



White Paper Webinar Series

Strengthening the Pipeline from Service to STEM

A series focusing on the future of Women Veterans in STEM



Women
Veterans

Oct 13



Transition
Services

Oct 20



STEM
Workforce

Oct 27



STEM
Education

Nov 10



Health &
Well-being

Nov 17

3:30 - 4:30pm Eastern



White Paper Webinar Series



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White Paper Webinar Series

Welcome!



Transition
Services



STEM
Education



Women
Veterans



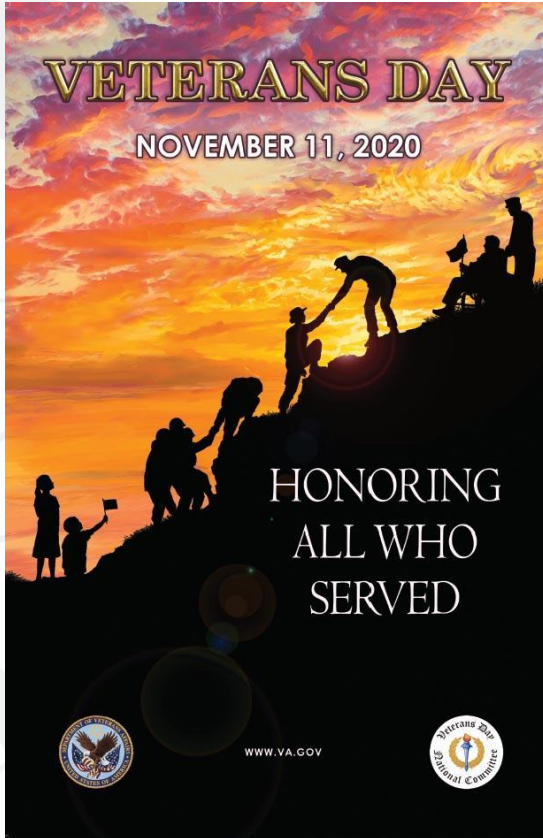
STEM
Workforce



Health &
Well-being



Veterans Day and STEM Week





White Paper Webinar Series

Our goal is to increase the number of women veterans entering STEM careers



Transition
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STEM
Education



Women
Veterans



STEM
Workforce



Health &
Well-being



The EDC Team



Rebecca Lewis
PI



Sarita Pillai
Co-PI



Ben Spooner



Brianna Roche



Amy Uluyurt



Convening Chairs



Tony Dean
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Maury
Syracuse University



