

J.1(b) ATTACHMENT 1- COST MODEL

| POSITION TITLE | WYE | REQUIREMENTS | ESTIMATED ODC | CORE ELEMENT |
|------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Sr Project Manager | 1.00 | Min 10 years experience managing projects | \$ 202,500.00 | 1 -Space Biology |
| Flight Payload Manager | 2.00 | Min 5 yrs experience with biological payloads | | 1 -Space Biology |
| Project Scientist | 4.20 | Ph.D - Min 5 yrs experience with biological payloads | | 1 -Space Biology |
| Support Scientist | 2.80 | B.S./M.S. - Min 2 yrs lab experience | | 1 -Space Biology |
| Operations Specialist | 1.50 | B.S./M.S. -Min 5 yrs experience with flight operations | | 1 -Space Biology |
| Operations Engineer | 1.60 | B.S./M.S. -Min 5 yrs experience with flight projects | | 1 -Space Biology |
| Ground Operations | 1.20 | B.S./M.S. -Project coordination and organization skills | | 1 -Space Biology |
| Data System and Comm | 0.60 | Min. 2 yrs experience with flight projects | | 1 -Space Biology |
| Crew Training | 0.80 | Min. 2 yrs experience with flight projects | | 1 -Space Biology |
| Schedule | 0.70 | Min. 2 yrs experience with flight projects | | 1 -Space Biology |
| Project Engineer | 1.20 | Min. 2 yrs experience with flight projects | | 1 -Space Biology |
| Technician | 0.50 | Min. 2 yrs experience with flight projects | | 1 -Space Biology |
| Russion Interpreter | 0.30 | Fluency with Russian language and prototcol | | 1 -Space Biology |
| Grant Administrator | 0.60 | Min 2 yrs experience with grants administration | | 1 -Space Biology |
| Education and Public Outreach Specialist | 0.30 | Min. 2 yrs experience with techncial writing, press releases, websites, and development of marketing materials | | 1 -Space Biology |
| Administrative & Technical Support II | 1.00 | BA/BS; min. 2 years relevant experience | | 2 - Space Bioscience Div |
| Web designer, Level 1 | 0.10 | BA/BS; min. 2 years relevant experience | | 2 - Space Bioscience Div |
| Experiment Support Scientist/Engineeer | 1.75 | BA/BS; min. 10 years relevant experience | | 2 - Space Bioscience Div |
| Project Scientist | 1.75 | PhD; min. 10 years relevant experience in space biological payloads. | | 2 - Space Bioscience Div |
| Administrative & Technical Support II | 1.00 | BA/BS min 2 years relevant experience | \$ 9,500.00 | 3 -Kepler |

ESTIMATED CORE FOR FIRST YEAR

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| Project Systems Engineer | 1.00 | BA/BS; min. 15 years relevant experience with both flight systems and ground data systems | | 3 - Kepler |
| Graphics Designer | 0.60 | BA/BS 3 years experience. Support video animation, photographic artwork and presentation graphics for scientific presentations. Experience with Creative Suite, Adobe Illustrator | | 3 - Kepler |
| Software Engineer | 7.00 | BA/BS; min. 5 years relevant experience with familiarity with C, JAVA. Experience managing databases and large file manipulation. | | 3-Kepler |
| Contract Project Lead | 0.10 | 15 years related experience managing science operations | \$ 726,000.00 | 4 - NAI |
| Science Project Lead | 1.00 | PhD in related science field; 15 years experience | | 4 - NAI |
| IT Lead | 0.75 | BS in related field; 7 years experience | | 4 - NAI |
| Lead Web Applications Developer | 1.00 | BS in related field and 7 years experience | | 4 - NAI |
| Senior Software Engineer | 1.00 | BS in related field and 7 years experience | | 4 - NAI |
| Collaboration Manager | 0.75 | Bachelor's and 10 years of experience | | 4 - NAI |
| Web Editor | 0.25 | 5 years experience | | 4 - NAI |
| Senior Graphics Designer | 0.50 | BA and 5 years of experience with science publications | | 4 - NAI |
| Collaborative Technologies Specialist | 1.00 | Bachelor's and 3 years of experience | | 4 - NAI |
| Administrative & Technical Support II | 1.00 | Minimum of 2 years college and 5 years of experience | | 4 - NAI |
| Education & Public Outreach Specialist | 0.75 | BS in related science and 5 years experience in EPO | | 4 - NAI |
| Graphic Artist/Author | 0.25 | 3+ years of experience in writing and publishing science for a general audience | | 4 - NAI |
| Chief of Staff | 1.00 | Minimum 10 years support work in Aerospace, project management, etc. | \$ 525,000.00 | 5 - NLSI |
| Associate Institute Director | 1.00 | M.S./M.A. minimum; minimum 10 years experience in Aerospace | | 5 - NLSI |
| Outreach Director | 1.00 | B.S./B.A., minimum 10 years experience in outreach or teaching | | 5 - NLSI |
| Outreach Deputy | 0.50 | Minimum 5 years experience in outreach/teaching | | 5 - NLSI |
| Staff Scientist | 1.00 | M.S./M.A. minimum; minimum 5 years experience in Aerospace or science institutions/science management | | 5 - NLSI |
| Web master | 1.00 | B.S./B.A., minimum 5 years experience in web design | | 5 - NLSI |
| Web and IT system support | 1.00 | Minimum 3 years experience in support of IT infrastructure and web design | | 5 - NLSI |
| Collaborative Systems lead | 0.50 | Minimum 5 years experience in design and operation of video/collaboration systems | | 5 - NLSI |
| IT Support | 0.10 | Advanced DRUPAL and PHP programming; Intermediate Database programming; Website development | \$5,000 | 6 - NARI |
| Virtual Communications & Collaborations Support | 0.10 | Advanced Video coordinator, Video Editor, and Multimedia Specialist; Technical, social and human factors skills to enable collaborative aeronautics research between geographically dispersed teams | | 6 - NARI |

