



Marine Technology Society

- ← Founded in 1963
- ← Members from academia, government and industry
- ← Hosts several conferences annually
- ← Publishes journal & newsletter
- ← Technical committees
- ← Regional sections



MTS - San Diego Section



- ← Monthly meetings with speaker
- ← Electronic newsletter
- ← Science Fair awards
- ← High School ROV competitions
- ← Student model boat competition
- ← **Intern Program**

MTS Student Intern Program

- ← Six year history
- ← 100 student participants to date
- ← Open to **exceptional** high school juniors & seniors
- ← In public & private schools, county-wide
- ← Full-time, for six weeks
- ← Hosted by company or institution
- ← Paid \$1620 stipend



Past Hosts

- | | |
|----------------------------|-----------------------|
| ■ BAE Systems | ■ Merkel & Associates |
| ■ Biospherical Instruments | ■ Nautronix |
| ■ Kongsberg-Simrad | ■ Oceanering |
| ■ DeepSea Power & Light | ■ RD Instruments |
| ■ Diving Unlimited Intern. | ■ SAIC |
| ■ Fugro Pelagos | ■ Scripps Institution |
| ■ InterOcean Systems | ■ SeaBotix |
| ■ Survival Systems Intern. | ■ SeaCon Brantner |
| ■ Lockheed-Martin | ■ Sontek YSI |
| | ■ Sidus Solutions |

Participants:

- ← Corporate/host
- ← mentor
- ← student
- ← MTS

Each has **benefits** & **responsibilities**.

Benefits: Corporate/host

- ← community service
- ← recognition
 - * their own newsletter
 - * MTS newsletter
 - * name on flyer
 - * other newspapers
 - * Science Fair??
- ← quality work for little cost

Benefits: mentor

- ← community service
- ← recognition
 - * their own newsletter
 - * MTS newsletter
 - * name on flyer
 - * other newspapers
- ← being “energized” by a young person

Benefits: student

- ← hands on experience
- ← technical/career advice
- ← employment/workplace skills
- ← \$\$\$'s



Benefits: MTS

← **community service**

← **recognition**



Obligation/responsibilities:
Corporate/host

- ←1) find mentor...someone enthusiastic & good w/ kids
- ←2) pay stipend (\$1620)
- ←3) provide materials if necessary



Obligation/responsibilities: mentor

- ←1) introduce student to work environment
- ←2) teach proper work etiquette
- ←3) find MEANINGFUL projects, tasks, assignments for students that involve science, math, computers, etc.
- ←4) be available to answer questions related to the work, the profession, colleges, etc.
- ←5) have fun



Obligation/responsibilities: student

- ←1) work hard for a total of 240 hours (6 wks x 40 hrs/wk) at the direction of the mentor
- ←2) follow all rules required by the host
- ←3) make an extra effort to know the people in the workplace
- ←4) written/oral presentation at conclusion???
- ←5) letters of appreciation to host/mentor

Obligation/responsibilities: MTS

- ←1) recruiting of quality candidates from SD County high schools
 - * advertising thru school channels
 - * collecting applications
 - * screening applicants
 - * assist corps/hosts with selecting
- ←2) makes contacts to ensure “things are going well”
- ←3) arranges an awards dinner for all participants

“Targeted” students:

- ←at least 16 (work permits)
- ←going to be 11th, 12th
- ←**exceptional students....the BEST!!!**
- ←NOT hs grad
- ←insurance?
- ←ask about transportation

Timeline:

- ←**Jan 15**.....flyer/applic published at least 5 hosts/mentors ID'd
- ←**Feb 1**.....flyer/applic mailed and posted on website too
- ←**March 1**.....applications due/ application screening by committee
- ←**Ap 1 - June 15**.....corp's/hosts review applications /interviews/selection
- ←**July 1**.....internships begin

Past Student Projects

- ←Internet based research
- ←Web interface development
- ←Measurement of underwater light beam patterns
- ←GPS antenna design
- ←Collecting and running experiments in kelp beds off of La Jolla cove
- ←Drawing schematics in AutoCad
- ←Soldering together light arrays for video cameras on ROVs
- ←Quality testing, documenting, and writing tutorials
- ←And many more!!



Sponsorship Program

- ← For organizations who want to contribute but cannot host a student
- ← Contribute stipend for one or more students
- ← Host will be non-profit organization such as Scripps Institution of Oceanography



Past Sponsors

- ← **Impulse Enterprise**
- ← **MTS National**
- ← **MTS San Diego**
- ← **Ocean Sensors**
- ← **RD Instruments**
- ← **various individuals**