

# Regional Infrastructure Fund Application



**Deadline: Monday, April 30, 2018, 5:00 pm**

## A. Applicant

Organization Name

Josephine County

Organization Type County

(Identify the ORS under which entity is formed if applicant is an entity other than city or county, such as special district, authority, association, etc.)

Street Address

500 NW 6th Street, Dept. 6  
Grants Pass, Oregon 97526

Mailing Address

500 NW 6th Street, Dept. 6  
Grants Pass, OR 97526

Office Phone (541) 474-5221

Web URL http://www.co.josephine.or.us/contactus.asp

DUNS Number 054961701

Federal Tax ID Number 93-6002300

## B. Project Contact

Name Larry Graves

Title Director - Josephine County Airports

Phone 541-955-4535 x2

Email LGraves@co.josephine.or.us

Cell Phone 541-660-2169

## C. Final Beneficiary/Recipient

If final beneficiary/recipient is not same as applicant, complete this section.

Organization Name \_\_\_\_\_

Street Address \_\_\_\_\_

Mailing Address \_\_\_\_\_

Office Phone \_\_\_\_\_

Web URL \_\_\_\_\_

Contact Name \_\_\_\_\_

Contact Title \_\_\_\_\_

Contact Phone \_\_\_\_\_

Contact Email \_\_\_\_\_

## D. Project Overview

**Project Name** (10 words or less)

Grants Pass Airport Facility Upgrade for Southern Oregon Air Academy

1. Please indicate if the project is **consistent with Business Oregon's strategic plan priorities** listed below. See [Business Oregon's Five Year Strategic Plan](#) to see the agency's priorities.
  - Innovate Oregon's Economy
  - Grow Small- and Middle-market Companies
  - Cultivate Rural Economic Stability
  - Advance Economic Opportunity for Underrepresented People
  - Ensure an Inclusive, Transparent, and Fiscally Healthy Agency

2. Identify the **Sustainable Community Objectives** addressed by the project. Sustainable community objectives were adopted by the Oregon State Legislature as part of the Oregon Revised Statutes in the 2001 Legislative Session. Regional Solutions Teams use them as a guide in leveraging investments and achieving multiple project objectives.

Economy

- A resilient economy that provides a diversity of good economic opportunities for all citizens.
- Workers whose knowledge and skills are globally competitive and supported by life-long education.

Community

- Independent and productive citizens.
- Youth who are fully supported by strong families and communities.
- Vital and active downtowns and main streets.
- Efficient development that saves infrastructure investments and natural resources.
- Quality affordable housing that is available to those who need it.

Environment

- Healthy urban and rural watersheds and species abundance and diversity.
- Clean and sufficient water for human and natural use.
- Efficient use and reuse of resources, and the elimination of harmful toxins in the environment.

## E. Project Description

Describe the "What" in the space allowed. Provide a brief, 4-5 sentence summary of the project and what the funds would be used for. Include a brief description of the goal and scope of the project, summarizing project implementation (e.g., planned infrastructure or activity).

This project will provide professional design and construction management services along with the renovation of the existing building and aviation training campus on the Grants Pass Airport, to turn it into a state-of-the-art tech hub for the Airport. The Airports Department plans to lease this facility to the Southern Oregon Air Academy (SOAA) for CTE and training.

The major goals of this master planning, design and construction effort are:

- ❖ Create a welcoming and connected campus with a hi-tech vibe, efficiently making an existing facility ready for occupancy
- ❖ Renovate the main building and administrative building to serve the programmatic needs of SOAA and potential tenants
- ❖ Provide flexibility for future uses and programs that develop out of SOAA and aviation community needs
- ❖ Design an Airport/SOAA campus connection directly to the rest of the Grants Pass Airport with a private driveway

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## F. Justification

Opportunity/Need—In the space allowed below, describe “Why” the project is needed. Identify the opportunity or need the project seeks to address as well as how it supports the Regional Solutions and Business Oregon priority(ies) (see pages 2-3). Provide data and/or a narrative substantiating the need.

There is a tremendous (and rapidly growing) shortage of trained workers in the aviation-related fields; pilots, mechanics, flight attendants and engineers. This project will directly support Business Retention, Expansion, Creation, and Recruitment. Josephine County has an existing, older and unoccupied facility on the Grants Pass Airport that is perfectly positioned to become the regional tech-hub training center for junior-high and high-school students interested in Aviation Career Technical Education (CTE). Renovating this older facility will efficiently recycle this resource with minimal expense. The Southern Oregon Air Academy (SOAA) is perfectly suited to locate within this facility and provide exactly this aviation-related training and CTE. High-school students who go through the SOAA curriculum and a hands-on plane-building program will already be “workforce ready” for entry-level positions in local/regional aviation-related businesses, AND will also be ready to move into college-level aviation training and/or certification courses. This project directly supports all of Business Oregon's top priorities.

Proposal/Solution—In the space allowed below, describe “How” the project would address the above opportunity/need.

This project will provide a permanent base for the Southern Oregon Air Academy, a non-profit organization which is focused directly on aviation-related Career Technical Education. This proven initiative motivates junior-high and high-school aged youth in an economically disadvantaged local population by providing hands-on aviation experience and career training in STEM disciplines (Science, Tech, Engineering, Math). Local youth thus motivated are more likely to remain in or return to this area working in aviation-related fields at our local and regional airports. In turn, local and regional aviation businesses can and will provide family-wage-sustainable jobs, once the SOAA program provides the much-needed influx of skilled labor.

The SOAA program once it is housed in the rehabilitated Grants Pass Airport facility, will motivate and teach local and regional youth via hands-on aviation experience in an airport environment, to include all the fabrication and assembly operations required to build a full-sized, flyable aircraft. The many disciplines acquired along the way are the central focus of the SOAA plane-build program. These skills and aviation-specific knowledge learned will prepare our local youth for immediate entry-level employment in the growing field of aviation technology as well as for college-level follow on programs.

3. **Funding Request.** All requests must be in the range of \$50,000 to \$1,000,000.

- a. Funds requested: \$ 337,500
- b. All projects, but especially those whose project request is over \$200,000, are encouraged to define the minimum funds requested: \$ 212,500
- c. Describe what phase or portion of the work could be completed with the minimum request, or how the project would be altered to complete the project with the reduced amount:  
Phases 1, 2 and 3 of an overall 5-Phase project could be completed with a possible County contribution.

4. Provide a list of letters that **demonstrate community support** for the project (list name and affiliation of sender). Attach copies of letters to your application (see Attachment D in the List of Attachments).

<b>Name</b>	<b>Affiliation</b>
<u>State Aviation Board</u>	<u>State of Oregon Department of Aviation Advisory Board</u>
<u>Collaborative Economic Development C</u>	<u>Josephine County/Grants Pass City C.E.D. Committee</u>
<u>Board of County Commissioners</u>	<u>Josephine County Board of County Commissioners</u>

5. Is the project included in any adopted Master Plans or regional or local economic development and/or strategic plans?  Yes  No

If yes, list them below.

Josephine County Airports Short- and Long-Term Goals; Josephine County Community Economic Development Plan

6. Does the project benefit the Oregon economy by generating a net **increase in, or retention of, long-term jobs** (beyond short-term construction jobs) in the region directly impacted by the project?  Yes  No

If yes, complete a., b. & c. below. (If this project advances to the Grant & Loan Review Committee, you may be asked to provide supplemental information.)

- a. Expected number of long-term (non-construction) jobs created or retained as a direct result of the project: 50 jobs created 20 jobs retained
- b. Expected average annual wage of long-term (non-construction) jobs created or retained: \$50K
- c. Provide a description of the types of jobs created and/or retained:  
Aviation Tech; Airframe & Powerplant Mechanic; Pilot; Flight Attendant; Aeronautical Engineer

### G. Project Work Plan

List project activity milestones/key tasks with estimated start and completion dates.

Activity	Estimated Start Date	Estimated Completion Date
Estimated Project Start Date	03/01/2019	
Design Document / Bid	03/15/2019	04/15/2019
Advertise Doc	04/21/2019	05/30/2019
Construction	06/01/2019	12/28/2019
Project Closeout	02/28/2020	02/28/2020
Estimated Project Completion Date		02/28/2020

7. Describe any conditions that may affect the completion of the work plan. If applicable, describe any measures planned to mitigate these conditions.

Weather will be the primary consideration when it comes to project delays. If we have a very early onset to the rainy season, that may delay some of the outside work and cause the project to go longer on the time-line, but there is no anticipated increase in cost due to weather delays. It is also possible that a severe wildfire season could cause some schedule delays.

## H. Project Budget

<b>Budget Line Item</b> Below are general items most used (adjust budget items to suit the project).	<b>Regional Infrastructure Fund</b>	<b>Other Funding</b>	<b>Total</b>
Engineering/Architecture	\$ 25,000	\$ 25,000	\$ 50,000
Construction	\$ 200,000	\$ 75,000	\$ 275,000
Construction Contingency	\$ 25,000		\$ 25,000
Land Acquisition			\$ 0
Legal			\$ 0
Construction Management			\$ 0
Other Specify _____			\$ 0
Other Specify _____			\$ 0
Other Specify _____			\$ 0
Other Specify _____			\$ 0
<b>Totals</b>	<b>\$ 250,000</b>	<b>\$ 100,000</b>	<b>\$ 350,000</b>

## I. Details of Other Funding

Source of Other Funds (see Attachment C requirements in Section L. List of Attachments)	Amount	Status: C-Committed, AS-Application Submitted, AI-Application Invited, PS-Potential Source	Dates Required Funds will be Committed and Available
Josephine County Property Reserve Fund	\$ 100,000	C	07/01/2018
_____			
_____			
_____			
_____			
<b>Totals</b>	<b>\$ 100,000</b>		

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## J. Who Prepared the Cost Estimate for the Project?

Name Kelsy Ausland Title President

Company Ausland Group Phone Number (541) 476-3788

Date of project cost estimate 04/29/2018

8. Does the project budget propose direct project management expenses?  Yes  No  
(Direct project management is defined as expenses that will be incurred that are directly related to and necessary solely to support or manage project activities and are not routine or ongoing expenses of the municipality or expenses for current staff that are already included in the municipality's adopted budget.)

If yes, describe how the direct project management services will be provided:

Employment of an engineering consultant

9. Will the applicant own the facility/improvements once constructed?  Yes  No

If no, explain:

10. After project completion, who will assume responsibility for the ongoing operations and maintenance of the project?

Josephine County Airports Department and the tenant on the property - joint responsibility

11. After project completion, what will be the source(s) of funds for the ongoing operations and maintenance of the project?

Josephine County Airports Department and Tenant joint responsibility

12. Is the applicant (and final beneficiary/recipient) current on all taxes, fees, and debt payments?

Yes  No

If no, explain:

April 29, 2018

Master Planning Committee  
Southern Oregon Air Academy  
210 Tacoma Street  
Grants Pass, Oregon

**Re: Southern Oregon Air Academy  
210 Tacoma Street, Grants Pass, Oregon**

Dear Board of Directors,

Thank you for the opportunity to provide professional design and construction management services for the renovation of the existing building and campus at 210 Tacoma Street, into a state-of-the-art tech hub for the Southern Oregon Air Academy (SOAA). We are truly excited about bringing the programs this facility will bring to our region.

We understand that SOAA is ready to take the next steps towards creating a master plan that represents the vision of the your non-profit for decades to come. We understand that the major goals of this master planning effort are:

- ❖ Create a welcoming and connected campus with a hi-tech vibe.
- ❖ Renovate the main building and administrative building to serve the programmatic needs of SOAA and potential tenants.
- ❖ Provide flexibility for future uses and programs that develop out of SOAA
- ❖ Connect the campus directly to the Grants Pass Airport with a private road.

