Vertical Flight Society

ADVANCING VTOL SINCE 1943

EDUCATIONAL MEMBERSHIP AND INITIATIVES
HISTORY

The Vertical Flight Society’s Membership Program was established in 1977 to provide educational institutions from all around the world with the opportunity to participate in the advancement of vertical flight technology.
JOIN OUR RANKS!

- Concordia University
- Cranfield University
- Embry-Riddle Aeronautical University
- Georgia Institute of Technology
- Instituto Tecnológico de Aeronáutica, Brazil
- Liverpool University
- Massachusetts Institute of Technology
- Nanjing University of Aeronautics and Astronautics
- National Defense Academy, Japan
- Pennsylvania State University
- University Politecnico di Milano
- Rensselaer Polytechnic Institute
- Technical University of Munich
- Texas A&M University
- University of Alabama, Tuscaloosa
- University of Alabama, Huntsville
- University of Maryland
- University of Michigan
- University of Tennessee, Knoxville
- University of Texas at Arlington
- Vienna Institute of Technology
- Warsaw University of Technology
- Washington University in St. Louis
- Widener University
INDIVIDUAL BENEFITS

- Participation in AHS Technical Committees with leading engineers, scientists and developers in industry, academia and governments
- Local chapter meetings offered throughout the world
- VTOL employment/internships on AHS Career Center
- Vertical Flight Society’s Student Design Competition
- Participation in the Vertical Flight Foundation Scholarship
- Participation in VFS’ diverse Awards Program
- Unlimited networking opportunities
- VFS Member Directory
- VFS Photo Gallery, Hover Discussion Community, Vertipedia Database, and other resources!
TALENT FOSTERING TALENT

Vertical Flight Society’s Educational Members institutionally and individually foster young talents to advance VTOL technology in industry, government and academia.
“At an international level, attending the annual VFS Forum has led to research collaboration with other universities, internship opportunities, and post-graduation job offers. At a chapter level, one of our campus events allowed me to connect with a mentor from outside the world of academics. The society has pushed me to develop various sets of goals for myself as well as build a plan to achieve those goals. I think that becomes extremely important in the near future as I’m deciding what career path I want to take.”

Amanda Grubb
PhD candidate, Guided by Prof. Marilyn Smith
Georgia Institute of Technology
2-time VFF scholarship winner
VFS Georgia Tech Chapter Treasurer

"The VFF has made it possible for Georgia Tech to recruit Amanda Grubb, a stellar undergraduate who could have had her pick of fields of interest. Amanda’s talent in leadership is combined with top-notch technical skills. Her potential has already been recognized via recruitment efforts by several organizations well before her proposed graduation."
Professor Marilyn Smith, Georgia Institute of Technology
Director, GT Computational Nonlinear Computational Aeroelasticity Lab
AHS member since 1989
UNIVERSITY MEMBER BENEFITS

Dues: $350 /year

- 1 Annual Forum Proceedings CD-ROM — a $320 value
- Discounted campus-wide subscriptions to AHS Journal, Vertiflite, AHS Proceedings
- Exhibit space discount at the annual AHS Forum & Technology Display

Up to 2 individual memberships with subscriptions to

- Vertiflite magazine (print, plus online access to all issues) — a $175 value x2
- The AHS Journal (print) — a $80 value x2
- Membership discounts on registration to technical meetings, VFS Forum, AHS Online Library subscription, etc.
- Free registration at the AHS Annual Forum for student volunteers — saves $400/student
# FULL ACCESS COMPARISON

## Institutional Subscriber:

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<tr>
<td>Journal of AHS</td>
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## Educational Member:

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<th>University Bundle</th>
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<tr>
<td>AHS Journal + Online Library + Educational Membership</td>
<td>One site</td>
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<tr>
<td>Academic Institutions</td>
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$2,175 vs. $1,500
LOCAL CHAPTER MEETINGS

