

*Headquartered in Hampton, Virginia, Analytical Mechanics Associates, Inc., (AMA) also has operations in Denver, Colorado; Huntsville, Alabama; Dallas, Texas; and Santa Clara, California. We offer a competitive salary and attractive benefits package. Our website describes our corporate values and how they apply to the professional success and growth of our employees.*

*AMA is proud of our customer relationships, our distinct and dynamic work environment, and our employees' career satisfaction. We are a small business specializing in aerospace engineering, business analytics, information technology, and visualization solutions. AMA combines the best of engineering and mathematics capabilities with the latest in information technologies and visualization to build creative solutions. Visit us at <http://www.ama-inc.com> for an overview of our current projects and career opportunities*

The NEAR Division of AMA is seeking to add a **Control Systems Engineer** to our team in Santa Clara, California.

**Job Description:**

The candidate will be responsible for the development of control systems and custom electronics for use with advanced aerospace vehicles and systems. The position will involve the development and evaluation of control algorithms, modeling and simulation codes, and operating scripts. Responsibilities include the design, fabrication, and testing of prototype and production circuit boards and electro-mechanical interfaces. The applicant will be responsible for selecting and integrating sensors, actuators, processors, and related electronics. The position involves systems engineering tasks such as requirements development, trade studies, and cost, schedule, and risk assessment.

Because the NEAR Division of AMA is a small office, the successful candidate will be expected to expand their knowledge base to take on new roles and responsibilities as the need arises. The ability to multi-task between multiple, unrelated projects will help keep you sane. Candidates with capabilities in proposal writing and business development support are desired.

**Job duties include:**

- Development of all facets of aerospace control systems
- Development and evaluation of control algorithms, modeling and simulation codes, and operating scripts
- Electro-mechanical hardware design, fabrication, and testing
- Selection and integration of sensors, actuators, processors, and related electronics
- Support of wind-tunnel and flight tests
- Generation of reports, presentations and other documentation
- Project management including cost and schedule tracking
- Interaction with customers

## **Education and Qualifications:**

- The position requires a Master's degree in electrical, aerospace, or mechanical engineering. Advanced degrees are a plus, and strong candidates with Bachelor's degrees will be considered.
- Proficiency in Matlab, Simulink, and C++ (CAD skills are a plus)
- Ability to design, fabricate, and test custom circuit boards
- Ability to design, fabricate, and integrate electro-mechanical components
- Introductory knowledge of aerodynamics is a plus
- Ability to support the division's IT infrastructure is a plus
- Ability to communicate clearly and concisely with others outside your field of expertise
- Ability to work independently
- Strong interpersonal skills
- Ability to integrate and lead small teams
- Excellent written and oral communication skills
- Ability to quickly adapt to dynamic work requirements and learn new disciplines
- Willingness to relocate to the San Francisco Bay area

The work is ITAR controlled - therefore, only US citizens or US permanent residents can be considered.

**AMA is an Equal Opportunity Employer**

Send resumes to: [jobs@ama-inc.com](mailto:jobs@ama-inc.com)    Subj: **Control Systems Engineer**