Below is a description of scope and budget for the identified phases of your project:

**Phase 1: Master Planning and Conceptual Design**

- ❖ Develop Programming & Space Need Plans for SOAA
- ❖ Assess implications of "Change of Use" Implications
- ❖ Perform reconnaissance of site infrastructure (water, septic, power, data, communications) for suitability for proposed use.
- ❖ Research feasibility of easements for private driveway or road to access Airport (allowing the access from Tacoma Street to be secondary/staff access).
- ❖ Develop conceptual designs for the Phases outlined below, and present to SOAA Board of Directors for refinement.
- ❖ **Budget: \$12,500**

**Phase 2: Classroom Space, Offices, Lobby for SOAA Camps and Classes**

- ❖ **Purpose:** Tenant improvements for new finishes and adjusted demising walls to fit Program Spaces for SOAA into existing facilities.
- ❖ Conceptual Building Space Planning:
  - Develop rooms #15 and #19 into Tech Classrooms
  - Maintain Living Room (#20) as gathering space for students
  - Efficiently remodel restroom areas for accessibility to meet code, and provide adequate facilities per building code for classes (Josephine County to contribute to funds for accessibility).
  - Develop functioning office spaces for SOAA staff and lease partners.
  - Minimally remodel and improve finishes to lobby.
  - Freshen appearance of front entry façade

- ❖ Site Improvements
  - New landscaping
  - Improve site lighting and security
- ❖ **Budget:**
  - Building \$150,000 - \$250,000
  - Site \$50,000 - \$75,000
  - **Total: \$200,000 - \$325,000**

**Phase 3: SOAA Reception and Kit Plane Building Area**

- ❖ Purpose: Renovate existing facilities (three different locations identified), for creation of a Kit Plane Build area. Size and location of kit plane build area to be determined during Programming Phase of project. For planning purposes, this is envisioned as a 400 SF to 600 SF area.
- ❖ Conceptual Building Space Planning:
  - Kit Plane Build Area (400 SF – 600 SF) including new garage doors
  - Restroom, upgrade for accessibility (65 SF)
  - Two Offices (250 SF)
  - Circulation Space 25%
- ❖ Site Improvements
  - New driveway to connect Kit Plane Build Garage, to existing parking lot
  - Improve gated access / security
  - ADA Pathway Improvements
- ❖ **Budget:**
  - Building \$100,000
  - Site \$20,000
  - **Total: \$120,000**

**Phase 4: Remodel Dormitory Space and Remainder of Building**

- ❖ Purpose: Full tenant improvements and remodel to remainder of existing building, including conversion of rooms to dormitories for SOAA overnight camp programs.
- ❖ **Budget: T.B.D.**

**Phase 5: New Private Road to Grants Pass Airport**

- ❖ Purpose: Provide a private driveway directly linking the SOAA Campus to the Grants Pass Airport. The link would provide the optimum proximity to airport facilities, and provide a better image for visitors to the facility.
- ❖ **Budget: T.B.D.**

Ausland will provide you with world-class development services to effectively deliver your project, using local resources and top talent. As the design of the above tasks progresses through permitting, Ausland uses a “bidding” process that will ensure all local subcontractors and suppliers have the opportunity to bid on the project, and that SOAA receives the most competitive pricing. Budgets are based on 2018 pricing. We recommend carrying 5% per year for escalation, as you project actual project timeframes.

Thank you for this opportunity. Please do not hesitate to call if you have any questions. We are truly looking forward to working with you on this endeavor.

Sincerely,

Kelsy Ausland, PE  
President

# SOUTHERN OREGON *Air Academy*

## FAQ Sheet: Unique Instructor Opportunities at Southern Oregon Air Academy

### After School Drone Club

SOAA is partnering with Southern Oregon Education Service District (SOESD) and the Rogue Valley Flyers R/C club to offer a STEM based after school drone program of the Academy of Model Aeronautics (AMA).

The program will be offered through area middle schools in March, 2019. Each school will form a drone club of 10 members. Each club will complete a ground school including:

- FAA Part 107 Unmanned Aircraft Regulations course,
- Assembling and testing drones
- Programming drones for remote unmanned search and rescue missions (SAR).

The AMA program encourages students to explore the full potential of drones through, teamwork, competition, and succeeding at missions. The course culminates with all teams meeting on May 3&4, 2019 at the Grants Pass Skypark of Rogue Valley Flyers. An AMA Judged competition will determine the 2019 champion team

Teachers: You will be compensated. And if you have a passion for STEM and Aviation please apply. All training and materials for this program will be provided.

- Start Date: Early March
- End Date: May 4 & 5
- # of Students: 10 per school
- Location: TBD onsite at school district (goal)
- # of weeks: 11
- # of hours per week: 3
- Total Average # of hours: 40
- Time of club: TBD after school
- Curriculum Development Time: No
- Stipend Rate: \$1000
- Fly Off Competition: May 4 & 5
- 4-5 spots available this year

**Southern Oregon Air Academy programming is possible through a partnership with Southern Oregon Education Service, Three Rivers School District and Evergreen Federal Bank**

# SOUTHERN OREGON *Air Academy*

## FAQ Sheet: Unique Instructor Opportunities at Southern Oregon Air Academy

### SOAA Summer Aviation Camps (3)

SOAA is again offering its Aviation based summer camps at Grants Pass Airport. Students will be introduced to the basic concepts of flight supported by:

- Hi-tech flight simulators,
- The principles of aerodynamics,
- Hands-on the instrumentation of full scale airplanes,
- Tools of flight plotting and navigation
- Experienced power plant and aviation maintenance staff
- Drones and radio controlled aircraft,
- An indepth look at career pathways associated with aviation along with education pathways in Oregon.

No prerequisite experience required. Educators will be compensated. We are looking for enthusiastic community members, If you have a passion for STEM and Aviation please apply. All training and materials for this work will be provided.

- Dates: Weeks of 7/8, 7/22 & 8/5. Each camp is one week.
- # of Students: 20 per camp, broken out 5 per squad
- Location: Grants Pass Airport
- Total Average # of hours possible : 30
- # of hours per week: 30
- Time of camp: 9am-3pm
- Lunches and snacks provided
- Curriculum Development Time available for additional stipend
- Stipend Rate: Base \$750
- 9-12 spots available this summer

Visit our website <http://soairacademy.com> or Facebook <https://www.facebook.com/soairacademy/> for more information

**Southern Oregon Air Academy programming is possible through a partnership with Southern Oregon Education Service, Three Rivers School District and Evergreen Federal Bank**



SOUTHERN OREGON  
*Air Academy*



[WWW.SOAIRACADEMY.COM](http://WWW.SOAIRACADEMY.COM)

**SOUTHERN OREGON AIR ACADEMY (SOAA)** is a 501(c)(3) non-profit organized for the purpose of introducing the fields of **aviation** and **aerospace** to **elementary, middle school, high school** and **college students** through **Science, Technology, Engineering and Math (S.T.E.M.)**, focused on curriculum and programs developed in collaboration with professional educators.



Watch this video  
on our website!



### Programs

Summer Camp (Middle School)  
After School (Middle School)  
Plane Build (High School)

### Objectives

Workforce Readiness  
Youth Development  
Industry Revitalization

### Career Paths

Engineering  
Mechanics  
Piloting  
Ballooning

### Partners and Supporters

Southern Oregon Education Service District  
Pacific Aviation Northwest  
Josephine County Airports  
Oregon Department of Aviation  
Horizon Airlines / Alaska Air Group  
Boys and Girls Club of the Rogue Valley



### Recent News

\$382,000 CTE-R Grant Award  
10,000 sq-foot Facility Lease  
Kickoff at Dutch Bros Hangar

Visit our website for more  
info, photos, and videos.

[www.soairacademy.com](http://www.soairacademy.com)





# Rotary Club of Greater Grants Pass

Join Leaders • Exchange Ideas • Take Action • Serve Your Community • And the World

## Southern Oregon Air Academy – Proposal for Lease of 210 Tacoma Street

### Background

The Grants Pass Air Academy (GPAA) recently completed it's second annual Summer Camp for local middle school students ([vimeo.com/233911269](https://vimeo.com/233911269)), a program sponsored by the Southern Oregon Education Service District. The program has operated as an unofficial program of the GP Airport.

GPAA now has a unique – and time-sensitive - opportunity to engage in a lease to operate out of the facilities at 210 Tacoma Street on the airport, with ample classrooms, housing and office space.

Advocates are now in the process of forming a non-profit organization that will be named Southern Oregon Air Academy, to be finalized by December 2017, and will be the official lease holder.

### Program Vision

SOAA's goals are to offer year-round STEM training and education for Southern Oregon-based Elementary, Middle and High School students, and to foster opportunities in aviation-related careers.

The Tacoma Street facility is large enough to host the following activities, as well, some of which can generate significant income for SOAA's education programs through sub-lease arrangements.

Flight Training – Domestic	Helicopter Training Program	Civil Air Patrol
Flight Training – International	Collegiate Flying Team	RC Aircraft Club
Balloon Pilot Training	Corporate Balloon Management	Other Summer STEM Camps
Balloon Crew Training	Corporate Balloon Maintenance	

There is also room for expansion – more parking, classrooms, housing, or office space – if needed.

Sincerely,

Caleb LaPlante

Board Chairman  
Southern Oregon Air Academy

Founder and Chairman  
[www.gpballoonfest.com](http://www.gpballoonfest.com)

Public Relations Chairperson  
Greater Grants Pass Rotary

America Region - Northwest Section Chair  
International Fellowship of Flying Rotarians

**Note: SOAA is NOT an official Rotary program, but rather an extension of my IFFR leadership position.**



[SOESD](#) / [Administration & Business](#) / [College and Career for All Hub](#) / [News](#)

## \$1,197,286 for CTE / College and Career / STEAM Pathways

The Oregon Department of Education has awarded a \$382,286 Career Technical Education Revitalization (CTE-R) grant to Southern Oregon Education Service District as part of a regional collaborative project with Southern Oregon Air Academy, K-12 school districts, higher education, and other business, industry, and community partners.

The CTE-R grant will supplement other funding SOESD has obtained this school year totaling about \$1.2 million to be used in the College and Career for All (CC4A) / STEAM (Science, Technology, Engineering, Arts & Mathematics) and CTE programs for activities to support teacher training on project-based learning, student internships and teacher externships in local businesses, as well as a variety of out of school camps and in school courses.

Graduation rates for students in Oregon CTE programs are 15.5% higher than the statewide average. Projects will specifically be targeting traditionally underserved students with a goal of increasing attendance and graduation rates while preparing students in career pathways that result in high wage, high skill, and high demand occupations aligned with the needs of local industry as well as employers across the state and nation. These include courses in aviation, advanced manufacturing, computer science, electronics, engineering, and medical fields.

The CTE-R **Southern Oregon Air Academy Partnership Project** is designed to ignite a diversity of middle and high school students' interest in pursuing aviation sciences, aerospace engineering, and related CTE/STEM subjects. Collaborating with industry stakeholders and area non-profits, SOESD and its education partners will create after school, 10-week long camp experiences led by teachers to be trained in Project Based Learning (PBL) methods. Simultaneously, PBL trained educators collaborating in their Professional Learning Communities with college faculty, will work to align project lessons with STEM/CTE content standards and classroom work to ultimately lay the foundation for building pathway(s) leading to the formation of a new programs of study in aviation engineering and sciences. With access to PBL trained instructors, high-tech equipment, and industry experts, students will engage in rigorous, real-world lessons, career exploration activities and regional robotics / drone competitions fueling their excitement for continued participation in the district's various CTE/STEM camp offerings and in the pursuit of high wage, high demand jobs throughout the region and beyond.

