year 2007 for disaster relief:

871-1RC, 871-2RC, 871-3RC, 871-4RC, and 871-6RC.

The pricing for the SINs with the suffix "RC" is the same as the corresponding SIN awarded without the suffix.

AWARDED SPECIAL ITEM NUMBERS & DESCRIPTIONS:

871-1 Strategic Planning for Technology Programs/Activities

Services available under this SIN involve the definition and interpretation of high-level organizational engineering performance requirements such as projects, systems, missions, etc., and the objectives and approaches to their achievement. Typical associated tasks include, but are not limited to an analysis of mission, program goals and objectives, requirements analysis, organizational performance assessment, special studies and analysis, training, privatization and outsourcing.

Example: The evaluation and preliminary definition of new and/or improved performance goals for navigation satellites - such as launch procedures and costs, multi-user capability, useful service life, accuracy and resistance to natural and man made electronic interference. Inappropriate use of this SIN is providing professional engineering services not specifically related to strategic planning for technology programs/activities and its associated disciplines.

871-2 Concept Development and Requirements Analysis

Services available under this SIN involve abstract or concept studies and analysis, requirements definition, preliminary planning, the evaluation of alternative technical approaches and associated costs for the development or enhancement of high level general performance specifications of a system, project, mission or activity. Typical tasks include, but are not limited

to: requirements analysis, cost-performance trade-off analysis, feasibility analysis, regulatory compliance support, technological conceptual designs, training, privatization and outsourcing.

Example: The development and analysis of the total mission profile and life cycle of the improved satellite including examination of performance and cost tradeoffs. Inappropriate use of this SIN is providing professional engineering services not specifically related to concept development and requirements analysis and its associated disciplines.

871-3 System Design, Engineering and Integration

Services available under this SIN involve the translation of a system (or subsystem, program, project, activity) concept into a preliminary and detailed design (engineering plans and specifications), performing risk identification/analysis/mitigation, trace ability, and then integrating the various components to produce a working prototype or model of the system. Typical associated tasks include, but are not limited to: computer-aided design, design studies and analysis, high level detailed specification preparation, configuration management and document control, prototype fabrication, assembly and simulation, modeling, training, privatization and outsourcing.

Example: The navigation satellite concept produced in the preceding stage will be converted to a detailed engineering design package, performance will be computer simulated and a working model will be built for testing and design verification. Inappropriate use of this SIN is providing professional engineering services not specifically related to concept development and requirements analysis and its associated disciplines.

871-4 Test and Evaluation

Services available under this SIN involve the application of various techniques demonstrating that a prototype system (subsystem, program, project or activity) performs in accordance with the objectives outlined in the original design. Typical associated tasks include, but are not limited to: testing of a prototype and first article(s) environmental testing, independent verification and validation, reverse engineering, simulation and modeling (to test the feasibility of a concept), system safety, quality assurance, physical testing of a product or system, training, privatization and outsourcing.

Example: The navigation satellite-working model will be subjected to a series of tests, which may simulate and ultimately duplicate its operational environment. Inappropriate use of this SIN is providing professional engineering services not specifically related to testing and evaluating and its associated disciplines.

871-6 Acquisition and Life Cycle Management

Services available under this SIN involve all of the planning, budgetary, contract and systems/program management execution functions required to procure and/or produce, render operational and provide life cycle support (maintenance, repair, supplies, engineering specific logistics) to technology-based systems, activities, subsystems, projects, etc. Typical associated tasks include, but are not limited to: operation and maintenance, program/project management, technology transfer/insertion, training, privatization and outsourcing.

Example: During this stage the actual manufacturing, launch, and performance monitoring of the navigation satellite will be assisted through project management, configuration management, reliability analysis, engineering retrofit improvements and similar functions. Inappropriate use of this SIN is professional engineering services not specifically related to acquisition and life cycle management and associated disciplines.

PROFESSIONAL ENGINEERING DISCIPLINE'S (PED'S) & DESCRIPTIONS:**Electrical Engineering (EE)**

Includes planning, design, development, evaluation and operation of electrical principles, models and processes. It includes but is not limited to the design, fabrication, measurement and operation of electrical devices, equipment and systems (e.g., signal processing, telecommunication, sensors, microwave and image processing, micro-fabrication, energy systems and control, micro and nano electronics, plasma processing, laser and photonics, satellites, missiles and guidance systems, space vehicles, fiber optics, robotics etc.).