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| Administrative & Technical Support I | 0.20 | High school graduate with MS Office and Internet skills; min 2 years relevant experience | | 6 - NARI |
| Project Management Support analyst | 3.00 | BA/BS, min 2 yrs relevant experience | \$ 53,000.00 | 7 - Aeronautics Projects |
| Senior Education & Public Outreach Specialist | 1.00 | BA/BS; min. 10 years relevant experience in all aspects of education, public affairs, outreach; expertise in booth design and fabrication and staffing, technical brochure/poster/video production; expertise in large event planning & operations; excellent communications skills; expertise in social media | | 7 - Aeronautics Projects |
| Content Developer | 1.00 | BA/BS; min. 2 years relevant experience Bachelor's degree in science or English with emphasis on writing; minimum two years of scientific and/or educational writing experience; extensive computer skills and software knowledge; preferably Mac-based hardware; exceptional communication skills. | \$ 3,500.00 | 8 - Strategic Mgmt |
| Web Master | 1.00 | BA/BS min. Three to five years web development experience. Work experience in web streaming, web page management, web data collection, web bulletin board management, data archiving. Knowledge of programming and course project management, graphics and multimedia programs and ability to integrate streaming media, live web casts and emerging technologies. Possess skill using a cache of software, including graphics and internet/website development tools and other freeware and shareware programs that assist in producing electronic graphics optimized for the internet and excellent writing skills. Must have knowledge of Sequential Query Language (SQL), PDP 11, C++, front end data engines data storage methodologies, and PII restrictions and IT security regulations. Must demonstrate the ability to analyze, plan, make decisions, respond to changes, and possess excellent writing skills. | | 8 - Strategic Mgmt |
| Proposal Technical Writer | 2.50 | BA/BS min 3- 5 years experience. Compose and edit material for proposals and other technical documents, containing scientific and technical information in areas that require knowledge of engineering, mathematics, physics, and life science. Experience with InDesign and/or Microsoft Word or other publishing software is desired. | \$ 3,500.00 | 9 - NOC |

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| Technical Editing and Graphics/Content Developer | 1.00 | BA/BS min 3-5 yrs experience. Create content for new products including proposals, websites, business documents, brochures, etc. Responsible for the creation of Science, Technology, Engineering, and Math related materials formatted for use in proposals. Experience with InDesign and/or Microsoft Word and Adobe Illustrator is desired. | | 9 - NOC |
| Administrative & Technical Support II | 1.00 | BA/BS min 2 years relevant experience | | 9 - NOC |
| Project Management Support Analyst | 0.50 | BA/BS min 3 years of relevant experience. Assist in a line capacity in managing or directing, one or more programs, including appropriate supporting service organizations, when the paramount qualification requirement of the positions is management and executive knowledge, ability and when the position requires competence in a specialized subject-matter or functional area. Primarily responsible to provide professional project management support for the definition and documentation of project requirements, project plans, and project management processes. Also responsible for technical assistance in the preparation and evaluation of proposals submitted by vendors and/or potential partners of the project or program | | 9 - NOC |
| Historian | 0.70 | BA/BS; min. 2 years relevant experience | \$ 10,500.00 | 10 - History Office |
| Archivist | 0.75 | BA/BS; min. 2 years relevant experience | | 10 - History Office |
| WebMaster | 0.10 | 3- 5 years web development experience, work experience in web streaming, web page management, web data collection, web bulletin board management, data archiving. Knowledge of programming and course project management, graphics and multimedia programs and ability to integrate streaming media, live web casts and emerging technologies. Possess skill using a cache of software, including graphics and internet/website development tools and other freeware and shareware programs that assist in producing electronic graphics optimized for the internet and excellent writing skills. Must have knowledge of Sequential Query Language (SQL), PDP 11, C++, front end data engines data storage methodologies, and PII restrictions and IT security regulations. Must demonstrate the ability to analyze, plan, make decisions, respond to changes, and possess excellent writing skills. | | 10 - History Office |

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| Senior Staff Scientist | 1.00 | Ph.D.; min. 5 years relevant experience including knowledge of NASA procedures, experience with flight opportunities, and experience with strategic planning and management of technical work. | \$ - | 11 - OCS core |
| Administrative & Technical Support II | 0.50 | BA/BS or minimum of 2 years relevant work experience | \$ 10,000.00 | 12 - Human Research |
| Bioethicist | 0.20 | Requires a doctoral degree or equivalent experience in the field of bioethics, and at least five years of experience pertinent to the needs of NASA. Bioethicist must be able to classify protocols according to risk and provide an on-going ethics training for the Human Research Institutional Review Board members. Must also have experience publishing in scientific peer-reviewed journals and reviewing for such journals. | | 12 - Human Research |
| Administrative & Technical Support II | 1.75 | BA/BS; min. 2 years relevant experience; AS9100C Certified Auditor; Knowledgeable with the ISO-9001 and AS9100C Quality Standards; Knowledgeable with ARC's Policies and Procedures; Knowledgeable with the Ames Management System; Knowledgeable with the Continuous Improvement Action System; Knowledgeable with the ARC Problem Reporting and Corrective Action System | \$ 6,000.00 | 13 - Ames Management System Support |
| TOTAL WYE | 65.25 | | 1,554,500.00 | |