The various grants SOESD has obtained so far this school year to support our CTE, CC4A, and STEAM efforts include:

- **CTE-R Grant (Southern Oregon Air Academy Partnership Project): \$382,286**
- Math in Real Life Grant (Project Based Learning training for teachers): \$215,000
- Southern Promise Grant (Dual high school - college credit in various career pathways): \$300,000
- STEAM Hub Grant (Hub management, teacher externships, and student activities): \$300,000
- Total to date: \$ 1,197,286

The CTE-R grant award is a result of the College and Career for All (CC4A) / STEAM initiative at SOESD representing a partnership of Southern Oregon ESD with school districts, colleges and universities, business, industry, and community partners. This collaborative effort provides project-based, hands-on, industry-aligned learning experiences for students in courses leading to certificates and degrees in high-wage, high-demand, high-skill career paths.

For more information, please see:

### State of Oregon Press Release

<http://www.oregon.gov/ode/learning-options/CTE/statefund/Documents/Press%20Release%20Announcing%20Grant%20Awards%202012-4-2017.pdf>

### Medford Mail Tribune Article

<http://www.mailtribune.com/news/20171210/soesd-receives-grant>



**Demonstration Area**

**Classrooms**

**Housing**



**Possible Expansion**

**Future Parking**



**210 Tacoma Street**

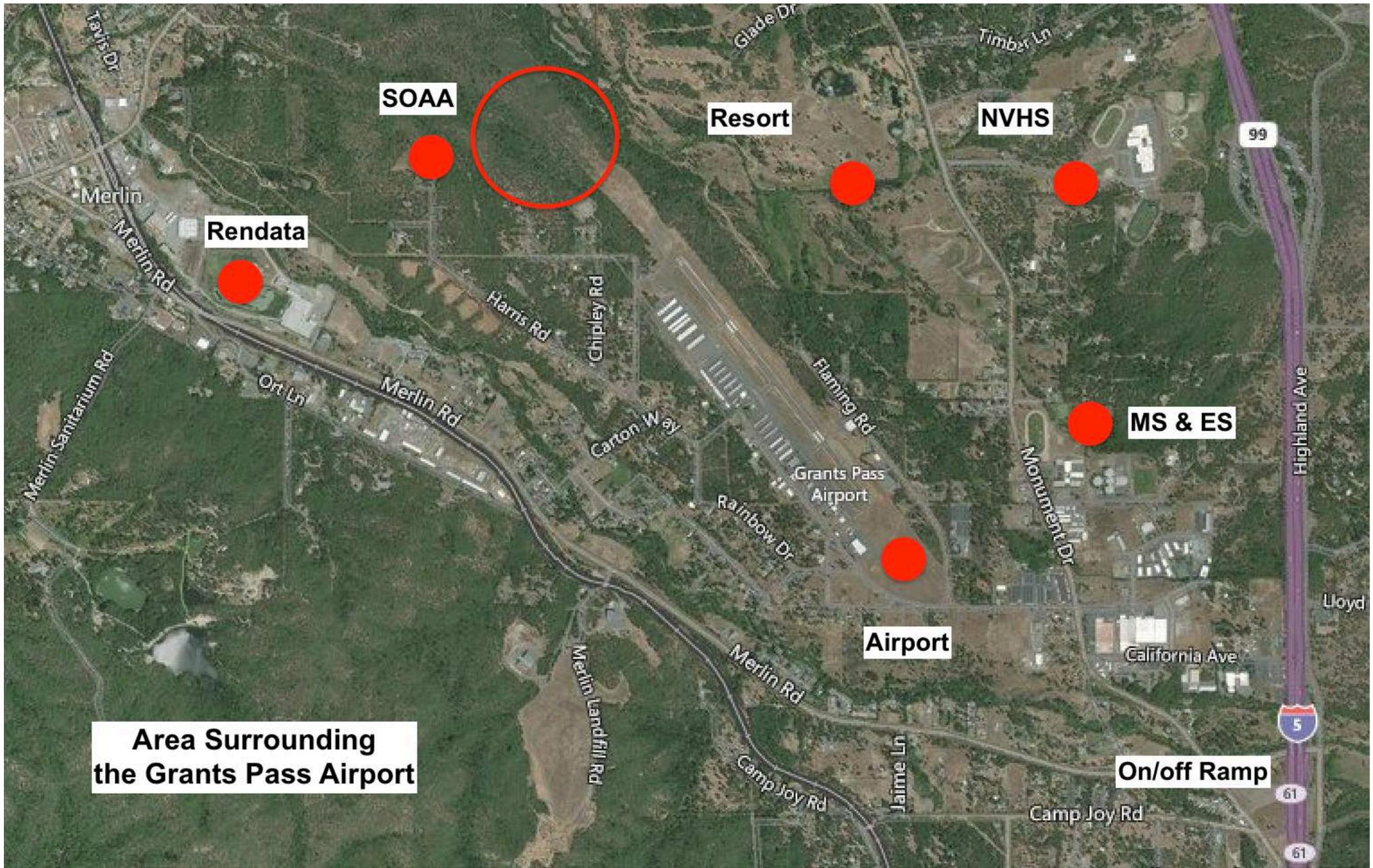


**Offices**

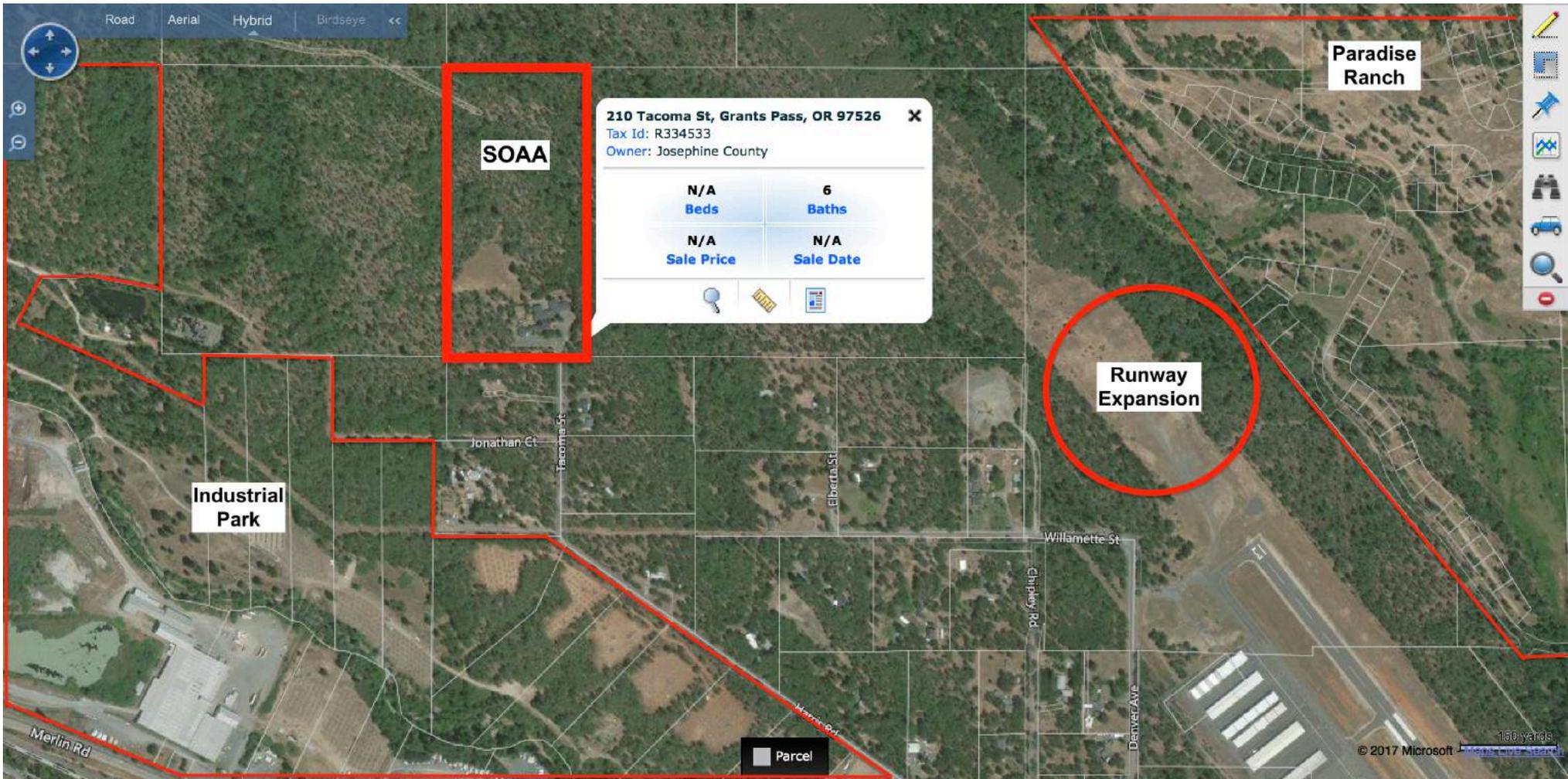


**Entrance**

Google



**Area Surrounding  
the Grants Pass Airport**



# Southern Oregon Air Academy to expand programs

Thanks to a lease from county property manager's office, three aviation camps will now be offered for children instead of one

By Madeline Shannon  
of the Daily Courier

MERLIN — Southern Oregon Air Academy, which operates out of the Grants Pass Airport, will see an expansion of the children's aviation program in coming years.

The program will now have three camps for local children instead of one, but a lease between the Air Academy and the Josephine County Property Manager's office will provide more long-term opportunities to expand the program and reach even more children.

"This isn't just getting kids interested in aviation," said Caleb LaPlante, a member of the airport board. "This is to actually provide them with tangible, real opportunity on the other side of their K-12 educational experience."

LaPlante, along with county airports manager Larry Graves and others, started the Southern Oregon Air Academy two years ago to generate children's interest in aviation and get them excited about career opportunities in the field. The summer program grew from 12 students in the first year to 24 last year.

Plans for the program aim to draw even more local children into the Air Academy fold. Starting this summer, the academy will expand to three camps.

"We're going to do one camp for IV kids, one for Grants Pass-based kids and one for Phoenix-



TIMOTHY BULLARD/Daily Courier

**Caleb LaPlante, a Grants Pass Airport board member, addresses a group interested in expanding the reach of the Southern Oregon Air Academy. A new lease on county property would allow the SOAA to take over an existing facility near the airport for training and classes.**

Talent-based kids," LaPlante said. "We've only had one camp in the past, and this is going to be a scale-up for us."

In the Air Academy program,

children learn about scientific principles of aviation using crafts and activities such as fly-alongs and flight demonstrations. The program excites chil-

dren, but also piques their interest in a professional field that is currently experiencing a shortage of pilots, a massive problem for the industry.

"The industry in general is seeing a decrease in both recreational and commercial pilots," LaPlante said. "The numbers are low."

Toward that end, organizers hope to roll out long-term programs that provide more educational opportunities to children in the area, including a program that will teach high school students how to build planes and an after-school program targeted towards middle school youths.

It might be some time, however, before those programs get off the ground, since those will be housed at an airport facility that still needs renovations and a certificate of occupancy.

"We're not planning to run any programs out of that facility until we start our middle school after-school program next October," LaPlante said. "So we've got some time, and that's also for staffing. It gives us some time to find the funds we need to operate for a couple of years."