The following services are within the scope of work for electrical engineering:

- Aerospace and Electronic Systems
- Antennas and Propagation
- Broadcast Technology
- Circuits and Systems
- Communications
- Components Packaging and Manufacturing Technology
- Computer
- Consumer Electronics
- Control Systems
- Dielectrics and Electrical Insulation
- Education
- Electromagnetic Compatibility
- Engineering in Medicine and Biology
- Engineering Management
- Geosciences and Remote Sensing
- Industrial Electronics
- Industry Applications
- Information Theory
- Instrumentation and Measurement
- Intelligent Transportation Systems
- Lasers and Electro-Optics
- Magnetics
- Microwave Theory and Techniques
- Neural Networks Council
- Nuclear and Plasma Sciences
- Oceanic Engineering
- Power Engineering
- Professional Communication
- Reliability
- Robotics and Automation
- Signal Processing on Social Implications of Technology
- Solid-State Circuits
- Systems, Man and Cybernetics
- Ultrasonics, Ferroelectrics and Frequency Control
- Vehicular Technology
- Other Chemical Engineering Specialties not listed in the "Services not Included Paragraph"

Mechanical Engineering (ME)

Includes planning, development, evaluation and control of systems and components involving the production and transfer of energy, with the conversion of one form of energy to another. Mechanical engineering includes but is not limited to planning and evaluation of power plants, analysis of the economical combustion of fuels, conversion of heat energy into mechanical energy, use of mechanical energy to perform useful work, analysis of structures and motion in mechanical systems and conversion of raw materials into a final product, etc. (e.g., thermodynamics, mechanics, fluid mechanics, jets, rocket engines, internal combustion engines, steam and gas turbines, continuum mechanics, dynamic systems, dynamics, fluid mechanics, heat transfer, manufacturing, materials, solid mechanics, reactors, etc.).

The following services are within the scope of work for mechanical engineering:

- Advanced Energy Systems
- Aerospace Engineering
- Applied Mechanics
- ASME Heat Transfer/K16
- Bioengineering
- Design Engineering
- Dynamic Systems and Control
- Electrical and Electronic Packaging
- Environmental Engineering*
- Fluids Engineering
- Fluids Power Systems and Technology Systems
- Fuels and Combustion Technologies
- Heat Transfer
- Information Storage and Processing Systems
- Internal Combustion Engine
- International Gas Turbine
- Management
- Manufacturing Engineering*
- Materials
- Materials Handling Engineering*
- Microchannel Flow and Heat Transfer
- Noise Control and Acoustics
- Non-Destructive Evaluation Engineering
- Nuclear Engineering
- Ocean Engineering
- Offshore Mechanics and Arctic Engineering
- Petroleum
- Plant Engineering and Maintenance
- Power
- Pressure Vessels and Piping
- Process Industries
- Rail Transportation
- Safety Engineering and Risk Analysis
- Solar Energy
- Solid Waste Processing
- Technology and Society
- Textile Engineering
- Tribology
- Other Mechanical Engineering Specialties not listed in the “Services not Included Paragraph”

2.1b PRICE LIST

Advatech Pacific's API Site Rates						
Labor Bid Category (LBC)		Year 1 (2009)	Year 2 (2010)	Year 3 (2011)	Year 4 (2012)	Year 5 (2013)
Document Specialist 1	DOCS 1	\$71.38	\$74.31	\$77.35	\$80.52	\$83.83
Document Specialist 2	DOCS 2	\$82.21	\$85.58	\$89.09	\$92.74	\$96.54
Document Specialist 3	DOCS 3	\$104.08	\$108.35	\$112.79	\$117.41	\$122.23
Document Specialist 4	DOCS 4	\$122.57	\$127.60	\$132.83	\$138.27	\$143.94
Engineering/ Drafter Technician	EDD B	\$70.48	\$73.37	\$76.38	\$79.51	\$82.77
Engineer/ Design Engineer/ Drafter 1	EDD 1	\$90.12	\$93.81	\$97.66	\$101.67	\$105.83
Engineer/ Design Engineer/ Drafter 2	EDD 2	\$112.45	\$117.06	\$121.86	\$126.86	\$132.06
Engineer/ Design Engineer 3	EDD 3	\$131.56	\$136.95	\$142.57	\$148.41	\$154.50
Engineer/ Design Engineer 4	EDD 4	\$150.14	\$156.30	\$162.70	\$169.37	\$176.32
Engineer/ Design Engineer 5	EDD 5	\$177.56	\$184.84	\$192.42	\$200.31	\$208.52
Engineer 6	EDD 6	\$237.41	\$247.14	\$257.28	\$267.83	\$278.81
Engineer 7	EDD 7	\$263.68	\$274.49	\$285.75	\$297.46	\$309.66
Software Engineer 1	SWE 1	\$86.95	\$90.51	\$94.23	\$98.09	\$102.11
Software Engineer 2	SWE 2	\$101.13	\$105.28	\$109.59	\$114.09	\$118.76
Software Engineer 3	SWE 3	\$115.71	\$120.45	\$125.39	\$130.53	\$135.89
Software Engineer 4	SWE 4	\$152.62	\$158.88	\$165.39	\$172.17	\$179.23
Software Engineer 5	SWE 5	\$162.24	\$168.89	\$175.82	\$183.02	\$190.53
Software Engineer 6	SWE 6	\$175.89	\$183.10	\$190.61	\$198.42	\$206.56
Software Engineer 7	SWE 7	\$237.41	\$247.14	\$257.28	\$267.83	\$278.81
Project Manager 1	PRJM 1	\$130.54	\$135.89	\$141.46	\$147.26	\$153.30
Project Manager 2	PRJM 2	\$158.52	\$165.02	\$171.79	\$178.83	\$186.16
Program Manager 1	PRGM 1	\$180.08	\$187.46	\$195.15	\$203.15	\$211.48
Program Manager 2	PRGM 2	\$229.25	\$238.65	\$248.43	\$258.62	\$269.22