- Opportunity for regular and student members to make presentations at local chapter meetings
- Great networking and information exchange opportunity with peers in industry, academia and government

AHS San Francisco Bay Chapter @ NASA Ames
AHS Stratford Chapter meeting @ Sikorsky
AHS East New England Chapter Meeting @ GE Lynn
Visit the [ENE Chapter website](#) for the event summary!
CAREER CENTER

- Employment, fellowship, and internship opportunities from top aviation/aerospace engineering companies, government research facilities and academic institutions globally
- 60+ recent job postings since June ’17
- Members-only benefit

[careers.vtol.org]

“We posted on June 14 for a Chief Engineer Air Vehicle Design for an exciting new VTOL development program, and we were contacted within days by a highly-qualified candidate who we are thrilled to have join our team.”

“We very much appreciate all that [VFS] does, particularly for our technical profession, to advance the field of vertical flight.”

– John Piasecki, President & CEO of Piasecki Aircraft
VFF SCHOLARSHIPS

“Receiving the VFF Scholarship has been a humbling reminder of the appreciation the VFS community has for aspiring engineers like me. I am very grateful to AHS for introducing me to this opportunity and giving me a chance to refine and present my research work to the prestigious VFF Committee.”

– Kanika Gakhar, Texas A&M University, VFF Winner 2017

vtol.org/vff
STUDENT DESIGN COMPETITION

- Rotating sponsors: Airbus, Boeing, Bell Helicopter, Sikorsky (LMCO), Leonardo Helicopter (formerly AgustaWestland)

- Annual VTOL aircraft design challenge to meet specific requirements and tackle real-world/industry challenge

- Award: cash prize, presentation opportunity at Annual VFS Forum, and recognition from AHS International and sponsoring organization
VERTIPEDIA

- Vertipedia is an online, mobile-friendly, educational VTOL database developed by the Vertical Flight Society in 2013
- Current data: **854 aircraft**, **604 historical milestones**, **456 biographies**, and **391 organizations** – and growing!
- Confederated search engine retrieves results across VFS and external academic/government resources: [https://vertipedia.vtol.org/resources](https://vertipedia.vtol.org/resources)

[https://vertipedia.vtol.org](https://vertipedia.vtol.org)
VFS PHOTO GALLERY

- Almost 4,400 photos on VTOL aircraft, people, VFS events, and more

https://gallery.vtol.org
VFS STEM PROGRAM

- Promoting hands-on, VTOL-themed STEM learning
- Motivating K-12 students to pursue VTOL STEM degrees and careers
- Recognizing VFS chapter and HQ efforts in promoting VTOL-STEM learning
- Engaging individual, corporate, educational, and government stakeholders to build and expand VFS-led STEM effort

Forum 73 STEM Day

VFS PSU Chapter Rotor Day

https://stem.vtol.org
PSU CHAPTER ANNUAL ROTOR DAY

107 student attendees
10 hands on activities

Flight Simulator
X Plane flight simulation software was used for the flight simulations. The children were able to fly fixed wing aircraft using a joystick. The joystick stick allowed the children to control all control surfaces. We hope to have inspired future pilots!

K-MAX Gears
The main bevel gears of a Kaman K-Max gear box were set up to show how mechanical power is distributed from the engine to the rotors. These large gears were great for the students to play with. They saw how the two main rotors of the K-Max could spin in opposite directions even though it only has one engine.

Gyroscopic Stability
A bicycle wheel and turntable were used to teach children about gyroscopic stability and conservation of momentum. The kids were able to see how changing the direction of the wheel would affect the spin of the turntable. This was a fun event that drew a lot of attention!
CONTACT US!

- Please contact VFS HQ STEM/Educational Outreach Coordinator Betty Chen at bchen@vtol.org or your local chapter officers to join our STEM/Educational outreach!

UT Arlington @ ‘17 Heli Expo

Georgia Tech @ local Atlanta school

https://vtol.org