The Grants Pass Airport board isn't the only group pushing for an expansion of the Air Academy. Other groups in the area are interested in what opportunities these new aviation programs presents for local children and the local economy.

"Getting them involved at an early age like this is really forward-thinking," said Susan Seeritter, business advocate for the city. "This really focuses on STEM programming and how to integrate that kind of learning in these students."

Reach reporter Madeline Shannon at 541-474-3813 or [mshannon@thedailycourier.com](mailto:mshannon@thedailycourier.com)







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THURS.  
MAR. **15**

**2PM**  
**9<sup>TH</sup> & 10<sup>TH</sup>**  
**GRADERS**

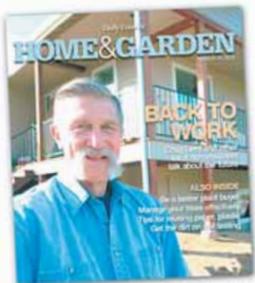
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**Registration Deadline: March 2, 2018**



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# Daily Courier

FRIDAY  
MARCH 16, 2018

## State of the City: Public safety is a top priority

By Troy Shinn  
of the Daily Courier

Public safety and infrastructure topped the agenda of the well-attended and first public State of the City address at Grants Pass City Hall on Thursday.

The city years ago used to do an annual State of the City for the Grants Pass Association of Realtors, but the speech by Mayor Darin Fowler was the first that was open to the general public.

The city's No. 1 priority of keeping citizens safe was discussed at length, with Fowler speaking about some of the moves the city has made to improve the atmosphere downtown and pass key levies.

The mobile soup kitchen, created by a partnership with the city and St. Vincent de Paul, went live last year.

It serves food to the needy at various locations around town, borne out of an effort to reduce the concentration of street people at the St. Vincent de Paul downtown soup kitchen location.

Officials say the effort has been successful.

"It really helped them get services to those who need them," Fowler said. "It's part of the effort to improve the atmosphere downtown ... because when we drive bad behavior out, our businesses are more successful."

He also mentioned the passage of both the city and county public safety levies.

"We had tremendous support ... and the county levy wouldn't have passed if it weren't for the support of Grants Pass," Fowler said, referencing the approval split between city and county residents.

However, he made sure to point out that these are just the first of many steps to a fully funded criminal justice system.

"People often talk about how now it's fully funded, but it's not," he said. "We still don't have full patrols (in the county) and the city still does most of the detective work out in the county, meaning we are spending money and resources that we shouldn't have to."

Turn to CITY, Page 7A

## Oregon high court suspends judge who refused to marry gays

Three-year suspension of Vance Day is the longest handed down by state Supreme Court. **Story, Page 3A**



## 'Wonder of Flight' event encourages local youth to believe they can fly



Photos by TIMOTHY BULLARD/Daily Courier

Students line up to try out the cockpit of a Erickson Air-Crane helicopter named "Incredible Hulk" at the Discover the Magic and Wonder of Flight event held at the Dutch Bros. hangar at the Grants Pass Airport on Thursday.

Students gathered at the Grants Pass Airport to learn about opportunities available in the aviation industry

By Jeff Duewel  
of the Daily Courier

MERLIN — North Valley High School sophomore Skylee Sansaver hopped into the cockpit of an Erickson Air-Crane helicopter prior to Thursday's "Discover the Magic and Wonder of Flight" event at the Grants Pass Airport.

Then she talked to an Oregon Air National Guard recruiter.

Then she heard keynote speaker Shaesta Waiz tell how she was inspired to fly, and became at age 30 the youngest woman in history to fly solo around the world in a single-engine plane.

Sansaver's goal of becoming a pilot took deeper root, even though she's just 15.

"That was amazing," Sansaver said afterward. "It makes me want to do it even more."

About 75 students and an equal number of others heard the hour-long program inside the Dutch Bros. Coffee hangar at the airport, put on by the Southern Oregon Education Service District. Attendance was about the same for a second evening session.

Waiz told of her shy youth, in a family of six girls that emigrated from Afghanistan to Richmond, Calif., in 1987, to escape their war-torn homeland.

"When I found aviation at age 18 my life changed right before my eyes," Waiz said. "I suddenly realized something in that airplane. Where you're from, the challenges you faced, your background, it's all irrelevant. The only thing that matters is the pilot's ability to fly the aircraft. That empowered me to do more in aviation."

She founded Dreams Soar, a program to reach out to children. She contacted 3,000 of them on her journey around the world that ended May 2017 in Daytona, Florida, her starting point.

She flew in a Beechcraft Bonanza 836, a single-engine plane.

Turn to AVIATION, Page 7A



Shaesta Waiz, an Afghan-American pilot, is the first female Afghan certified civilian pilot and became the youngest woman to fly around the world solo in a single engine aircraft. She was a keynote speaker at Grants Pass Airport's Discover the Magic and Wonder of Flight event Thursday.



EVAN VUCCI/Associated Press

President Donald Trump talks with reporters during a meeting with Irish Prime Minister Leo Varadkar in the Oval Office of the White House on Thursday.

## White House on edge as Trump weighs yet more staff changes

Associated Press

WASHINGTON — President Donald Trump consumed Thursday morning's TV headlines with amusement. Reports of tumult in the administration were at a feverish pitch — even on his beloved Fox News — as the president reflected on the latest staff departures during an Oval Office conversation with Vice President Mike Pence and Chief of Staff John Kelly.

With a laugh, Trump said: "Who's next?" It's the very question that has the whole White House on edge. In recent weeks, the president's top economic adviser has resigned over a policy dispute, the secretary of state he long clashed with was fired and a slew of top aides headed for the exits. An increasingly confident Trump is privately weighing still more changes, expressing frustration with certain advisers and sifting through possible replacements.

Many close to Trump think more upheaval is coming soon. The president is moving toward replacing national security adviser H.R. McMaster, but has not settled on exact timing or a successor, said four people with knowledge of White House deliberations. Kelly has also worn on the president, confidants of the president said. And Veterans Affairs Secretary David Shulkin, under fire for ethics violations, appears to be grasping to keep his job.

Turn to STAFF, Page 7A

## JoCo Commissioners will have a say in Kruse's replacement

By Shaun Hall  
of the Daily Courier

The Josephine County Board of Commissioners will have a say, albeit a small one, in choosing who will replace state Sen. Jeff Kruse of Roseburg.

Commissioners in five counties containing parts of the Republican's sprawling District 1 will have a say, based on the number of voters living in the district in each county.

Kruse's district dips in northern Josephine and Jackson counties. It also extends into Coos and Curry counties.

Turn to KRUSE, Page 7A

## Local artist puts finishing touch on GPHS informational murals

By Edith Decker  
of the Daily Courier

This week Grants Pass High School students stopped to notice some new artwork down the hall from the college and career center.

Over the weekend, professional artist and sign painter J Marshall had swooped in and completed a long-planned mural on three walls to represent the many options for further education that Grants Pass graduates have.

"It gave them food for thought, which is what the idea was supposed to be," says Marshall.

GPHS Principal Ryan Thompson had the idea

for the project after a walking tour of the building with a site committee.

"We have really blank wall space in our interiors and we felt like there was a lot we could do to promote a college and career environment within our walls," Thompson said. "We want students to be thinking about what their next destination is."

Marshall worked and reworked the plan for the mural, beginning with a list of the 65 colleges, vocational and technical schools in Oregon that offer further education.

Turn to MURAL, Page 7A



Artist J Marshall (left) speaks with Grants Pass High School Principal Ryan Thompson in front of part of the mixed media mural Marshall created last week end in one of the school's long hallways.

TIMOTHY BULLARD  
Daily Courier



4 Sections, 86 Pages  
Volume CVIII  
No. 128 Issue 32388  
The Daily Courier  
www.thedailycourier.com



OVERNIGHT LOW 35  
SATURDAY HIGH 51  
Five-day forecast on Page 2A

WHERE TO FIND IT  
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news@thedailycourier.com

## City From 1A

Looking to the future, he said the city is still aiming for the formation of an independent fire district, so that fire and rescue services will have its own funding, separate from the Department of Public Safety.

"A lot of cities have made that move already ... to get away from the city entanglements they have to do in order to deal with larger departments."

He mentioned how cities like Medford benefit from mutual aid programs that Grants Pass doesn't have enough of.

"When a fire breaks out in Medford, they have all these surrounding cities that can help them out," Fowler said. "We have some private entities, like

Rural/Metro, but we don't have those other partners to rely on ... so we will be taking a hard look at moving towards that in the future."

The other noticeable projects in the city involve infrastructure, most notably the ongoing upgrades at the water restoration plant and the need for a new water treatment plant.

The water restoration plant — also known as the wastewater or sewage plant — is currently undergoing a \$23.5 million project to upgrade crucial systems that were so outdated they often led to failures at the plant.

That project is being financed by bonds, which city residents are paying off through 7 percent rate hikes in their sewer bills every year for three years. The first of three annual increases took effect in January.

Importantly, those upgrades

are called "Phase II," meaning more work is still to be done.

Speaking of rate increases, the construction of a new water treatment plant, needed to replace the Depression-era facility on Southeast M Street, will also require rate hikes.

The current water plant is deteriorating and unlikely to survive even a moderate earthquake, let alone the massive Cascadia event that officials say the region is long overdue for.

Key questions still remain about the size and location of the plant, and rate hikes are on hold until those elements are known, though the project carries a current estimated price tag of \$56 million.

Fowler called it the "single largest project this city has ever undertaken."

Stormwater is another big

undertaking, with Public Works hiring a new assistant director to help oversee the implementation of projects involving wastewater.

These are needed to comply with new state regulations, not to mention to address the flooding concerns created by Grants Pass growing and becoming increasingly more urban.

Fowler acknowledged the feeling that all this is hitting Grants Pass at once, but that these decisions couldn't keep being kicked down the road.

"We'll continue approaching (these goals) with the same zeal and tenacity, just as we have for years," he said. "We have to continue our leadership of never pushing off the hard decisions."

Reach reporter Troy Shinn at 541-474-3806 or tshinn@thedailycourier.com

## Kruse From 1A

With the bulk of the district in Douglas County, commissioners there get 16 votes apiece, compared with 2.3 votes for Josephine County commissioners and only .3 votes for each Jackson County commissioner.

Commissioners in Coos and Curry get 5.7 and 5.3 votes, respectively.

Because Kruse is a Republican, sometime next month commissioners are expected to act on nominations from a convention of GOP precinct committee persons. That group are expected to meet March 24.

Names floated so far for possible replacements include state

Rep. Dallas Heard, Roseburg, whose House District 2 extends into northeast Josephine County nearly to Merlin and encompassing Wolf Creek and Sunny Valley.

Another possible candidate is state Rep. David Brock Smith, R-Port Orford.

Kruse resigned effective Thursday, following an investigation that determined he had harassed at least eight women in the Capitol building with prolonged hugging, groping and other unwelcome physical contact. Kruse maintains his innocence.

The Oregon Secretary of State's Office is overseeing the process.



SMITH



HEARD

## Aviation From 1A

A few hours into the flight, off the coast of eastern Canada, she had to turn around because an antenna on the wing came loose and started whacking the side of the plane.

She actually thought about ditching the whole adventure, but persevered.

"I thought if there was ever a time I needed to be brave, this was it," she said. "So many kids wrote to me and said 'I can't believe you're flying around the world.' I thought: 'I have to continue.'"

She did, stopping at the Azores, Spain, Sardinia, Greece, Egypt, Dubai, India, Thailand, Australia, Fiji, and Hawaii before kissing the ground upon reaching California.