Figure 2-1. API Site 5-Year Base Period Pricing per LBC.

Advatech Pacific's Government Site Rates						
Labor Bid Category (LBC)		Year 1 (2009)	Year 2 (2010)	Year 3 (2011)	Year 4 (2012)	Year 5 (2013)
Document Specialist 1	DOCS 1	\$59.55	\$61.99	\$64.53	\$67.18	\$69.93
Document Specialist 2	DOCS 2	\$68.58	\$71.39	\$74.32	\$77.37	\$80.54
Document Specialist 3	DOCS 3	\$86.81	\$90.37	\$94.07	\$97.93	\$101.95
Document Specialist 4	DOCS 4	\$102.25	\$106.44	\$110.81	\$115.35	\$120.08
Engineering/ Drafter Technician	EDD B	\$58.80	\$61.21	\$63.72	\$66.33	\$69.05
Engineer/ Design Engineer/ Drafter 1	EDD 1	\$75.18	\$78.26	\$81.47	\$84.81	\$88.29
Engineer/ Design Engineer/ Drafter 2	EDD 2	\$93.81	\$97.66	\$101.66	\$105.83	\$110.17
Engineer/ Design Engineer 3	EDD 3	\$109.75	\$114.25	\$118.93	\$123.81	\$128.89
Engineer/ Design Engineer 4	EDD 4	\$125.26	\$130.40	\$135.74	\$141.31	\$147.10
Engineer/ Design Engineer 5	EDD 5	\$148.10	\$154.17	\$160.49	\$167.07	\$173.92
Engineer 6	EDD 6	\$198.05	\$206.17	\$214.62	\$223.42	\$232.58
Engineer 7	EDD 7	\$219.97	\$228.99	\$238.38	\$248.15	\$258.32
Software Engineer 1	SWE 1	\$72.54	\$75.51	\$78.61	\$81.83	\$85.19
Software Engineer 2	SWE 2	\$84.37	\$87.83	\$91.43	\$95.18	\$99.08
Software Engineer 3	SWE 3	\$96.53	\$100.49	\$104.61	\$108.90	\$113.36
Software Engineer 4	SWE 4	\$127.33	\$132.55	\$137.99	\$143.64	\$149.53
Software Engineer 5	SWE 5	\$135.35	\$140.90	\$146.68	\$152.69	\$158.95
Software Engineer 6	SWE 6	\$146.74	\$152.76	\$159.02	\$165.54	\$172.33
Software Engineer 7	SWE 7	\$198.05	\$206.17	\$214.62	\$223.42	\$232.58
Project Manager 1	PRJM 1	\$108.90	\$113.36	\$118.01	\$122.85	\$127.89
Project Manager 2	PRJM 2	\$132.24	\$137.66	\$143.31	\$149.18	\$155.30
Program Manager 1	PRGM 1	\$150.23	\$156.39	\$162.80	\$169.48	\$176.42
Program Manager 2	PRGM 2	\$191.25	\$199.09	\$207.25	\$215.75	\$224.60

Figure 2-2. Government Site 5-Year Base Period Pricing per LBC.

