



Senior Science Research Specialist

Salary Grade: 19

Item Number: PHILSAB-SRSRS-11-2020

Division: Spacecraft Mechanical and Autonomous Systems Development Division

Minimum Qualification Standards:

Education: Bachelor's degree relevant to the job

Experience: 2 years of relevant experience

Training: 8 hours of relevant training

Eligibility: Career Service Professional / Second Level Eligibility

Duties and Responsibilities:

- 1) Under general supervision, assist in the direction, supervision, and programming of activities under the Division with focus on spacecraft structure and mechanical systems;
- 2) Plan and assist in generating test procedures for autonomous and space flight systems and/or its integration into spacecraft when applicable;
- 3) Generate and review the design of a spacecraft's structural, mechanical, autonomous and space flight systems; and provide recommendations accordingly;
- 4) Support in assessing, verifying and validating a spacecraft's structural and mechanical systems in terms of its readiness for assembly, integration and testing as well as for flight mission and operation, likewise initiate technical publications and patent applications whenever applicable;
- 5) Support in establishing physical properties and performance evaluation workflow for the verification and validation of spacecraft structural and mechanical systems;
- 6) Ensure the correctness of the technical specifications of goods and services for procurement and/or manufacturing requirements;
- 7) Attend seminars, symposia and other structured gatherings related to advanced space S&T and other areas of concern related to development; and
- 8) Coordinate with other researchers in the agency in programming regular activities to maximize data gathering, storage, retrieval capability;
- 9) Represent the Bureau in meetings, negotiations, conferences, seminars and other intersectoral or interagency cooperative efforts for matters that can be resolved at his/her level;
- 10) Evaluate performances of subordinates and provide guidance for their development and motivation as well as apply disciplinary measures as necessary; and
- 11) Perform other duties of a regular or special nature as may be assigned from time to time.

Applicants who have all or any of the following background are encouraged to apply:

Educational Background:

- Bachelor's degree in Engineering or Sciences such as in Aerospace Engineering, Mechanical Engineering, or other allied fields

Experience:

- Experience in 3D modeling and 2D technical drawing generation using a CAD software, preferably SolidWorks
- Experience in Thermal and Radiation Analysis softwares, preferably MSC, ANSYS, Thermal Desktop, FASTRAD and/or Systema Thermica
- Familiarity with thermal testing and manufacturing processes
- Relevant experience in physical property and performance evaluation processes such

as tensile testing and vibration testing

Applicants who have all or any of the following background are encouraged to apply:

Training Background:

- Relevant training in 3D modeling and technical drawing generation
- Relevant training in physical property and performance evaluation processes

Competencies:

- Proactive and willing to take the lead to accomplish tasks and meet goals and objectives in a timely manner.
- Thorough, pays close attention to detail, and strives to achieve accuracy and consistency in all tasks.
- Develops and maintains positive work relationships with others.
- Must have effective organizational skills and be able to multitask and work under pressure.
- Must be capable of exercising engineering creativity, resourcefulness, and practicality in approaching tasks.
- Receptive in being mentored by more senior personnel and capable of mentoring junior colleagues in spacecraft systems development
- Enthusiastic towards the advancement of space technology in the Philippines



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