Micah Taylor
*Hire Heroes USA &
Idaho Air National Guard*



**STEM
Education**



**Transition
Services**



**STEM
Workforce**



**Health &
Well-being**

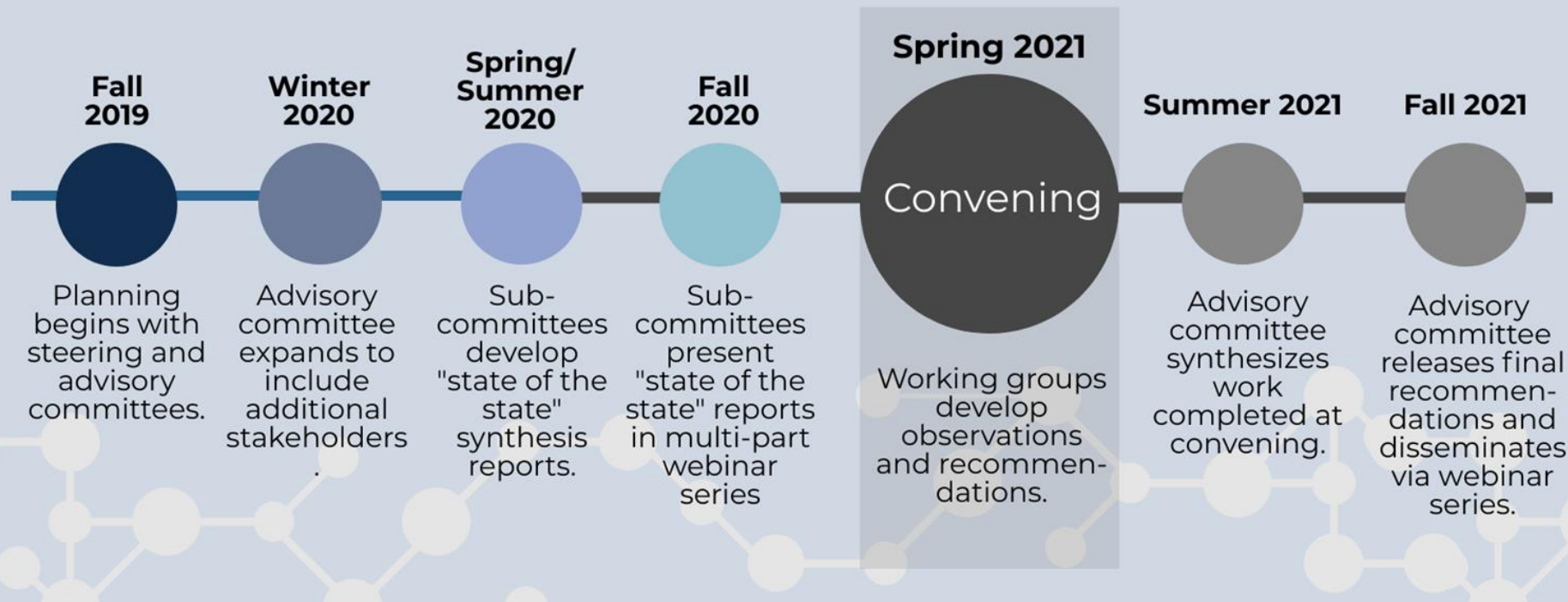


Advisory Committee





Convening Timeline





White Paper Series



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STEM Education Pathways for Women Veterans



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Advisory Committee STEM Education

Anthony Dean, Old Dominion University

Kim Bullington, Old Dominion University

Vince Bowen, Idaho State University

Travis York, The Assoc. of Public and Land-Grant Universities

Amy Cole, The Assoc. of Public and Land-Grant Universities

Cody Nicholls, University of Arizona



Advisory Committee

STEM Education *cont'd*

Julie Shank, George Mason University

Rachel Bower, University of Wisconsin-Madison,

Ashley Judah, National Women's Business Council

Nina Roque, National Women's Business Council

Connie Coleman-Lacadie, Federally Employed Women

Eddie Gonzalez, Society of American Military Engineers



Committee Presenters

STEM Education



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Word Cloud Activity

What words do you associate
with women, veterans, and
STEM identity?

pollev.com/julieshank565

What are the education pathways into STEM for women veterans?



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Educational Pathways to STEM Careers





Veterans and STEM Education

- **Prior learning and training:** military training; prior learning assessment
- **Credentialing/Certification:** “the process by which a non-governmental agency or association grants recognition of competence to an individual who has met predetermined qualifications specified by that agency or association” (National Organization for Competency Assurance, 2020).
- **Internships:** Naval Research Enterprise Internship Program (NREIP); Science, Mathematics & Research for Transformation (SMART)

What words do you associate with women, veterans, and STEM identity?

strength determined
experienced
technology submission test
stem word multiple
experience resilient



How and when do women veterans develop a STEM identity?