2.1c GSA LABOR CATEGORIES & DEFINITIONS

This section provides a detailed position description for each proposed labor category. Descriptions include functional responsibilities, minimum years of experience, minimum educational/degree requirements, and any applicable training or certification requirements.

Educational degrees can be traded off for “demonstrated equivalent”. Demonstrated equivalent is defined as either substitution of an acceptable alternate discipline for a degree or equivalent related experience for a degree. For example, instead of a BS in Mechanical, Aerospace, or Electrical degree, a BS in Structural engineering may be substituted. Additionally, a four year equivalent amount of related aerospace engineering experience may be substituted in place of a BS in Aerospace degree. Figure 2-3 shows the defined “demonstrated equivalent” for degree levels on these LBC Descriptions.

Degree Level	Equivalent Related Experience (Years)
Associate Degree	2
Bachelor of Science	4
Master of Science	6
Doctor of Philosophy	8

Figure 2-3. Demonstrated Equivalents of Academic Degrees.

DOCUMENT SPECIALIST 1 (DOCS 1)

Functional Responsibility: Writes a variety of technical articles, reports, brochures, and/or manuals for documentation for a wide range of uses. May be responsible for coordinating the display of graphics and the production of the document. This category may prepare and/or maintain documentation pertaining to programming, systems operation and user documentation. Translate business specifications into user documentation. Plan, write, and maintain systems and user support documentation efforts, including online help screen. Use knowledge of current graphic design software to produce graphic art and visual materials for promotions, advertisements, films, packaging, and informative and instructional material through a variety of media outlets such as websites and CD-ROMs. Generate and manipulate graphic images, animations, sound, text and video into consolidated and seamless multimedia programs.

Must remain abreast of technological advances in the field and be able to identify areas of use in the organization. Has knowledge of commonly-used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Primary job functions do not typically require exercising independent judgment. Works under immediate supervision.

Minimum Education or Degree: Occupationally related BS degree, or demonstrated equivalent.

Minimum Years of Experience: 0 years of related experience without a BS degree.

Additional applicable training or certification: None

DOCUMENT SPECIALIST 2 (DOCS 2)

Functional Responsibility: Writes a variety of technical articles, reports, brochures, and/or manuals for documentation for a wide range of uses. May be responsible for coordinating the display of graphics and the production of the document. This category may prepare and/or maintain documentation pertaining to programming, systems operation and user documentation. Translate business specifications into user documentation. Plan, write, and maintain systems and user support documentation efforts, including online help screen. Use knowledge of current graphic design software to produce graphic art and visual materials for promotions, advertisements, films, packaging, and informative and instructional material through a variety of media outlets such as websites and CD-ROMs. Generate and manipulate graphic images, animations, sound, text and video into consolidated and seamless multimedia programs.

Must remain abreast of technological advances in the field and be able to identify areas of use in the organization. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. Performs a variety of tasks. Works under general supervision. A certain degree of creativity and latitude is required.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent.

Minimum Years of Experience: 5 years of related experience without a BS degree.

Additional applicable training or certification: None

DOCUMENT SPECIALIST 3 (DOCS 3)

Functional Responsibility: Writes a variety of technical articles, reports, brochures, and/or manuals for documentation for a wide range of uses. May be responsible for coordinating the display of graphics and the production of the document. This category may prepare and/or maintain documentation pertaining to programming, systems operation and user documentation. Translate business specifications into user documentation. Plan, write, and maintain systems and user support documentation efforts, including online help screen. Use knowledge of current graphic design software to produce graphic art and visual materials for promotions, advertisements, films, packaging, and informative and instructional material through a variety of media outlets such as websites and CD-ROMs. Generate and manipulate graphic images, animations, sound, text and video into consolidated and seamless multimedia programs.

Must remain abreast of technological advances in the field and be able to identify areas of use in the organization. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. May lead and direct the work of others. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent.

Minimum Years of Experience: 10 years of related experience without a BS degree.

Additional applicable training or certification: None

DOCUMENT SPECIALIST 4 (DOCS 4)

Functional Responsibility: Writes a variety of technical articles, reports, brochures, and/or manuals for documentation for a wide range of uses. May be responsible for coordinating the display of graphics and the production of the document. Familiar with a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. Leads and directs the work of others as needed. A wide degree of creativity and latitude is expected. Typically reports to a manager or head of a unit/department.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent.

Minimum Years of Experience: 15 years of related experience.

