



Recommendations



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Recommendations

Welcome!













What sector do you work in?

Employer

Policymaker

Professional Organization or Association

Military

Veteran Serving Organization (VSO)

Education

Government Agency

Elected Official

Other







Recommendations

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





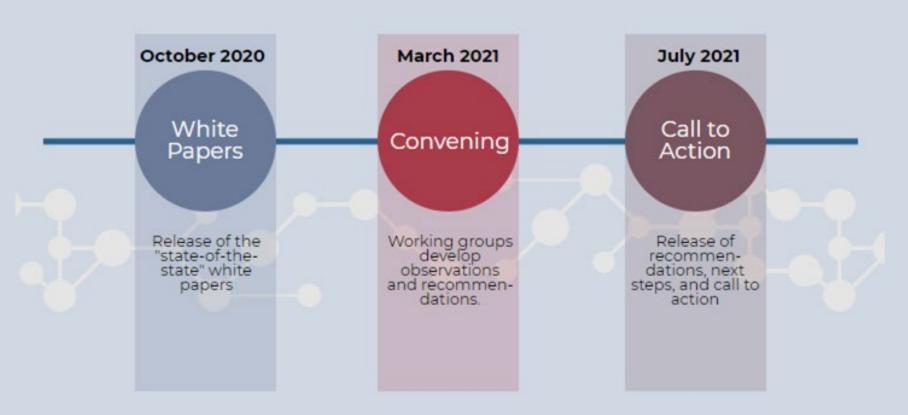








Project Timeline



White Paper Series

Strengthening the Pipeline from Service to STEM

A series focusing on the future of Women Veterans in STEM

Veterans

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.

Why is it important to support women veterans' entry into

Women veterans bring many strengths to the civilian workforce, including leadership, teamwork,

also will help the women themselves. Women

veterans in STEM professions make 54% more

STEM.1 Stronger pathways to STEM careers for

women veterans will strengthen post-service

financial stability for them and their families.

Engaging and Retaining Women

Veterans in the STEM Workforce

Woman Votorans in STEM

EDC Protoporer | Women Veterans in STEM

funded project seeking to is the first of five papers

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nd promising practices to ly 2021 will bring together

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ty of Syracuse showed that veter-

hics and discipline, leadership,

ility, and teamwork, 2

develop skills in domains such as

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ligital Economy, a report from

equired in three domains:

al ability, and collaboration

Building Block Skills, which

cially useful to data-driven

ings as analyzing data, manag-

and computer programming

makers and include

Glass Technologies, other skills

Skills, or "soft skills," such as criti-

ting, creativity, communication,

omen Veterans in STEM

Women Veterans in STEM









n veterans in the STEM workforce. It is the first of five papers of what is currently known about women veterans' participation ors that affect their participation, and promising practices to cess in these fields. A convening in early 2021 will bring together e implications of these findings and how to best strengthen and atives to support women veterans' success.

ers for Women Veterans

and experience uniquely qualify women careers?

y divisions or sectors have ore opportunities for STEMaining have become available 1-related Military Occupa-Ities (MOS) include such posiuter network architects, civil ental engineers, data scienw more Given this training ans are ready to move directivilian careers. The Skills on the Military.com website en vets see how their

on women's participation in

STEM jobs will require more nical skills.1 A study from the University of Syracuse showed that veterans also develop skills in domains such as work ethics and discipline, leadership. adaptability, and teamwork. 2

According to The New Foundational Skills of the Digital Economy.3 a report from Burning Glass Technologies, other skills will be required in three domains:

Human Skills, or "soft skills," such as criti-

Service to STEM





ndation-funded project seeking to force. It is the first of five papers out women veterans' participation pation, and promising practices to ing in early 2021 will bring together gs and how to best strengthen and

ealth and Veterans in

veterans' health and well-being, from their n life, but it is important to first define what

tors or dimensions of wellness that contribute

improve an individual's well-being. The Substance Abuse and Mental Health Services Administration promotes eight dimensions of wellness, which include the following:

Emotional—developing skills and strategies to cone with stress:

Financial-satisfaction with current and future financial situations; Social—developing a sense of connection

and a robust support system; Spiritual—the search for meaning and pur-

pose in the human experience:

Veterans in STEM

eline from Service to STEM ure of Women Veterans in STEM







ervices

STEM workforce. It is the first of five papers aimed at about women veterans' participation in the STEM , and promising practices to increase participation 2021 will bring together key stakeholders to discuss best strengthen and scale the impact of existing