The students also heard about the Horizon Air Pilot Development Program, from LaMar Haugaard of Alaska Airlines, which owns Horizon.

The program could result in a few students receiving \$7,500 for flight training and a guaranteed interview with Horizon down the road.

A deal is in the works with Pacific Aviation Northwest of Grants Pass, the fixed base operator at the Grants Pass Airport.

"I hope you people here today fully grasp the message you just heard," Haugaard said of Waiz's story.

He added that a serious pilot shortage made Thursday's event even more pertinent.

"You folks have a tremendous opportunity," he said. "This industry is wide open. The demand for pilots in this country outstrips the entire pilot population of regional carriers — 17,000."

Students were bused in from Jackson and Josephine counties.

"It made me want to at least look into being a pilot more," added Carson Lowe, a Rogue Community College student. "It opened my eyes to the opportunities in this area, to get started in aviation."

Larry Graves, manager of Josephine County Airports, helped organized the event along with Caleb LaPlante, board member for Southern Oregon Air Academy.

The air academy, a week-long summer school at the Grants Pass Airport that is now approaching its third year, dovetails with the push to get more young people into aviation.

"If I could have gone to something like this in high school ..." Graves said. "I wasted 10 years trying to figure out what I wanted to do."

Graves said Dutch Bros. pilots Chad Hermanson and Brett Hopper, who also spoke to students at the event, are examples of local people who met their goals of flying.

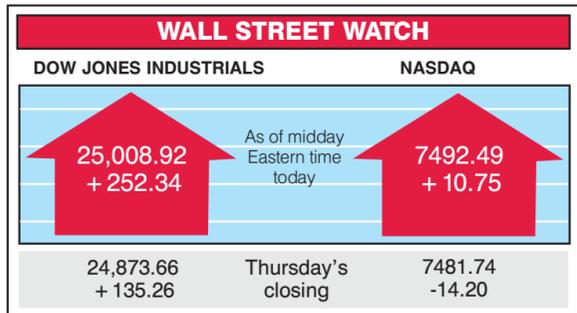
"They grew up here, they live here, they raise families here," Graves said.

Reach reporter Jeff Duewel at 541-474-3720 or jduewel@thedailycourier.com



TIMOTHY BULLARD/Daily Courier

Skylee Sansaver, 15, tries the co-pilot's seat in an Erickson Air-Crane helicopter at the "Discover the Magic and Wonder of Flight" event held at the Dutch Bros. hangar at the Grants Pass Airport Thursday. Sansaver eventually wants to join the Air Force, she said.



## New York Exchange

NEW YORK (AP)	CocaCola	43.68	+0.01	Hess	48.76	+0.15	Praxair	153.96	-1.71
Today's noon New York Stock Exchange selected prices:	ColgPalm	69.61	+0.05	HonWllInt	152.22	+1.15	ProctGam	79.03	+0.36
Stock	ConocoPhil	54.48	+0.45	Idacorp	84.75	+0.72	RockwAut	183.99	+2.23
AT&T Inc	ConEd	76.81	+0.23	IBM	161.39	+1.78	SmptraEn	111.67	-0.54
AerojetR	CurtisWrt	136.92	+1.46	IntPap	54.90	+0.48	SouthCo	43.92	-0.01
Altria	Deere	163.16	+3.56	JohnJn	133.02	-0.04	Tegna	12.63	+0.09
AEP	Disney	103.74	+0.50	Loews	51.29	+0.35	Textron	59.09	+0.09
AmIntGrp	DowDuPnt	68.51	+0.63	LaPac	29.87	+0.76	3M Co	237.48	+1.61
AplIndIT	Eaton	81.20	+0.93	MDU Res	27.20	-0.42	TimeWar	96.82	-0.06
Avon	EdisonInt	64.16	+0.16	MarathnO	15.12	+0.21	Timken	45.40	+0.60
BP PLC	ExxonMbl	74.79	+0.37	McDnDs	162.30	+0.69	TrContl	27.29	+0.30
BkofAm	FMC Corp	82.89	+1.82	McKesson	152.94	-1.02	UnionPac	138.18	+1.92
BarickG	FootLockr	44.28	+0.92	Merkc	55.84	+0.39	Unisy	11.48	+0.28
Boeing	FordM	11.19	+0.12	NCR Corp	35.05	+0.42	USSteel	40.15	+1.72
BrMySq	GenDynam	223.30	+0.70	NorrlkSo	139.19	+1.56	VarianMed	125.65	+0.27
Brunswick	GenElec	14.29	-0.07	NorthropG	341.46	+0.64	VerizonCm	48.60	+0.31
Caterpillar	GenMillis	50.75	-0.18	OcciPet	64.07	+0.16	ViaCorp	55.15	+0.45
Chevron	GenMotors	37.96	+0.11	Olin	31.45	+0.15	WallMart	88.86	+1.35
Citigroup	HP Inc	23.76	+0.28	PG&E Cp	45.05	+0.88	WellsFargo	57.03	+0.20
	Hallbrtn	45.87	+0.58	Penney	3.10	+0.07			
	HeclaM	3.85	-0.01	Pfizer	36.98	+0.40			

## Commodities

**Gold**  
Selected world gold prices, today.  
London morning fixing: \$1323.35  
London afternoon fixing: \$1318.75  
NY Handy & Harman: \$1318.75  
NY Handy & Harman fabricated: \$1463.81  
NY Engelhard: \$1321.89  
NY Engelhard fabricated: \$1421.03  
NY Merc. gold: \$1316.80  
NY HSBC Bank USA: \$1317.00

**Lumber**  
Chicago Mercantile  
LUMBER 110,000 bd. ft. \$ per 1,000 bd. ft.  
Open High Low Settle Chg.  
May 18 493.3 496.0 487.5 489.9 -4.5  
Jul 18 482.0 483.1 475.0 480.0 -3.4  
Sep 18 464.7 468.4 464.7 468.4 +4  
Nov 18 447.1 447.1 447.1 447.1 +1.1  
Jan 19 432.1 432.1 432.1 432.1 -3.9  
Est. sales 311 Thu / sales 677

## Metals

NEW YORK (AP) - Spot nonferrous metal prices today. Aluminum - \$0.9506 per lb., London Metal Exch.  
Copper - \$3.1110 (pound) NY Merc spot

## Staff From 1A

So intense was the swirl of speculation about McMaster that White House spokeswoman Sarah Huckabee Sanders tried to tamp things down late Thursday by tweeting: "Just spoke to @POTUS and Gen. H.R. McMaster - contrary to reports they have a good working relationship and there are no changes at the NSC."

This account of the tensions in the White House is based on conversations with 10 officials inside the White House and familiar with West Wing deliberations, all of whom spoke on condition of anonymity because they were not authorized to discuss internal matters.

After more than 14 months in office, Trump is reshaping his administration, seeking people more likely to fall in line with his policies and tolerate his moods. The factionalism that defined the early days of his tenure has faded and he has lost some of the close aides who could manage his volatile impulses. To some, the White House is increasing taking on the feel of a team of cheerleaders more than a team of rivals.

While dismissing news reports of looming departures, Trump also appeared to signal more changes to come on Thursday, telling reporters: "There will always be change."

Trump's administration has set records for turnover among senior administration aides. Top economic adviser Gary Cohn and communications director Hope Hicks are leaving the White House in coming weeks. Secre-

tary of State Rex Tillerson was just unceremoniously ousted. And junior-level aides were particularly troubled by the abrupt exit of Trump personal assistant John McEntee this week, who was removed from his job and escorted off White House grounds — then quickly handed a job on Trump's re-election campaign.

In private conversations in recent weeks with aides and friends, Trump has reflected on his desire to reshape the administration. Though the drumbeat of the ongoing Russia probe has only grown louder, the president believes that his recent decisions on tariffs and North Korea have breathed new life into his administration, and he is eager to take more "bold steps" that make his own mark. He has told confidants he wants to rid himself of staffers who hold him back.

Trump chafes at McMaster's demeanor, complaining that his aide lectures him, according to three current and former administration officials. Officials said McMaster has been sidelined in some internal discussions, with Kelly taking on a more active role in foreign policy decisions, because of the personal tensions.

The president and McMaster have disagreed on a number of issues — including the Iran deal and the U.S. approach to North Korea — and the national security adviser has also clashed with Kelly and Defense Secretary James Mattis, according to the officials.

McMaster, in turn, is not a natural fit for the scattershot policy-making process in the White House and dislikes the

internal rivalries that so often divide the West Wing. He was the target of online attacks from the fringes of the right wing last summer, including for his alleged insufficient support of Israel.

During an earlier round of Trump discontent with his national security adviser, there was White House talk of providing McMaster, a three-star general, with a soft landing by giving him a fourth star along with a command in a priority area such as Afghanistan or Korea, according to a former senior administration official.

Kelly has been credited with imposing order on the chaotic West Wing, but his relationship with Trump has come under strain too.

Trump was said to be deeply irritated and to have considered firing Kelly over the negative publicity surrounding his handling of the controversy over ousted White House aide Rob Porter, who was accused of domestic abuse. The president also recently told an ally that he was still frustrated by an interview that Kelly gave to Fox News nearly two months ago in which he suggested that Trump had "evolved" in his thinking about the need for a wall on the Mexican border.

At least one of Trump's "generals" — the collection of military advisers he used to boast about — remains largely in good standing. The president is said to remain pleased with Mattis, as the defense secretary rarely publicly disagrees with Trump and has succeeded in quietly working through any differences, according to three White House officials and outside

advisers.

Trump has expressed frustration with aides whom he believes try to "manage" him according to several current and former White House officials — and has grown tired of efforts by his staff to stall controversial actions they disagree with. Trump, the officials said, wants a lively discussion — he often talks about enjoying conflict among his aides — but has grown irritated that some try to undermine his decisions.

As Trump reshapes his administration, those who are taking over some of the vacated administration jobs tend to have closer ties to the president and signal more willingness to buy into his ways.

Trump's nominee to be the next secretary of state — CIA director Mike Pompeo — is a longtime favorite of the president who has demonstrated rare ability to navigate the West Wing. A campaign supporter of Trump's, Pompeo developed a strong personal relationship with the president by regularly attending his daily intelligence briefing.

And Trump has known his pick to replace Cohn for decades. He's CNBC contributor Larry Kudlow, who opposes taxing foreign imports, yet still says he's "in accord" with Trump's agenda.

## Mural From 1A

"I was surprised to find so many," he said. "Let's put it this way: I got schooled in this process of learning about schools."

It was too much to get onto one wall inside the center, so the project went outside into the hallway and took up three walls, Marshall said.

While there Monday for a final look, Marshall said he talked to a few students.

"They had no idea there were so many schools in Oregon," Marshall said. "Also I didn't realize what a thoroughfare that hallway is" for the students.

Marshall has done many projects for schools in the area, dating back to soon after he moved here 15 years ago.

Jerome Prairie Principal Patti Davidson first hired him to paint a Kelso wheel at the school, a diagram intended to help students solve disagree-

ments peacefully. That was the first of many — he's painted over a dozen on schools around the Rogue Valley.

Along the way, he's also painted mascots on many gym and cafeteria walls and other projects.

Though the budgets are always "slim" for school projects, Marshall said he loves doing the work because it's helping young people. He and his wife are also foster parents.

Marshall said he hopes his mural of excited graduates throwing their mortarboards in the air is the first of many he paints at local high schools.

"We know that the youth of this town is really the future," Marshall said.

The project may not be the last at GPHS, Thompson said. "I think a mural can really highlight your ideals."