Additional applicable training or certification: None

ENGINEERING / DRAFTER TECHNICIAN (EDD B)

The EDD B Labor Bid Category consists of two Technical Service groups:

1. Engineering Technicians with an emphasis primarily in Electrical, Aerospace, Mechanical, Design, or Software.
2. Drafters

The following includes a description of capabilities, education and experience for this level of technical services, as provided by the EDD B Labor Bid Category, for each Technical Service group.

ENGINEERING TECHNICIAN B

Functional Responsibility: Assists all levels of engineers with tasks and assignments. Possesses knowledge of commonly used concepts, practices and procedures as applicable to their assigned tasks. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under general supervision.

Minimum Education or Degree: Associates degree in Engineering related discipline or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 0 years of related experience.

Additional applicable training or certification: None

DRAFTER B

Functional Responsibility: Prepares routine drafting projects, such as the preparation of various drawings of structures and equipment systems derived from layouts and sketches. Follows established technical specifications to prepare drawings and assists in design drafting. May also participate in designing special modifications to existing machinery, parts, or equipment. Consults with engineers regarding model accuracy, design, and drafting standards. Familiar with standard concepts, practices, and procedures within a particular field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. Works under general supervision. A certain degree of creativity and latitude is required.

Minimum Education or Degree: Occupationally related AS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 0 years of related experience.

Additional applicable training or certification: None

ENGINEER / DESIGN ENGINEER / DRAFTER 1 (EDD 1)

The EDD 1 Labor Bid Category consists of three Technical Service groups:

1. Engineers comprised primarily of Electrical, Aerospace, & Mechanical Engineers.
2. Design Engineers
3. Drafters

The following includes a description of capabilities, education and experience for this level of technical services, as provided by the EDD 1 Labor Bid Category, for each Technical Service group.

ENGINEER 1

Functional Responsibility: Designs, analyzes, develops, and tests aircraft, missiles, spacecraft, and launch vehicles. Evaluates, recommends, and implements test procedures, tools and strategies. Develops, maintains, & upgrades test plans and facilities for prototypes. Has knowledge of commonly-used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision. Primary job functions do not typically require exercising independent judgment.

Minimum Education or Degree: Occupationally related BS degree, or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 0

Additional applicable training or certification: None

DESIGN ENGINEER 1

Functional Responsibility: Perform entry-level design tasks such as design layouts and modeling. Supports investigation of customer requirements to help determine solutions. Has knowledge of commonly-used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision.

Minimum Education or Degree: Occupationally related BS degree, or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 0

Additional applicable training or certification: None

DRAFTER 1

Functional Responsibility: Prepares routine drafting projects, such as the preparation of various drawings of structures and equipment systems derived from layouts and sketches. Follows established technical specifications to prepare drawings and assists in design drafting. Consults with engineers regarding model accuracy, design, and drafting standards. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. May lead and direct the work of others. A certain degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related Associates degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 2 years related experience.

Additional applicable training or certification: None

ENGINEER / DESIGN ENGINEER / DRAFTER 2 (EDD 2)

The EDD 2 Labor Bid Category consists of three Technical Service groups:

1. Engineers comprised primarily of Electrical, Aerospace, & Mechanical Engineers.
2. Design Engineers
3. Drafters

The following includes a description of capabilities, education and experience for this level of technical services, as provided by the EDD 2 Labor Bid Category, for each Technical Service group.

ENGINEER 2

Functional Responsibility: Able to perform engineering design evaluations. Possesses working level proficiency. Designs, analyzes, develops, and tests aircraft, missiles, spacecraft, and launch vehicles. This includes all aspects of component, subsystem, and system level design. Evaluates, recommends, and implements test procedures, tools and strategies. Develops, maintains, and upgrades test plans and facilities for prototypes. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. Performs a variety of tasks. Works under general supervision. A certain degree of creativity and latitude is required.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 2 years of related experience.

Additional applicable training or certification: None

DESIGN ENGINEER 2

Functional Responsibility: Designs new products and makes improvements to existing products. May evaluate products, parts, or processes for cost efficiency and reliability. Works with other members of the engineering staff to ensure that production is completed in a timely manner. Familiar with standard concepts, practices, and procedures within a particular field.

Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. Works under general supervision. A certain degree of creativity and latitude is required.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum, and or Years of Experience: 2 years of related experience.

Additional applicable training or certification: None

DRAFTER 2

Functional Responsibility: Perform advanced drafting tasks such as producing complex detail drawings, large assembly drawings, and complex engineering changes. Analyzes data and reviews drawings and plans to ensure quality of work and project feasibility. May plan, assign, and review the work of drafters and other employees working on design projects. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals.

Minimum Education or Degree: Occupationally related AS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 5 years of related experience.