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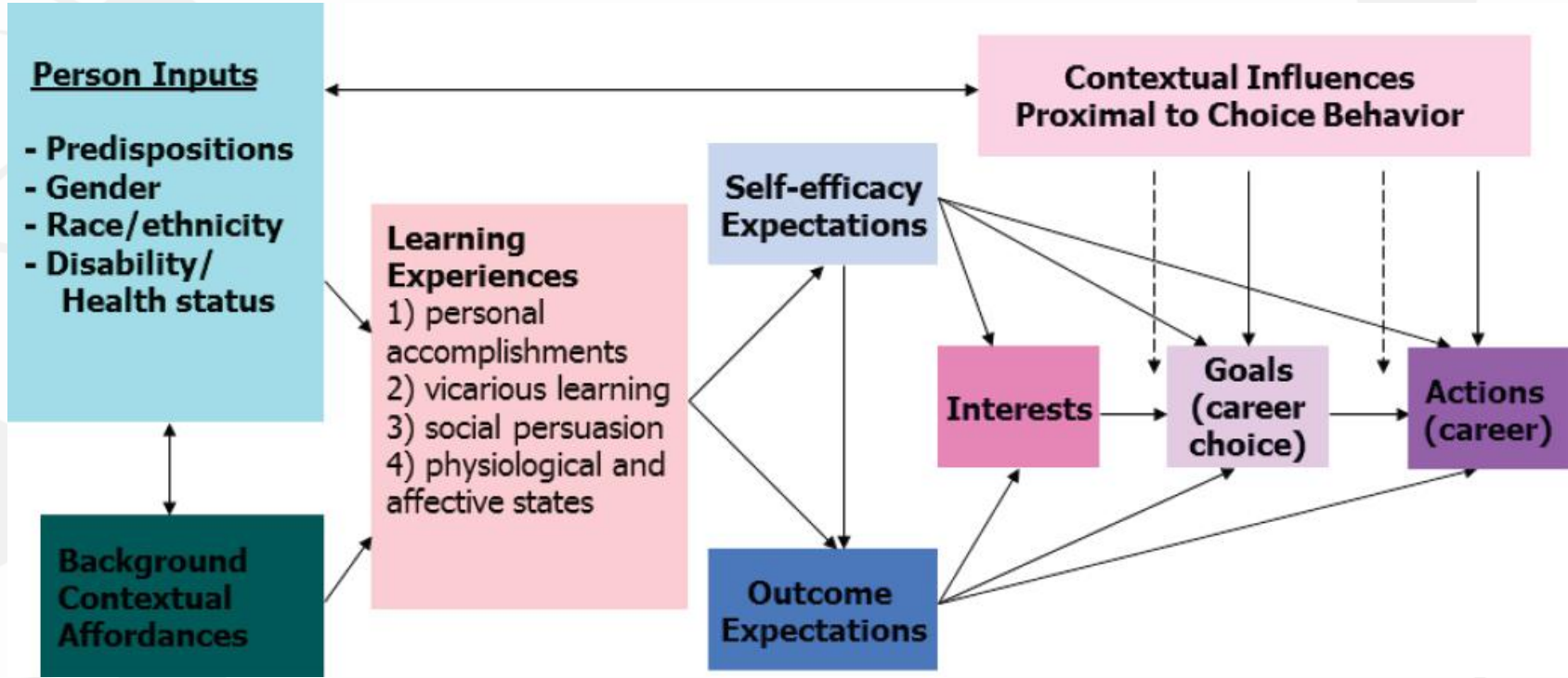
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STEM Interest and Identity Development



(Lent et al., 1994)