Reach reporter Edith Decker at 541-474-3724 or edecker@thedailycourier.com.

# Pet of the Week

**MINI PET MART** presents

**ROGER**  
Roger here, I'm a 20-month-old neutered Boxer/American Bulldog, and a 70 lb. lap dog! I'm quite exuberant and love to play, so I may accidentally knock over tiny people, or love them to the ground, so caution may be prudent. I like dogs but I've not been around cats, so who knows? I'm eager to learn everything!

**KITTY KITTY**  
They call me Kitty Kitty and playing is my favorite thing to do. It doesn't take much to get me going...I'll chase anything that moves! I love people and other kitties. I'm a spayed Torti Tabby, only 1 year old, and I'm so sad 'cuz my family had to move and couldn't take me with them. Can I come home with you?

**LOU**  
I'm Lou, a 3-year-old, neutered Catahoula Leopard Dog mix. I'm a people-pleaser and I do have manners, I just haven't been indoors much, so if you want a house dog, you'll have to show me the boundaries. I'm obedient, so I'll catch on quickly. Play with me, take me for walks, cuddle with me, I want to be your fur-ever friend!

**Rogue Valley Humane Society • 429 Scenic Dr. • 541-479-5154**  
Off Scoville Rd. Open: Monday-Friday & Saturday, 12:00-4:00

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MARCH-MAY 2019



# AFTER SCHOOL DRONE PROGRAM

ACADEMY OF MODEL AERONAUTICS (AMA)  
LICENSED CURRICULUM

## THE PROJECT MARCH-MAY 2019

Each after school site will establish a drone team consisting of 10 members in the club. All team members will start by completing ground school including the FAA Part 107 Unmanned Aircraft Regulations course and then move into building and drone programming to compete in a mission in Grants Pass later this spring.

This incredible opportunity has been provided by SOAA through a partnership with various agencies in Southern Oregon and in collaboration with Rogue Valley Flyers will be offering an after school Drone Club licensed by the Academy of Model Aeronautics(AMA) and sanctioned by Rogue Valley Flyers RVF).

## AMA UAS4STEM

**Concept:** STEM program from the Academy of Model Aeronautics! UAS4STEM is designed to encourage students to explore the UAS (drone) phenomenon, teamwork, competition, and success through STEM. The teams will then meet at the Grants Pass Skypark in conjunction with Rogue Valley Flyers and AMA Judges for a fly off demonstration.

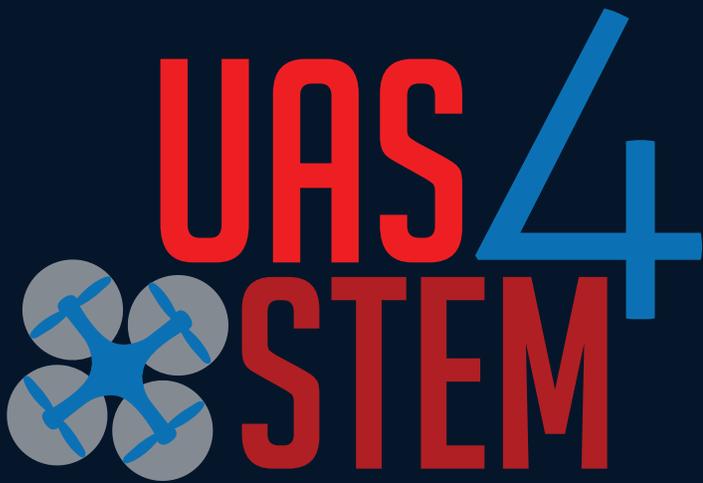
## THE MISSION

Teams will complete a mission using a drone in support of a Search and Rescue (SAR). To support this mission, your UAS must comply with Special Instructions (SPINS) for departure and arrival procedures, and then remain within the assigned airspace. You will be tasked to search an area for items of interest and to conduct point reconnaissance. A UAS that can accurately deliver supplies and information where directed will be in high demand!

# UAS4STEM

HIGH SCHOOL TEAM  
RULEBOOK 2018





If you have questions about the UAS4STEM program, please contact Jessica Symmes at [jessys@modelaircraft.org](mailto:jessys@modelaircraft.org), or by calling 1-888-829-4060.



5161 E. Memorial Dr., Muncie IN 47302  
(765) 287-1256 | Fax (765) 289-4248  
[ModelAircraft.org](http://ModelAircraft.org)

[UAS4STEM.ORG](http://UAS4STEM.ORG)

# TEAM HIGH SCHOOL RULE BOOK

## 1. CONCEPT OF OPERATIONS (CONOPS)

A small group of people are stranded after a flash flood. While rescuers have determined a search area, they are unsure of the exact whereabouts and conditions of those stranded. Your team has been called upon to provide rapid response, via an Unmanned Aircraft System (UAS), that can support the Search and Rescue (SAR) mission. In order to support this mission, your UAS must comply with Special Instructions (SPINS) for departure and arrival procedures, and then remain within assigned airspace. It will be tasked to search an area for items of interest and to conduct point reconnaissance.

## 2. INTRODUCTION

### 2.1. THRUST

2.1.1. The principal thrust of the UAS4STEM Drone Challenge is the safe application and execution of Systems Engineering principles to develop and operate a Quadzilla UAS to successfully accomplish the mission tasks.

### 2.2. SCORED ELEMENTS

2.2.1. The five scored elements of this competition are:

2.2.1.1. Flight Plan Report

2.2.1.2 Oral Briefing of a Flight Readiness Review (FRR)

2.2.1.3 Flight Mission Demonstration-Waypoint Challenge and Target Challenge

2.2.1.4 Overall Safety Score 2.2.1.5 Team average score from Online Ground School

### 2.3. OPPORTUNITIES

2.3.1. Student teams will be judged based on their performance and that of their system. Trophies will be awarded for top performances. Opportunities for interaction with UAS engineers, scientists and leadership will be provided.

### 2.4. RULES

2.4.1. The Search and Rescue competition will be based upon the competition rules outlined within this document containing administrative and performance objectives. These rules are aimed at a high school level curriculum. These rules may be updated with clarifications or updates and posted as the official rules for competition. The UAS4STEM committee reserves the right to make changes to these rules and issue updates or addendums at any time.

## 3. SCHEDULE

3.1. **DATES AND LOCATIONS** (subject to change) See [www.uas4stem.org](http://www.uas4stem.org) for updated scheduling information

## 4. MAJOR ELEMENTS OF THE COMPETITION

### 4.1. REGISTRATION PROCESS

4.1.1 Once the teachers/sponsors send their email address via the registration form, logins for teachers/students for online curriculum will be created.

4.1.2 It is required that all student members of the team successfully complete the online Fly Robotics UAS4STEM Ground School and become student members of Academy of Model Aeronautics (AMA).

4.1.3 By participating in the Search and Rescue competition, the team, advisors and all support members, as well as judges and volunteers, agree to have any pictures of persons, vehicles or equipment photographed and released to the public on web pages, in papers and published trade magazines and journals, or posters.

### 4.2. PROOF-OF-FLIGHT

4.2.1 Prior to the competition, a proof-of-flight video shall be submitted as proof that the team's aircraft can attain, sustain, and land in a safe manner.

4.2.2 The proof-of-flight video does not need to have the craft in full autonomous configuration. It is

acceptable to demonstrate a Radio Controlled (RC) flight.

- 4.2.3 The proof-of-flight video shall identify the school and the team name. The video shall show the vehicle demonstrating safe Takeoff, Flight, and Landing.
- 4.2.4 A text file containing a link to the team's video posted on the internet (www.youtube.com is preferred) shall be submitted by the specified date and time deadline

### **4.3. SAFETY INSPECTIONS**

- 4.3.1 Safety inspections shall include a physical inspection, and may include a fail-safe check, and flight termination check.
- 4.3.2 Safety inspections shall be performed on all aircraft by designated competition safety inspectors prior to being allowed to make any competition flight.
- 4.3.3 The safety inspections are not a scored element. All decisions of the safety inspector(s) shall be final.
- 4.3.4 Physical inspection of the aircraft shall include:
  - 4.3.4.1 Verify all components adequately secured to vehicle.
  - 4.3.4.2 Verify rotor structural attachment integrity.
  - 4.3.4.3 Visual inspection of all electronic wiring.
  - 4.3.4.4 Check general integrity of any payload system
  - 4.3.4.5 Verification of fail-safe mode operation covered by manual override and pilot-commanded flight termination may be requested by the judges.

### **4.4. FLIGHT READINESS REVIEW (FRR) BRIEFING**

- 4.4.1 The FRR shall be an oral briefing presented to a team of judges during which the teams substantiate, with data, their plans to safely accomplish the mission.
- 4.4.2 The intention is to demonstrate to the judges that the team is ready to compete safely, with low risk, in the flight mission phase of the competition. The FRR shall address the mission tasks the team plans to achieve during flight.
- 4.4.3 Following the FRR briefing, there will be a question and answer period, followed by an inspection of the team's UAS, including aircraft, ground station, test data, safety checklists, and other supporting evidence.
- 4.4.4 All team members present are encouraged to participate.
- 4.4.5 The FRR Briefing will be held at the flying location and will be oral only. Teams may use their aircraft or ground control station to demonstrate various aspects of the briefing. TEAMS MAY NOT POWER UP THE AIRCRAFT.
- 4.4.6 The FRR Briefing is a scored element worth TWENTY-FIVE Points. The FRR briefing will be assessed on the team's ability to effectively articulate the scope and depth of the developmental testing performed, the ability of the system design to perform the planned flight tasks, and the preparations made to improve the chances of a successful Flight Mission.
  - 4.4.6.1 The FRR briefing shall not exceed 15 minutes in duration, followed by a maximum period of 5 minutes where the judges will ask questions and the team shall answer. A judge will time the presentation, provide a 2 minute warning, and cut off extended presentations as needed.
  - 4.4.6.2 The breadth of the presentation will be scored based upon inclusion of the following elements with relative worth in percent:
    - 4.4.6.2.1 Team member introductions including flight mission roles and experience. (10%)
    - 4.4.6.2.2 A brief system overview relating to flight tasks planned, expected performance, and any risk evaluation. (10%)
    - 4.4.6.2.3 System Safety with identified design and operational strategies. (10%)
    - 4.4.6.2.4 Developmental Test Results including: test plan schedule (through ground testing to flight testing to mission performance testing), results of testing, and any corrective action taken to improve the effectiveness on mission. (30%) completion.
    - 4.4.6.2.5 Evidence of Mission Accomplishments. (10%)
    - 4.4.6.2.6 Pre-Mission Briefing, including personnel resourcing for the flight, communication procedures, Go/No-Go criteria and fallback plans should a technical issue arise during flight mission. (20%)

- 4.4.6.2.7 Team member participation and communication skills (clarity, accuracy, logic, precision, relevance, depth, and suitability). (10%)
- 4.4.6.2.8 Judges will ask 5 questions directly from the UAS4STEM Ground School Course. Each Question will be worth 1 point. Any team member may answer.

