

Seeking Scientists and Engineering Professionals to Mentor Scholars

Washington Aerospace Scholars (WAS) is seeking engineering professionals interested in working with a team of high school juniors during a summer residency hosted by the Museum of Flight. Interested engineers will mentor students as they design a human mission to Mars. Mentors are supported by university students and professional teachers. We are seeking engineers to support one of the four weeks of summer residencies.

Overview

The goal of Washington Aerospace Scholars is to encourage the scholars to study science, technology, engineering and math (STEM) by giving them an in-depth view of what careers in those fields are really like. Mentors' provide guidance and advice about their own professional experiences which can help scholars decide to pursue STEM careers.

The entire residency revolves around the design of a human mission to Mars. Prior to arriving, these high school juniors will have spent six months working with a NASA curriculum to provide them with the context necessary to succeed with the tasks. During the residency the mentors facilitate a team project with assistance from university students and certified educators.

Scholars are divided into four teams for the residency. Each team will be mentored by one professional engineer. The team projects will be an in-depth review of one of the following topics in Mars exploration:

- **Getting There and Back** - Why do we go? Where are we going? What are the risks? How do we go safely?
- **Living There** - How do we survive? What are the dangers? What are our physical and psychological needs?
- **Working There** - What is our mission? What do we need? How will we work together?
- **Mission Integration** - How do integrate to accomplish the mission parameters and overall goals?

Mentor Time Commitment

Although the student residency begins on Sunday at 12pm, mentors work with their team Monday-Friday mornings from 8am to 12pm, for a total of 20 hours. Attendance at the student orientation on Sunday is optional, but greatly encouraged. During the afternoons and evenings the scholars are chaperoned by teachers as they attend presentations, field trips, and events with their teams. Mentors are welcome to attend these as their schedules permit.

Summer Session Dates

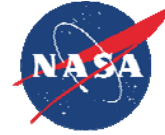
- Week 1 - June 21-25, 2009**
- Week 2 - June 28- July 3, 2009**
- Week 3 - July 12-17, 2009**
- Week 4 - July 19-24, 2009**

Mentor Responsibilities

- Attend a one-hour orientation session.
- Provide a short professional biography and photo.
- Become acquainted with team members via email.
- Participate in the summer residency during team project work time, presentations, and other events as your schedule permits.
- Leadership of your team in a professional manner, including selection of team leadership and roles.
- Work in partnership with teachers and university students to facilitate student research, project design and presentation on a specific topic in Mars exploration (see above).
- Assist with team, individual and overall program evaluations.
- Follow-up with WAS students post-residency.

Mentor Application Deadline: March 27, 2009

Please direct questions/inquiries to:
Melissa Edwards, WAS Administrator
(206) 764-5866 medwards@museumofflight.org
www.museumofflight.org/washingtonaerospacescholars



Mentor Application Summer 2009
Application Deadline: March 27, 2009

Applicant Data

Name _____

Email Address _____

Home Phone (____) _____ Alternate/Cell Phone (____) _____

Workplace _____

Division/Program _____

Position/Title _____

Work Address _____

Work Address 2 _____

City _____ State _____ Zip _____

Work Phone (____) _____ Work Fax (____) _____

Supervisor's Name _____

Supervisor's Phone (____) _____

Hometown _____

Years of Experience in Current Field _____

College/University _____

Degree _____ Major _____

College/University _____

Degree _____ Major _____

College/University _____

Degree _____ Major _____



Special Skills (including languages spoken): _____

Statement of Interest Please briefly explain why you are interested in serving as a Summer Residency Mentor--you may attach a separate sheet, if necessary: _____

Program Preferences

Shirt Size: women's ____ men's ____

Special Dietary Needs: _____

Team Preference (please rank):

____ Getting There and Back ____ Living There
____ Working There ____ Mission Integration

Week Preference (please rank only weeks that you are available; leave others blank):

____ June 21-25, 2009 ____ July 12-17, 2009
____ June 28-July 3, 2009 ____ July 19-24, 2009

Please send completed applications by **March 27th** to:
Melissa Edwards, WAS Administrator

FAX:

(206)764-5707

US Mail:

The Museum of Flight
9404 E. Marginal Way South
Seattle, WA 98108-4097

Email:

medwards@museumofflight.org