STEM Interest and Identity Development

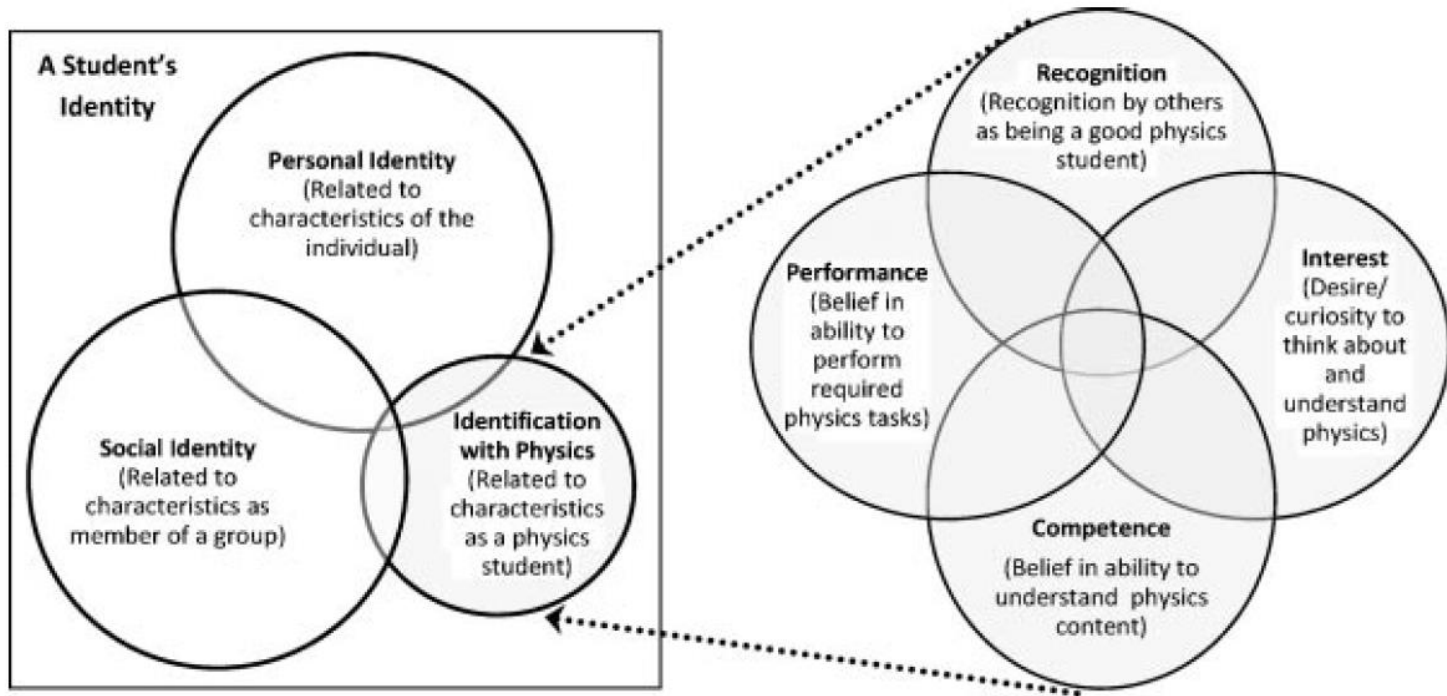


Figure 1. Framework for students' identification with physics.

(Hazari et al., 2010)

What ongoing support is required to retain women veterans pursuing STEM degrees?



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Veterans and STEM Education

- **Who are your women veterans?**
- **Women veteran population:**
 - 17.5% of military (Military One Source, 2017)
 - 10.5% of veterans in 2020, expected to grow to 16% by 2040 (Department of Veterans Affairs, 2017)
 - 20% of student veterans (Cate et al., 2017)
- **Peer activities:** Women veterans often don't participate

What services are available to aid women veterans moving from STEM education into the STEM workforce?



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**Gendered
Innovations** in Science,
Health & Medicine,
Engineering, and
Environment





Hot off the Press!

The cover of the report features a blue header with the EDC logo and the title "Women Veterans in STEM". Below the title is the subtitle "Strengthening the Pipeline from Service to STEM" and a series description "A series focusing on the future of Women Veterans in STEM". A central graphic shows a pipeline with five stages: Health & Well-being, Transition Services, STEM Education, Women Veterans, and STEM Workforce. The report is identified as "ARTICLE 4 of 5". A paragraph describes the report's development as part of a National Science Foundation-funded project. The main title "STEM Education Pathways for Women Veterans" is prominently displayed, followed by the question "What are the education pathways into STEM for women veterans?". A small note at the bottom states "Women veterans can access STEM education in a variety of ways."

EDC Education Development Center | **Women Veterans in STEM**

Strengthening the Pipeline from Service to STEM
A series focusing on the future of Women Veterans in STEM

Health & Well-being | Transition Services | **STEM Education** | Women Veterans | STEM Workforce

ARTICLE 4 of 5

This paper was developed as part of a National Science Foundation-funded project seeking to improve participation by women veterans in the STEM workforce. It is the first of five papers aimed at providing a snapshot of what is currently known about women veterans' participation in the STEM workforce, factors that affect their participation, and promising practices to increase participation and success in these fields. A convening in early 2021 will bring together key stakeholders to discuss the implications of these findings and how to best strengthen and scale the impact of existing initiatives to support women veterans' success.

STEM Education Pathways for Women Veterans

What are the education pathways into STEM for women veterans?

Women veterans can access STEM education in a variety of ways.

bit.ly/STEMeducationWP





Opening up a dialogue



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Q & A



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Keep in touch!



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