#### **4.5. FLIGHT MISSION REQUIREMENTS**

- 4.5.1 The flight Mission evaluates the teams' ability to conduct a mission operation with their vehicle. This is the culminating event and a scored element of the competition.
- 4.5.2 A lead judge will be assigned to each team at the flight line. It is important that all team members follow the instructions of the judges. There will be additional judges assigned who are focused on different aspects of the competition (imagery, autonomy, safety, teamwork, etc.) depending on which tasks the team is planning to accomplish.
- 4.5.3 Only systems presented in the FRR, inspected by safety inspectors, and included in the preflight brief will be permitted to fly.
- 4.5.4 OPERATIONAL TIMELINE
  - 4.5.4.1 Setup Time = 15 minutes maximum. Setup time begins when the team arrives at the flight line. A lead judge will be assigned to each team and will start a dedicated stopwatch after communicating with the team Captain. After the maximum time, the judge may declare mission start, regardless of the team's readiness to launch the mission.
  - 4.5.4.2 Flying Time = 30 minutes maximum.
    - 4.5.4.2.1 Flying Time shall start at the declaration by the Lead Judge who will have a dedicated Mission Clock Stopwatch.
    - 4.5.4.2.2 A team may elect to cycle through the takeoff and landing sequence during the flying time more than once for a variety of valid reasons (change batteries, load payload, etc). No points will be lost, but flying time continues to be used.
    - 4.5.4.2.3 Flying time stops when the vehicle has completed flight (landed, crashed, or terminated) and the team has turned off transmitters. The lead judge will confirm with the team captain that the flying time period has stopped and the post processing time period starts.
    - 4.5.4.2.4 Teams that are still flying after 30 minutes will be assessed a penalty of one point for each minute over the 30 minute time limit.
    - 4.5.4.2.5 Teams that are still flying after 40 minutes will be disqualified.
  - 4.5.4.3 Post Processing Time = 20 minutes maximum.
    - 4.5.4.3.1 Post Processing Time begins immediately after the flying time stops. This time is for data processing. No RF transmission shall be performed during Post Processing Time.
    - 4.5.4.3.2 Post Processing time stops when the team captain hands in the scoring sheets, or when the maximum post processing time is exceeded.
- 4.5.5 MISSION LIMITATIONS
  - 4.5.5.1 Mission Boundaries
    - 4.5.5.1.1 During the entire mission, aircraft shall remain in controlled flight and within the no-fly-zone boundary. A specific no-fly-zone boundary definition will be provided to teams following their FRR. Any vehicle appearing uncontrolled or moving beyond the no-fly-zone boundary during autonomous flight will be subject to immediate manual override. Failure of manual override will result in flight termination.

## Map of Competition Area (example)

- 4.5.5.1.2 Teams shall display their no-fly-zone (geofence boundary) prior to flight.
- 4.5.5.1.3 After takeoff and before landing, aircraft shall sustain flight at an altitude between 30 feet and 350 feet MSL for the duration of the mission. Flight below 30 feet or above 350 feet during autonomous flight shall require manual override. Failure of manual override will result in flight termination.
- 4.5.5.2 Takeoff
  - 4.5.5.2.1 Takeoff shall take place within the designated takeoff/ landing area, shown on the competition map.
  - 4.5.5.2.2 Takeoff under manual control with transition to autonomous flight will be permitted but does not count as an autonomous take off.
  - 4.5.5.2.3 The first takeoff will be scored, regardless if it is manual or autonomous. Only autonomous takeoff attempts on the first takeoff will earn points.
- 4.5.5.3 Landing
  - 4.5.5.3.1 Landing shall take place within the designated takeoff/landing area shown on the competition map.
  - 4.5.5.3.2 Landing under manual control is permitted.
  - 4.5.5.3.3 The first landing will be scored, regardless if it is manual or autonomous. Only a successful autonomous landing during the first attempt will earn points.

### MAP KEY

- Red outline: No-fly-zone boundary
- Blue outline: Waypoint sequence
- Green outline: Search area
- White Star: Designated Take/Off and Landing Area
- White Circle: Payload delivery Search Area



## 5. SYSTEM REQUIREMENTS

- 5.1. **Newly registered teams will be provided with materials needed to complete a Quadzilla UAS. If parts are damaged or destroyed they may only be replaced with comparable parts with the same specifications. TEAMS WILL NEED TO PROVIDE THEIR OWN LAPTOP. ONLY A SINGLE LAPTOP WILL BE ALLOWED ON THE FLIGHT LINE WITH THE TEAM OR DURING THE ORAL PRESENTATION. Landing gear of ANY type are required on all Quadzilla aircraft. The landing gear must ensure the bottom plate of the aircraft is at least 3" off the ground.**
  - 5.1.1 All antennas must be of stock type. No cloverleaf or other aftermarket antennas are allowed
  - 5.1.2 Upgraded items are optional this year and include ONLY:
    - Any arduino based autopilot system. These include, but are not limited to Pixhawk, and all versions of APM. Generic replacements are also acceptable.
    - 720p video camera
    - 250mw video transmitter
    - Multiple 3S – 4200mah, maximum 35C batteries. Teams may change batteries as often as desired during flight.
  - 5.1.3 All teams must use Mission Planner GCS Software. Version is not important. Step-by-step PDF documentation and a video guide to build the Quadzilla UAS can be found at [www.quadzillacooper.com/build/](http://www.quadzillacooper.com/build/)
- 5.2 In the pits and the airfield, the UAS4STEM Competition will ensure that teams are provided shade, a folding table, chairs and a single electrical power extension cord.

## 6. DESCRIPTION OF MISSION TASKS

The Flight Mission has been divided into a series of tasks. Teams do not need to complete every task. The available tasks are listed in this section with the associated scoring associated with each task.

### 6.1 Autonomous Flight Task

Parameter	Objective	Points
GCS Display Items	Accurately display current aircraft position. GCS must also display airspeed and altitude to operators and judges. This is a minimum requirement for flight approval.	N/A
Takeoff	Achieve controlled autonomous takeoff. Scored on first takeoff attempt. Pilot or ground station operator may activate button or switch to initiate the takeoff. Takeoff is complete when drone reaches an altitude $>$ or $=$ 100ft and hovers for a minimum of 5 seconds	Four points
Waypoint navigation	Capture waypoints and commands in sequence. Waypoints and commands will be chosen no less than 50 ft from the "no-fly-zone" boundaries and will be provided to teams following completion of their FRR. Waypoints and commands will be provided to the teams the morning of the competition. Capture waypoints in sequence while in autopilot control with $\pm$ 50 ft accuracy, and maintain navigation $\pm$ 50 ft. along the planned flight path. ANY ALLOWED MISSION PLANNER COMMAND MAY BE ALLOWED DURING WAYPOINT NAVIGATION. This may include, but it is not limited to, loiter, POI (Point of Interest), adjust airspeed and others. Failure to complete previous command will nullify any subsequent commands. Example: Waypoint 5 requires hold of 5 seconds. If aircraft fails to hold for proper time, the following waypoints will be scored ZERO. Team must announce to the judges which waypoint and command is being attempted	One point for each waypoint and command achieved in proper order. Maximum 10.
Landing	Achieve controlled autonomous landing. Scored on first landing attempt. Pilot or ground station operator may activate button or switch to initiate the landing.	Four Points



## 6.2 Search and Payload Delivery

Parameter	Objective	Points
Localization	Determine item location within 50 ft.	Points are given based on accuracy of location. 5 points for 0 – 10', 4 points for 11-20', 3 points for 21-30', 2 points for 31-40', and 1 point for 41-50'
Classification	Identify item characteristics. Multiple targets will then be used for precision delivery.	One point each
Package Delivery	A water balloon containing no less than 1 oz of liquid paint and 3 oz of liquid water will be dropped on identified target locations. Balloon must be dropped without intervention from the safety pilot. Balloon may be dropped using a mission planner command, or by a command by the GCS operator through mission planner. Balloon must be dropped at an altitude of 40' or higher. Lower altitude will mean a score of zero on the drop.	Points are given based on accuracy of location. 5 points for 0 – 10', 4 points for 11-20', 3 points for 21-30', 2 points for 31-40', and 1 point for 41-50'. Also bonus points of 15, 10, and 5 will be given to the 3 closest teams, regardless of location score as long as teams drop within 50'. MEANING IF DROPS ARE OUTSIDE 50' NO BONUS POINTS WILL BE GIVEN
Complete Solution	Locate, and Classify, items of interest.	Five points. Teams must identify location of all targets and receive a distance score for each target to qualify.

6.2.1 Waypoint and Payload Delivery missions are independent of each other.

Each must be completed separately before moving on to the other challenge.

6.2.2 The vehicle shall search for items of interest. Each items of interest will be located within the search area. Each items will be of 2 dimensions and contain a colored letter. A Red X will signify a payload delivery target.

## 6.3 Payload Delivery Specifications

6.3.1 Payload delivery mechanism must be designed and built by team members. No commercially available drop mechanisms allowed. Payload delivery mechanisms may be made out of the material of choice for each team. 3D printed, wood, and foam are just examples of allowed materials.

6.3.2 Payload delivery mechanism must be powered by primary battery source. No additional batteries are allowed on board.

6.3.3 Payload delivery mechanism may removeable and installed only for the drop portion of the event.

6.3.4 Each payload delivery mechanism must be capable of carrying a balloon filled with a minimum of 1oz of liquid paint and 3oz of liquid water. Teams may request larger balloons up to a maximum of 6 fluid ounces of liquid. Teams may carry multiple balloons simultaneously, up to a maximum of 3.

6.3.5 Teams must provide their own balloons for the competition. UAS4STEM organizers will fill and weigh each balloon before flight. **DO NOT BRING PREFILLED BALLOONS**

6.3.6 Each team may drop up to 2 balloons on any identified target.

6.3.7 Teams may return to launch point to load new payloads as often as necessary within the time permitted.

6.3.8 Payload must be dropped at an altitude of 40' or higher

## 7. SAFETY REGULATIONS

### 7.1. Flight Operations

- 7.1.1 Flight operations of any type involve some level of risk to personnel and property. It is the responsibility of all personnel involved in and around flight operations to identify, evaluate, and mitigate risks to the maximum extent possible.
- 7.1.2 When teams are conducting flight tests, extra precautions must be in place to protect team members and others.
- 7.1.3 It is required that teams use an experienced RC Pilot to act as Safety Pilot for any test flights. This should be one of the mentors assigned to the team.
- 7.1.4 A Safety Score of a maximum of 10 points will be awarded.

### 7.2 The System

- 7.2.1 The system shall provide sufficient information to operators on a continuous basis to ensure that it is operating within no-fly/altitude boundaries.
- 7.2.2 The aircraft shall be capable of manual override by the safety pilot during any phase of autonomous flight.
- 7.2.3 The flight termination system, activated by a single switch, shall be capable of overriding all flight modes and executing the Return-To-Land command.
- 7.2.4 The aircraft shall automatically Return-to-Land (takeoff location) after loss of primary communications link signal within 5 seconds.

### 7.3 Other

- 7.3.1 No more than ten (10) team members will be allowed in the mission area.
- 7.3.2 Open toed shoes/flip flops should not be worn during safety inspections, flight line operations, or when rotors are powered.
- 7.3.3 Officials have the right to disqualify an entry or a team that they deem to be a hazard.

## APPENDIX B: ITEM REPORT SHEET

Use this sheet for submitting search results.

