Kansas State University Salina

Aerospace Education Hub
Aerospace and Technology Campus
PROGRAM

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Introduction

Kansas State University Aerospace and Technology Campus is located in Salina, Kansas. Salina is a city of 46,000 located in central Kansas at the intersection of interstates 70 and 135. The campus is adjacent to the Salina Regional Airport and has tarmac access for its aviation programs.

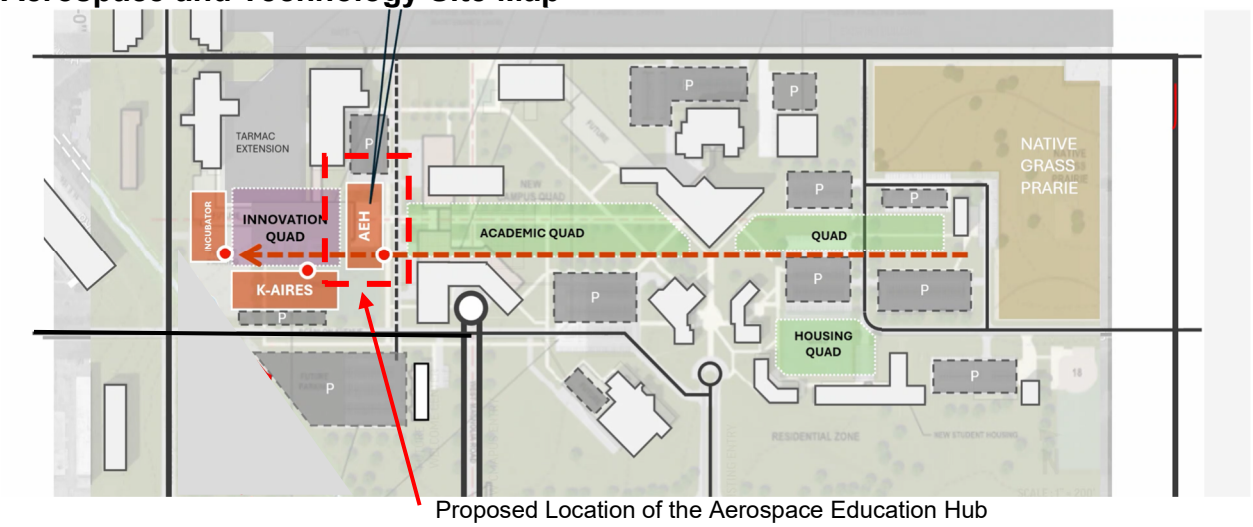
Kansas State University Salina Aerospace and Technology Campus's mission is to develop global leaders and foster talent development and innovation in aerospace, technology, and specific needs of the region. K-State Salina proudly stands today as one of three campuses in the Kansas State University system.

Given its central location and aviation history, the Aerospace and Technology Campus has become a magnet for industry and research focused on aerospace technologies. The 2022 announcement of a $10M investment in the Campus by the General Atomics-ASI corporation kicked off a flurry of development on campus. Following the K-AIRES project, the Aerospace Education Hub is the second fully funded project to be ready for construction. The building will house the Applied Aerospace Research Center, the Aviation Maintenance Training Center and the Advanced Composites Lab. **This program statement is for the future Aerospace Education Hub building.**

The Applied Aerospace Research Center (AARC) is at the forefront of UAS research that influences and enhances UAS regulations and increases capabilities, founded on crewed aviation's culture of safety. The AARC staff is comprised of subject-matter experts, connecting with industry to provide training, consulting, collaboration and research. The Aviation Maintenance Training Center provides hands-on training of the most up-to-date maintenance procedures in order to produce graduates prepared to obtain FAA licensure and begin lucrative careers at the major airlines or maintenance, repair, and overhaul (MRO) facilities around the country. The Advance Composites Lab not only trains students in the art and science of composite repair and fabrication, but also conducts research on future composite technologies. Taken together, the Aerospace Education Hub will be the most advanced training and research facility of its kind in the country.

The campus administration has confirmed program requirements for the facility which is sized to meet the needs for K-State Salina and the academic and research units who will operate within.

Aerospace and Technology Site Map



Proposed Location of the Aerospace Education Hub

Project Description - Space

The Aerospace Education Hub will encompass 50 – 65,000 GSF of classroom, office, lab, and hangar space. The Aviation Maintenance Training Center will use approximately 43,993 GSF, the Applied Aerospace Research Center will be housed in approximately 12,768 GSF and the Advanced Composites Lab will utilize approximately 5,211 GSF.

