

Materials and Processes (M&P) Consulting Engineer – Job Posting

Company Description

MTech Engineering Services, LLC is an engineering consulting firm specializing in composite materials and processes (M&P) within the aerospace industry. Our services include expert support in material characterization and testing, process development and control, nondestructive inspection, manufacturing implementation, training, and FAA certification. We provide comprehensive consulting and execution services to inform engineering decisions and drive certification strategies.

Role Description

This is a full-time, remote position for an M&P Consulting Engineer. Preference is given to candidates based in Minnesota (MN) or Washington (WA) due to administrative and HR compliance considerations, though applicants from other states may be considered on a case-by-case basis.

The M&P Consulting Engineer will support client engagements through hands-on technical execution, documentation, and communication across the full project lifecycle. The ideal candidate works effectively with limited supervision, collaborates well with multidisciplinary teams, and can integrate seamlessly into both small and large engineering organizations.

Periodic travel to client sites, suppliers, test labs, and company meetings is required (up to ~30%).

Example Responsibilities

- Apply first-principles and fundamental Materials Science and Engineering knowledge to composite material and process development, testing, inspection, and certification activities.
- Generate and review material and process specifications, test plans, work instructions, and test reports for both technical rigor and clear technical writing.
- Conduct statistical analysis of test data and generate material allowables.
- Support fabrication and execution of materials characterization testing.
- Support nondestructive inspection of composite and metallic materials, including probability-of-detection studies and acceptable defect limit substantiation.
- Support process control initiatives to develop and maintain stable and reliable fabrication processes.

- Research emerging composite materials and technologies; perform trade studies and develop technical recommendations.
- Develop training materials and support knowledge transfer to clients and internal teams.
- Assist with implementation of recommended materials and processes within manufacturing environments.

Qualifications

Required

- 3+ years of experience with a broad range of aerospace materials and processes.
- Familiarity with industry standards such as ASTM, ASM, CMH-17, NASA, IEEE, AIAA, and military specifications.
- Experience with composite and metallic nondestructive inspection methods.
- Hands-on experience with composite materials characterization methods and equipment.
- Demonstrated ability to diagnose and solve M&P-related issues in test lab and manufacturing settings.
- Ability to work independently and collaboratively in both remote and in-person environments.
- Strong IT proficiency and comfort managing multiple digital work interfaces.
- Proactive communication style with timely follow-up and efficient task execution.
- Strong interpersonal skills and ability to work across multidisciplinary teams.
- Excellent organizational skills, attention to detail, and ability to produce high-quality written reports and presentations.
- Bachelor's degree in Materials Science & Engineering or a related engineering field.

Desired

- Experience qualifying composite materials and related processes for aerospace applications.
- Proficiency with statistical tools/software such as Minitab, JMP, R, or equivalent.
- Knowledge of FAA aircraft certification requirements for 14 CFR Part 23, 14 CFR Part 25, and military qualification pathways.
- Master's degree in Materials Science & Engineering or a related engineering field.

Benefits

MTech Engineering Services offers a flexible, remote-first work environment with competitive benefits, including:

- 401(k) retirement plan with company match
- Healthcare stipend to support individual medical coverage
- Technology stipend to support home office setup, internet, and work-related equipment
- Paid vacation and company holidays
- Flexible scheduling consistent with project needs and deliverables

Apply or inquire at: info@mtechengservices.com