School Name: \_\_\_\_\_

Team Name: \_\_\_\_\_

ITEM NUMBER	ITEM DESCRIPTION	LATITUDE*	LONGITUDE**
1			
2			
3			
4			
5			

\*Latitude in the following format: Degrees to the 6th decimal place with positive indicating North Latitude and negative indicating South Latitude

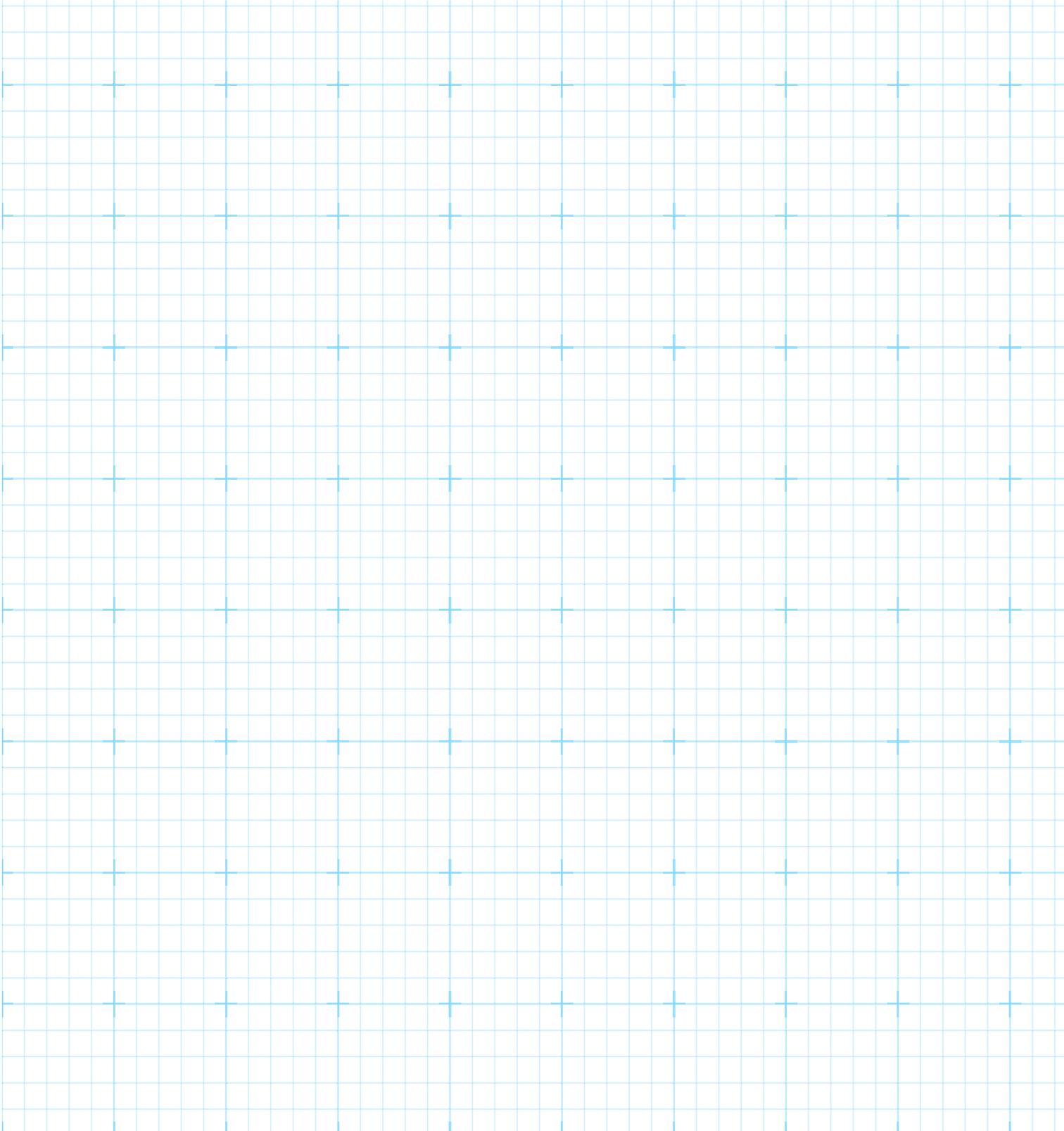
Example: 38.365458

\*\*Longitude in the following format: Degree to the 6th decimal place with positive indicating East Longitude and negative indicating West Longitude

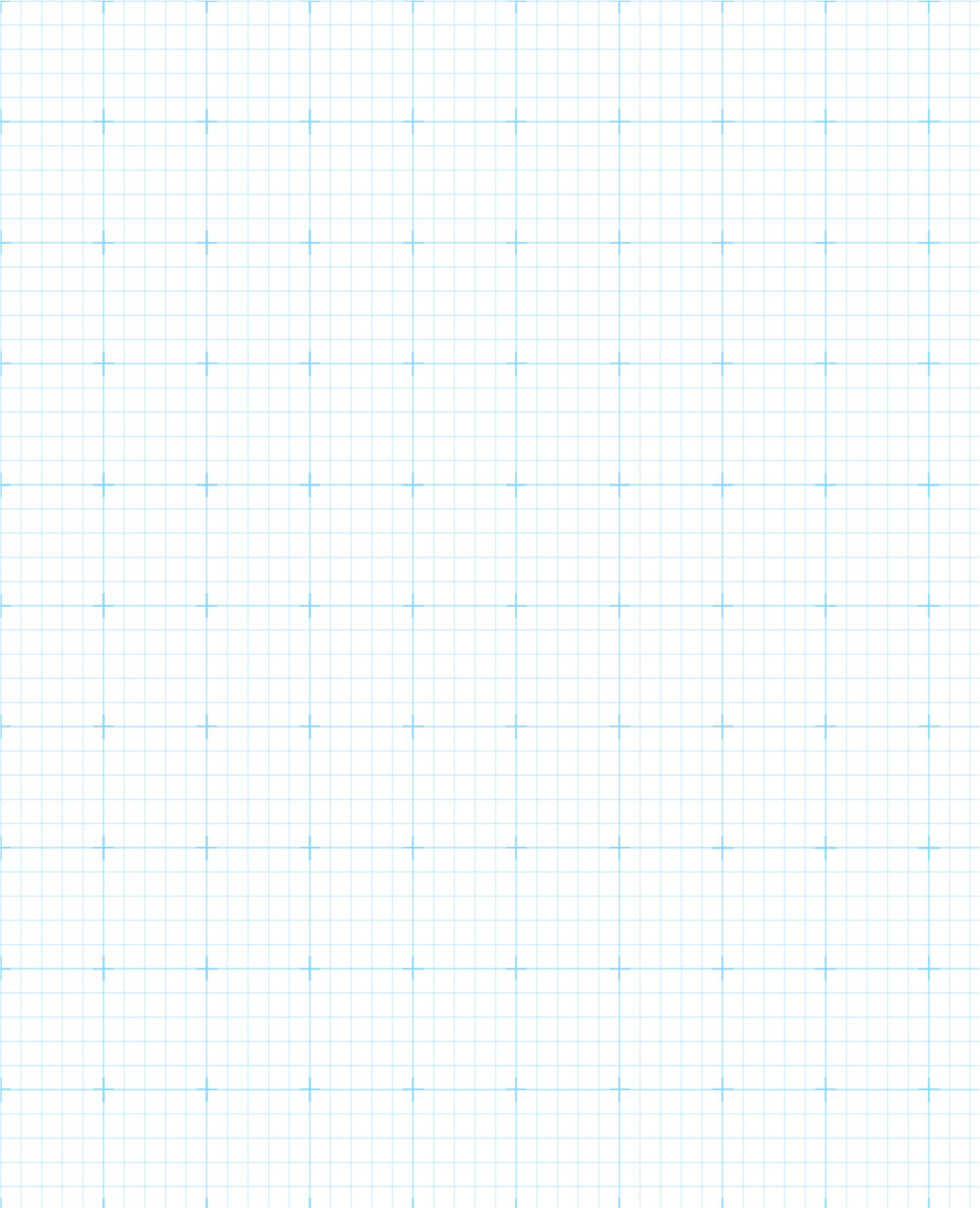
Example: -76.539108

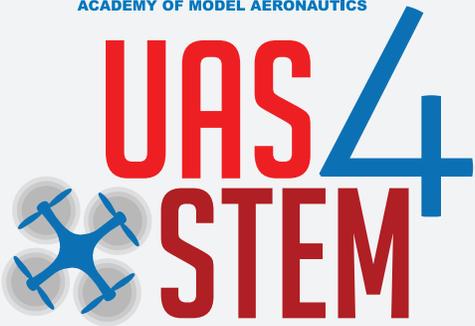
**APPENDIX D: MENTOR GUIDELINES AND EXPECTATIONS**

- Complete necessary site specific requirements to be an approved volunteer
- Agree to exchange contact info with sponsor teachers at your designated site
- Aid students in completing AMA registration
- Aid schools in registering with AMA as a MASC club
- Agree to meet with teams at a minimum of two times a month
- Photo documentation



**NOTES**





## Introducing a new STEM program from the Academy of Model Aeronautics!

UAS4STEM is designed to encourage students to explore the sUAS (drone) phenomenon, teamwork, competition, and success through STEM.

# SEARCH AND RESCUE CHALLENGE

**THE MISSION:** A small group of hikers has gone missing in a remote area. Your team has been called upon to provide rapid response using a small Unmanned Aircraft System (sUAS) that can support the search-and-rescue mission.

**ELIGIBILITY:** Teams consist of between four and ten members. All team members must be between 11 and 19 years old. All competitors are required to complete the sUAS ground school curriculum before kit shipment.

**COST PER TEAM:** \$1,995

Price Includes:

- Ten sUAS Ground School licenses
- Quadzilla quadcopter
- AMA membership
- Regional and national competition entrance
- No additional regional or national event entry fees



For additional details and information, visit:

[WWW.UAS4STEM.ORG](http://WWW.UAS4STEM.ORG)



Academy of Model Aeronautics  
5161 E. Memorial Dr., Muncie IN 47302  
(765) 287-1256 | Fax (765) 289-4248  
[www.amaflightschool.org](http://www.amaflightschool.org)

April 22, 2019

Senator Fred Girod; Representative Paul Holvey; Senator Peter Courtney; Senator Betsy Johnson; Senator Elizabeth Steiner Hayward; Senator Chuck Thomsen; Representative Tina Kotek; Representative Mike McLane; Representative Nancy Nathanson; Representative Greg Smith

900 Court St.  
NE Salem, Oregon 97301

Re: HB 5030 Regional Infrastructure Fund (RIF)

Members of the Ways and Means Subcommittee on Capital Construction:

I am writing to offer my strong support for the the Governor's Regional Solutions Program and the Regional Infrastructure Fund (RIF) part of Business Oregon's budget.

I am the Founder and President of Southern Oregon Air Academy, and in 2018 our organization applied for RIF funding. While selected by the local committee as one of three finalists from our region, we were ultimately not selected by the state committee, but included as an alternate.

If we had been selected last year, the RIF funding would have allowed us to renovate a 10,000 sq. ft. facility on the Grants Pass Airport grounds, to create a high-tech, CTE campus for youth interested in aviation and aerospace careers (see attached maps and SOAA RIF application).

SOAA intends to apply again for funding in the next biennium, likely for Phase II development of our campus – or again for Phase I funding, if that has not already been secured by then.

RIF is an incredible source of funding for rural-based, industry-driven programs like ours.

- locally-oriented, ultimately reflecting regional priorities and opportunities
- flexible parameters, unlike many sources of capital funding, that come w/many restrictions
- funds are distributed to all part of the state, as opposed to other centrally-located funds
- creative, innovated projects are inspired - and often ignited - by the large size of RIF

Thank you for this opportunity to communicate our support for vital rural funding opportunities like RIF that fuel industry revitalization and workforce development efforts in all Oregon communities.

Sincerely,



Caleb LaPlante  
(541) 646-0068

Founder and President | Southern Oregon Air Academy | [www.soairacademy.com](http://www.soairacademy.com)  
Founder and President | Take Flight Oregon | [www.takeflightoregon.com](http://www.takeflightoregon.com)  
Founder and Chairman | Grants Pass Balloon & Kite Festival | [www.gpballoonfest.com](http://www.gpballoonfest.com)