Additional applicable training or certification: None

ENGINEER / DESIGN ENGINEER 3 (EDD 3)

The EDD 3 Labor Bid Category consists of two Technical Service groups:

1. Engineers comprised primarily of Electrical, Aerospace, & Mechanical Engineers.
2. Design Engineers

The following includes a description of capabilities, education and experience for this level of technical services, as provided by the EDD 3 Labor Bid Category, for each Technical Service group.

ENGINEER 3

Functional Responsibility: Designs, analyzes, develops, and tests aircraft, missiles, spacecraft, and launch vehicles. This includes all aspects of component, subsystem, and system level design. Evaluates, recommends, and implements test procedures, tools and strategies. Develops, maintains, and upgrades test plans and facilities for prototypes. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 4 years of related experience.

Additional applicable training or certification: None

DESIGN ENGINEER 3

Functional Responsibility: Designs new products and makes improvements to existing products. May evaluate products, parts, or processes for cost efficiency and reliability and ensure project completion. Works with other members of the engineering staff to ensure that production is completed in a timely manner. Familiar with a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 4 years of related experience.

Additional applicable training or certification: None

ENGINEER / DESIGN ENGINEER 4 (EDD 4)

The EDD 4 Labor Bid Category consists of two Technical Service groups:

1. Engineers comprised primarily of Electrical, Aerospace, & Mechanical Engineers.
2. Design Engineers

The following includes a description of capabilities, education and experience for this level of technical services, as provided by the EDD 4 Labor Bid Category, for each Technical Service group.

ENGINEER 4

Functional Responsibility: Able to provide expert judgment and analysis for the design, development and implementation of technical products and systems. Able to resolve highly complex technical issues and conduct advanced research. Familiar with a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. May lead and direct the work of others. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 6 years of related experience.

Additional applicable training or certification: None

DESIGN ENGINEER 4

Functional Responsibility: Able to provide expert judgment and analysis for the design, development and implementation of technical products and systems. Able to resolve highly complex technical issues and conduct advanced research. Works with other members of the engineering staff to ensure that production is completed in a timely manner. Familiar with a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. May lead and direct the work of others. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 6 years of related experience.

Additional applicable training or certification: None

ENGINEER / DESIGN ENGINEER 5 (EDD 5)

The EDD 5 Labor Bid Category consists of two Technical Service groups:

1. Engineers comprised primarily of Electrical, Aerospace, & Mechanical Engineers.
2. Design Engineers

The following includes a description of capabilities, education and experience for this level of technical services, as provided by the EDD 5 Labor Bid Category, for each Technical Service group.

ENGINEER 5

Functional Responsibility: Designs, analyzes, develops, and tests aircraft, missiles, spacecraft, and launch vehicles. This includes all aspects of component, subsystem, and system level design. Evaluates, recommends, and implements test procedures, tools and strategies. Develops, maintains, and upgrades test plans and facilities for prototypes. Familiar with a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. May leads and direct the work of others. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 8 years of related experience.

Additional applicable training or certification: None

DESIGN ENGINEER 5

Functional Responsibility: May manage a team of designers and drafters that use computer aided design (CAD) for products. Ensures the drawings and designs are completed on time and adhere to the established specifications and standards. May prepare project schedules, bids, or proposals. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. Leads and directs the work of others. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 8 years of related experience.

Additional applicable training or certification: None

ENGINEER 6 (EDD 6)

The EDD 6 Labor Bid Category consists of one Technical Service group:

1. Engineers comprised primarily of Electrical, Aerospace, & Mechanical Engineers.

Functional Responsibility: Researches new products, product enhancements, and product redesign that align the product development function with the goals of the organization. Evaluates the potential and practicality of products in development. Demonstrates expertise in a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. Leads and directs the work of others. A wide degree of creativity and latitude is expected. An engineer at this level is considered a subject matter expert.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 12 years of related experience.

Additional applicable training or certification: None

ENGINEER 7 (EDD 7)

The EDD 7 Labor Bid Category consists of one Technical Service group:

1. Engineers comprised primarily of Electrical, Aerospace, & Mechanical Engineers.

Functional Responsibility: Directs and oversees research and development policies, objectives, and initiatives. Maintains an organization's competitive position and profitability by formulating research and development programs. Familiar with a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. Leads and directs the work of others. A wide degree of creativity and latitude is expected. An engineer at this level is considered a subject matter expert.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 15 years of related experience.

