

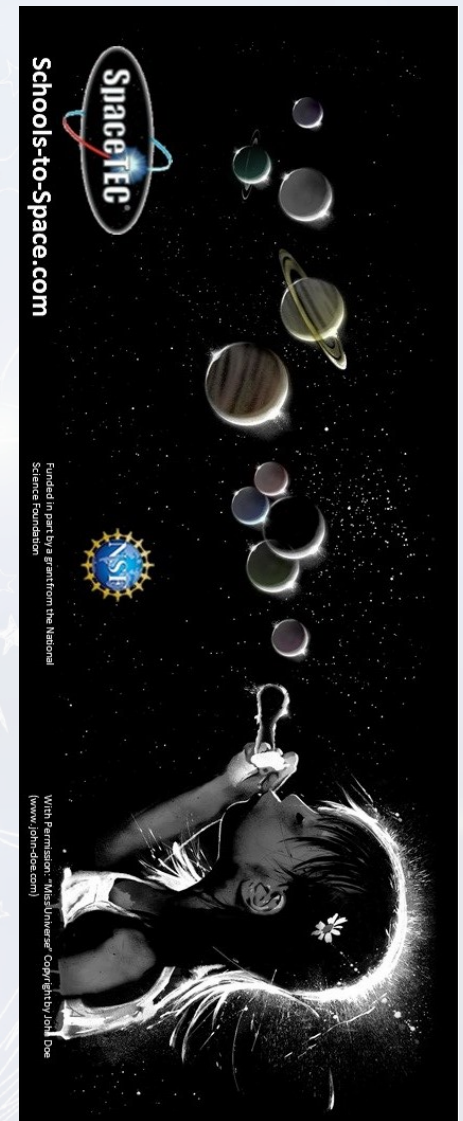
## Who is SpaceTEC®?

SpaceTEC® is the National Science Foundation's National Resource Center that promotes and educates candidates for technical employment. Its certification programs offer performance-based examinations that result in industry-driven nationally recognized credentials that reflect the competencies employers demand. The certification program is offered through a nation-wide consortium of community and technical colleges, universities, business and industry organizations, and government agencies.



## What is an Aerospace Technician?

*"An aerospace technician is a STEM professional that assembles, services, tests, operates, and repairs systems associated with both expendable and reusable launch vehicles, payloads, related laboratories, and ground support equipment."*



## SCHOOLS-TO-SPACE®

A School Outreach Program Created by SpaceTEC®, a National Resource Center for Aerospace Technicians



## What is Schools-to-Space®?

With a current robust satellite launch market and our national space program's imminent return to human spaceflight, SpaceTEC® has recognized a need for STEM educators to have appropriate resources to introduce students to the STEM career of Aerospace Technician. In April of 2015, SpaceTEC® launched an outreach program, called "Schools-to-Space®," to provide secondary school STEM educators the tools to teach space, with an emphasis on the role of a Nationally Certified Aerospace Technician® in the aerospace industry.

- **As of 2015, the average age of an aerospace technician was 53 indicating a high demand for skilled technicians in the near future as these technicians begin to retire from the workforce.**
- **By 2022, it is projected there will be FIVE Human Space Flight programs, both government and commercial, launching from Kennedy Space Center.**
- **The median salary of an aerospace technician is \$62,680 in 2013. (Source: U.S. Bureau of Labor Statistics)**

## Outreach to Students

### Current school wide presentations:

- *"What was it like to work on the Space Shuttle: The misadventures of a Space Cadet"*

This entertaining 45 minute presentation explains what it was like to work on the Space Shuttle from an aerospace technician's point of view. with a Q&A session afterwards.

- *"I Want to be an Astronaut"*

SpaceTEC® is the licensed screener of this award winning documentary, which first premiered on the International Space Station. We follow high school senior Blair Mason as he pursues his dream to become an astronaut. The 38 minute long movie discusses past, current, and future human space flight. A Q&A session follows after the movie.

### Student Resources

- *Schools-to-Space.com*

A space education resource/portal for both students and educators with downloads, lesson plans, games, etc.



**Howmet Playhouse Michigan November 2015: Schools-to-Space® speaks with 1300 Middle School Students about the STEM career of aerospace technicians.**

## Outreach to STEM Educators

### STEM Educator Workshops

- *Classroom at the Edge of Space: Introducing the Mini-Cube Program*
- *Teaching Human Spaceflight in the secondary classroom*

### STEM Educator Resources

- *Schools-to-Space.com/educator-resources*

### Introduce performance-based certification competencies to middle and high school students.

- *SpaceTEC® Aerospace Technician Apprentice*

SpaceTEC® will assist high schools, that have an aerospace/aviation technology program, implementing a SpaceTEC® Aerospace Technician Apprentice Curriculum based on SpaceTEC® Core Competencies in accordance with state education standards. The goals are for the students to obtain an internship with a local aerospace company during high school, successfully passing the apprentice exam, potential employment after graduation, and successfully passing the Nationally Certified Aerospace Technician® exams two years later.

- *Schools-to-Space® Satellite*

Available fall of 2016: Students will perform "hands on work" as aerospace technicians to prepare a satellite for an imaginary mission to orbit.

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