

## EACH WORK STATION CORRELATES TO MANY POTENTIAL CAREERS & INDUSTRIES

Please support Challenger's space mission program by sponsoring an individual work station. Upgrades include replacing switches, headsets, microphones, blood pressure devices, plexi-glass, glove box materials, robot parts, gauges and other upgrades to support Challenger's ongoing educational mission.



### SIMULATOR WORK STATIONS:



**COM—COMMUNICATION TEAM.** The integral link between Mission Control and the Spacecraft, responsible for sending all verbal messages, operates video cameras.

INDUSTRIES: INTERNET PROVIDERS, COMMUNICATION, CELLULAR, TELECOM, SALES & SERVICE, TV PRODUCTION, PUBLIC RELATIONS, H.R.



**DATA—DATA TEAM.** Establishes printed communication between Mission Control & Spacecraft, transmits computer messages to/from satellite, uses transmitter and decoder grids, researches probe landing site.

INDUSTRIES: INTERNET SERVICE PROVIDERS, DATA STORAGE, SOFTWARE FIRMS, AEROSPACE, INFORMATION TECHNOLOGY, TELECOM



**ISO—ISOLATION TEAM.** Technology-based station uses robotic arms to manipulate materials too dangerous for the crew to contact, analyzes potentially dangerous chemicals, monitors cosmic radiation levels.

INDUSTRIES: ROBOTICS, INFORMATION TECHNOLOGY, ENGINEERING, ENERGY, COMPUTER PROGRAMMING



**LS —LIFE SUPPORT TEAM.** Using laboratory activities, monitors the spacecraft environment to ensure safety of flight crew, reads gauges, measures volume and acidity of solutions using the concept of pH.

INDUSTRIES: ENERGY, BIOSCIENCE, PHARMACEUTICAL, OCCUPATIONAL THERAPY, RECYCLING, AGRICULTURE, FOOD/NUTRITION



**MED—MEDICAL TEAM.** Monitors and analyzes the physical condition of the crew, identifies germ samples, checks for hazardous bacteria, takes blood pressure and computes averages.

INDUSTRIES: HOSPITALS, AMBULATORY/EMT, MEDICAL, BIOSCIENCE, PHYSICIANS, OPTOMETRIST, AUDIOLOGIST, NURSING



**NAV—NAVIGATION TEAM.** Helps probe land on Mars, Moon or asteroid, identifies constellations, uses latitude and longitude, and makes mathematical conversions of distance, locates points on a grid.

INDUSTRIES: TRANSPORTATION, AVIONICS, ENGINEERING, AEROSPACE, ASTRONOMY, AUTOMOTIVE, GPS



**PROBE—PROBE TEAM.** Constructs a probe using supplied parts, tests for faulty probe parts and deploys the probe to the surface of Moon, Mars or asteroid, constructs a working circuit tester, work in clean room.

INDUSTRIES: ELECTRONICS, ENERGY, ENGINEERING, MECHANICAL CONTRACTORS, SEMICONDUCTOR, ARCHITECTURE, CONSTRUCTION



**REM—REMOTE TEAM.** Operates a robotic arm and uses glove box to compare geologic samples from Moon, Mars or asteroid, analyzes data on mass, volume and geological make-up of samples (chromatography).

INDUSTRIES: ENERGY, MINING, AEROSPACE, COMPUTER NETWORK INTEGRATORS, SOFTWARE FIRMS, ROBOTICS, GEOLOGY



**SW—SPACE WEATHER TEAM.** Monitors solar activity and sun spots for continued safety of the crew, uses data collected from three orbiting satellites. (NEW station!)

INDUSTRIES: SOLAR ENERGY, METEOROLOGY, AEROSPACE, SPACE RESEARCH, TELEVISION BROADCASTING, SYSTEMS ANALYST



**MEDIA—MEDIA TEAM.** Interviews astronauts & mission controllers, reports findings, writes/publishes facts, disseminates information about the mission to the public. (NEW station!)

INDUSTRIES: JOURNALIST, BROADCASTING, PUBLISHING, MARKETING, PUBLIC RELATIONS, INFORMATION SYSTEMS, INTERNET



**PATCH—PATCH DESIGN.** Uses shape, symbols, images, and text to represent aspects of their Challenger Space Center mission, then design and present their own team Mission Patch, just like the real astronauts.

INDUSTRIES: GRAPHIC DESIGN, VISUAL ARTS, ADVERTISING, COMMUNICATIONS