Additional applicable training or certification: None

SOFTWARE ENGINEER 1 (SWE 1)

Functional Responsibility: Designs, modifies, develops, writes and implements software programming applications. Supports and/or installs software applications/operating systems. Participates in the testing process through test review and analysis, test witnessing and certification of software. Has knowledge of commonly-used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision. Primary job functions do not typically require exercising independent judgment.

Minimum Education or Degree: Occupationally related BS degree, or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 0

Additional applicable training or certification: None

SOFTWARE ENGINEER 2 (SWE 2)

Functional Responsibility: Designs, modifies, develops, writes and implements software programming applications. Supports and/or installs software applications/operating systems. Participates in the testing process through test review and analysis, test witnessing and certification of software. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. Performs a variety of tasks. A certain degree of creativity and latitude is required.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 2 years of related experience.

Additional applicable training or certification: None

SOFTWARE ENGINEER 3 (SWE 3)

Functional Responsibility: Designs, modifies, develops, writes and implements software programming applications. Supports and/or installs software applications/operating systems. Participates in the testing process through test review and analysis, test witnessing and certification of software. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. May lead and direct the work of others. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 4 years of related experience.

Additional applicable training or certification: None

SOFTWARE ENGINEER 4 (SWE 4)

Functional Responsibility: Designs, modifies, develops, writes and implements software programming applications. Supports and/or installs software applications/operating systems. Participates in the testing process through test review and analysis, test witnessing and certification of software. Designs, plans, and may coordinate work teams. Provides technical support to project team members. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 6 years of related experience.

Additional applicable training or certification: None

SOFTWARE ENGINEER 5 (SWE 5)

Functional Responsibility: Designs, modifies, develops, writes and implements software programming applications/operating systems. Also, coordinates work teams. Provides technical support to project team members. Demonstrates expertise in a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. May provide consultation on complex projects. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 8 years of related experience.

Additional applicable training or certification: None

SOFTWARE ENGINEER 6 (SWE 6)

Functional Responsibility: Manages a team of software engineers to architect and design enterprise software products/operating systems. Writes product requirement documents, implements and tracks development timelines, negotiates feature sets with the development leads and product. Knowledge of e-commerce infrastructure, customer relationship management, data warehousing, and business intelligence. Relies on experience and judgment to plan and accomplish goals. A software engineer at this level is considered a subject matter expert.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 12 years of related experience.

Additional applicable training or certification: Must have thorough knowledge of a variety of languages such as Java and C++.

SOFTWARE ENGINEER 7 (SWE 7)

Functional Responsibility: Researches new products, product enhancements, and product redesign that align the product development function with the goals of the organization. Evaluates the potential and practicality of products in development. Demonstrates expertise in a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. Leads and directs the work of others. A wide degree of creativity and latitude is expected. A software engineer at this level is considered a subject matter expert.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum, and/or Years of Experience: 15 years of related experience.

Additional applicable training or certification: Must have thorough knowledge of a variety of languages such as Java and C++.

PROJECT MANAGER 1 (PRJM 1)

Functional Responsibility: Responsible for the coordination and completion of projects. Oversees all aspects of projects. Sets deadlines, assigns responsibilities, and monitors and summarizes progress of project. Prepares reports for upper management regarding status of project. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. Leads and directs the work of others. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 5 years of related experience.

Additional applicable training or certification: None

PROJECT MANAGER 2 (PRJM 2)

Functional Responsibility: Responsible for the coordination and completion of projects. Oversees all aspects of projects, including project budget. Sets deadlines, assigns responsibilities, and monitors and summarizes progress of project. Evaluates and resolves technical feasibility, design optimization, and production issues. Prepares reports for upper management regarding status of project. Assist with the identification and development of new products. Familiar with a variety of the field's concepts, practices, and procedures. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of tasks. Leads and directs the work of others. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 8 years of related experience.

Additional applicable training or certification: None

PROGRAM MANAGER 1 (PRGM 1)

Functional Responsibility: Coordinates and oversees the scheduling, proposal pricing, project budgets, and technical performance of company programs. Assists in the negotiation of contracts and contractual changes and coordinating preparations of proposals, plans, specifications, and financial conditions of contracts. Assists in developing new business and expansion of existing product line(s). Ensures adherence to plans and schedules develops solutions to program problems, and directs work of incumbents assigned to program from

various departments. Ensures projects are completed on time and within budget. Acts as advisor to program team regarding projects, tasks, and operations. Familiar with standard concepts, practices, and procedures within a particular field. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of complex tasks. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 10 years of related experience.