(AVM) Faculty & Program Offices					
Area	Qty	NSF Ea.	NSF	Net-to-Gross	GSF
Faculty Offices	5	120	600	71%	845
Engineering Technician	1	120	120	71%	169
Subtotal - Faculty & Program Offices			**720**		**1,014**
(AVM) Power Plant Overhaul Lab					
Area	Qty	NSF Ea.	NSF	Net-to-Gross	GSF
Power Plant Overhaul Teaching Lab (25-Students)	1	1,600	1,600	71%	2,254
Class Lab Service Space - Sandblast	1	140	140	71%	197
Class Lab Service Space - Storage	1	140	140	71%	197
Class Lab Service Space - Battery Storage	1	140	140	71%	197
Lab Prep / Storage	1	330	330	71%	465
Subtotal - Power Plant Overhaul Lab			**2,350**		**3,310**
(AVM) Aircraft Maintenance Hangar					
Area	Qty	NSF Ea.	NSF	Net-to-Gross	GSF
Aviation Hangar	1	18,000	18,000	71%	25,352
Class Lab	2	990	1,980	71%	2,789
Collaboration Zone	1	1,520	1,520	71%	2,141
Sheet Metal Work Zone	2	550	1,100	71%	1,549
Electrical Work Zone	1	550	550	71%	775
Welding Lab	1	550	550	71%	775
Class Lab Service	1	500	500	71%	704
Tool Crib	1	550	550	71%	775
Training Aids / Landing Gear Storage / Run Stands Storage	1	1,865	1,865	71%	2,627
Consumable Storage	1	550	550	71%	775
Subtotal - Aircraft Maintenance Hangar			**27,165**		**38,261**
(AVM) Student Study					
Area	Qty	NSF Ea.	NSF	Net-to-Gross	GSF
Student Study Space	4	250	1,000	71%	1,408
Subtotal - Student Study			**1,000**		**1,408**
(AVM) SPACE SUMMARY TOTAL			**31,235**	**71%**	**43,993**

(UAS) Faculty & Program Offices					
Area	Qty	NSF Ea.	NSF	Net-to-Gross	GSF
UAS Faculty Offices	15	120	1,800	71%	2,535
UAS Department Head	1	165	165	71%	232
Subtotal - Faculty & Program Offices			**1,965**		**2,768**
(UAS) Teaching Lab					
Area	Qty	NSF Ea.	NSF	Net-to-Gross	GSF
UAS Garage	1	2,700	2,700	71%	3,803
UAS Teaching Lab	1	2,700	2,700	71%	3,803
UAS Prep Lab / Storage	1	350	350	71%	493
UAS Simulation Room	1	350	350	71%	493
UAS Classroom	1	1,000	1,000	71%	1,408
Subtotal - Teaching Lab			**7,100**		**10,000**
(UAS) SPACE SUMMARY TOTAL			**9,065**	**71%**	**12,768**

Composite Materials Teaching Lab					
Area	Qty	NSF Ea.	NSF	Net-to-Gross	GSF
Composite Materials Teaching Lab	1	1,350	1,350	71%	1,901
Composite Materials Spray Room	1	500	500	71%	704
Storage	1	500	500	71%	704
Research and Support Space	1	1,350	1,350	71%	1,901
Subtotal - Composite Materials Teaching Lab			**3,700**		**5,211**
COMPOSITE MATERIALS SPACE SUMMARY TOTAL			**3,700**	**71%**	**5,211**

The project will be designed in accordance with the currently adopted codes and regulations of the Office of Facilities and Property Management-Design, Construction & Compliance, and the Office of the State Fire Marshal. Additionally, the project is to comply with OFPM-DCC Building Design and Construction Manual and University Standards.

Building Location

The Aerospace Education Hub will be located on the south side of campus at the southwest corner of Neeley Road and Scanlan Ave. The space is currently green space. All utilities and services are available in close proximity.

Building Concept

Budget Summary

Estimate of Project Costs	
Construction (Construction Cost, etc.)	$20,529,000
Design Fees (Architect, Engineer, other Consultants)	$936,000
FF&E (Movable Equipment)	$4,000,000
Miscellaneous Costs (Administrative fees, construction testing, survey, internal labor, etc.)	$135,000
Contingency (10% of Construction)	$2,400,000
Total Project	**$28,000,000**

Funding

K-State Salina was awarded a federal NIST grant for FY24 in the amount of $28 million for the construction of the Aerospace Education Hub.

Maintenance

The annual costs of operations, maintenance, and utilities are estimated as follows.

Description	Cost/sf	Total
Operations and Maintenance	$3.23 x 61,972 SF	$ 200,170
Utilities	$3.50 x 61,972 SF	$ 216,902
Total Estimated Annual Cost		**$417,072**

Tentative Timeline/Schedule	Date
Programming (Project Concept)	April 2024
KBOR Program Approval	May 2024
Design	August 2024 – April 2025
Code Review and Permitting	April – May 2025
Bidding	May 2025
Construction Start	August 2025
Substantial Completion/Punch List	July 2026
Final Completion/Occupancy	August 2026