Additional applicable training or certification: None

PROGRAM MANAGER 2 (PRGM 2)

Functional Responsibility: Coordinates and oversees the scheduling, proposal pricing, project budgets, and technical performance of company programs. Takes lead role in the Negotiation of contracts and contractual changes, and coordinating preparations of proposals, plans, specifications, and financial conditions of contracts. Develops new business and expands existing product line(s). Ensures adherence to plans and schedules, develops solutions to program problems, and directs work of incumbents assigned to program from various departments. Ensures projects are completed on time and within budget. Acts as advisor to program team regarding projects, tasks, and operations. Familiar with standard concepts, practices, and procedures as applicable to a wide variety of related fields. Relies on extensive experience and judgment to plan and accomplish goals. Performs a variety of complex tasks. A wide degree of creativity and latitude is expected.

Minimum Education or Degree: Occupationally related BS degree or demonstrated equivalent and Professional Engineering related certification.

Minimum Years of Experience: 15 years of related experience.

Additional applicable training or certification: None

- 2.2 Maximum Order:** \$1,000,000
- 2.3 Minimum Order:** \$100.00
- 2.4 Geographic Coverage (delivery area):** All Domestic locations (the 48 contiguous states, Alaska, Hawaii, Puerto Rico, Washington, DC, and U.S. territories; as well as Overseas delivery are provided.
- 2.5 Point(s) of Production:** Determined by individual task order.
- 2.6 Discounts from List Prices or Statement of Net Price:** Prices shown herein are government net prices (discount deducted).
- 2.7 Quantity Discounts:** Negotiated at task order level.
- 2.8 Prompt Payment Terms:** 0.25%, 10 Days Net 30
- 2.9a Notification that Government Purchase Cards are Accepted or Not Accepted Above the Micropurchase threshold:** Government credit cards are accepted for orders above the micropurchase threshold.
- 2.9b Notification that Government Purchase Cards are Accepted Below the Miropurchase Threshold:** Government credit cards are accepted for orders at or below the micropurchase threshold.
- 2.10 Foreign Items (list items by country of origin):** Not Applicable.
- 2.11a Time of Delivery:** Negotiated at task order level.
- 2.11b Expedited Delivery (Items available for expected delivery are noted in this price list):** Negotiated at the task order level.
- 2.11c Overnight and 2-Day Delivery:** Negotiated at the task order level.
- 2.11d Urgent Requirements:** Negotiated at the task order level.
- 2.12 F.O.B. Point:** Destination
- 2.13a Ordering Address & Information:**
- Advatech Pacific, Inc
ATTN: GSA PES ORDER
560 E. Hospitality Lane #400
San Bernardino, CA 92408
- Phone: (909) 307-6218
Fax: (909) 798-9368
Email: GSAorder@advatechpacific.com

- 2.13b Ordering Procedures:** For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's), and a sample BPA can be found at the GSA/FSS Schedule homepage (fss.gsa.gov/schedules).
- 2.14 Payment Address:**
Advatech Pacific, Inc
ATTN: GSA PES ORDER
560 E. Hospitality Lane #400
San Bernardino, CA 92408
- 2.15 Warranty Provision:** Advatech Pacific warrants that its staff personal will meet all qualifications for LBCs, and the associated LBC descriptions, used on the delivery orders approved by the customer. In the case of failure of a deliverable, Advatech Pacific or the customer, after responsibility is determined by mutual investigation and evaluation, shall bear all costs associated with the claim.
- 2.16 Export Packing Charges:** Not Applicable.
- 2.17 Terms and Conditions of Government Purchase Card Acceptance (any thresholds above the micropurchase level):** No special concessions granted.
- 2.18 Terms and Conditions of Rental, Maintenance, and Repair:** Not Applicable.
- 2.19 Terms and Conditions of Installation:** Not Applicable.
- 2.20a Terms and Conditions of Repair Parts Indicating Date of Parts Price and Any Discounts from List Prices:** Not Applicable.
- 2.20b Terms and Conditions for any Other Services:** Not Applicable.
- 2.21 List of Service and Distribution Points:** Not Applicable.
- 2.22 List of Participating Dealers:** Not Applicable.
- 2.23 Preventive Maintenance:** Not Applicable.
- 2.24 Special Attributes Such as Environmental Attributes (e.g., Recycled Content, Energy Efficiency or Reduced Pollutants):** Not Applicable.
- 2.25 Data Universal Number System (DUNS) Number:** 05-9385711
- 2.26 Notification Regarding Registration in Central Contractor Registration (CCR) Database:** Advatech Pacific, Inc. has registered with the Central Contractor Registration Database.