Transitioning to orce

available to help women tion to jobs in STEM fields?

rvices that cater exclusively to STEM fields.

ition. Their the Veterans

Homeland Security (DHS), in conjunction with the Small Business Administration (SBA) TAP), which is and the Office of Personnel Management.

interagency

TAP begins with individualized initial counseling and pre-separation counseling, both of which must be completed no later than 365 days prior to separation or retirement. TAP counselor works with the transitioning sition process, complete their personal selfassessment and individual transition plan. and discuss their individual post-transition

STEM careers?

problem-solving skills, resilience and persistence.

Supporting women veterans' entry into the STEM categories for women veterans are computer workforce will be advantageous to the field, and and mathematical, computer science and information technology, and engineering.2 This ranking is notable because engineering and computthan do women veterans in non-STEM jobs, and er science are two STEM occupation areas where they earn 13% more than non-veteran women in women are most underrepresented, making up just 15% and 26% of the total workforce, respectively.3 Given that most women in the military are women of color.4 supporting women veterans' entry into STEM professions will increase We know that women veterans are interested in both gender and racial diversity in a field where pursuing STEM careers: They are nearly twice as most jobs are held by men who identify as White likely to be in a STEM occupation than are nonveteran women. The top three STEM occupation

Workforce

art of a National Science Foundation-funded project seeking to

he Pipeline from Service to STEM

on the future of Women Veterans in STEM

TEM-related Military Occupational Specialties, women in the mili-

might translate to a particu-

cal thinking, creativity, communication. analytical ability, and collaboration Digital Building Block Skills, which

are especially useful to data-driven decision makers and include such things as analyzing data, managing data, and computer programming



om Service to STEM men Veterans in STEM

Veterans in STEM

Women veterans bring many strengths to civilian workforce, including leadership, teamwork, problem-solving skills, resilience & persistence











Most veterans' support services were developed for male veterans; programs specifically for women veterans are typically fractured and isolated











As number of women veterans grows, availability and quality of services available to them must evolve











Much still needs to be done to ensure that those who have served our country can leverage their experience and leadership expertise into economic opportunities.







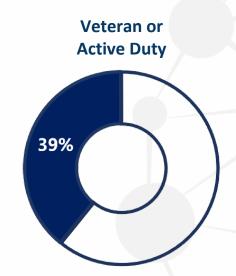




Convening Recap

69 participants met, seeking to:

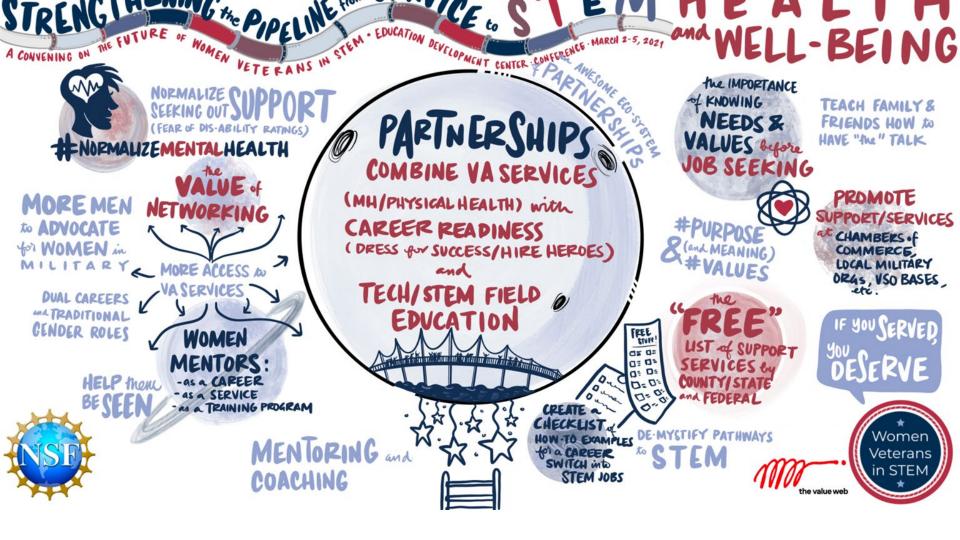
- identify and prioritize strategies to develop and leverage existing services
- stimulate new ideas to provide more targeted outreach to engage, train, and retain women veterans in the STEM workforce

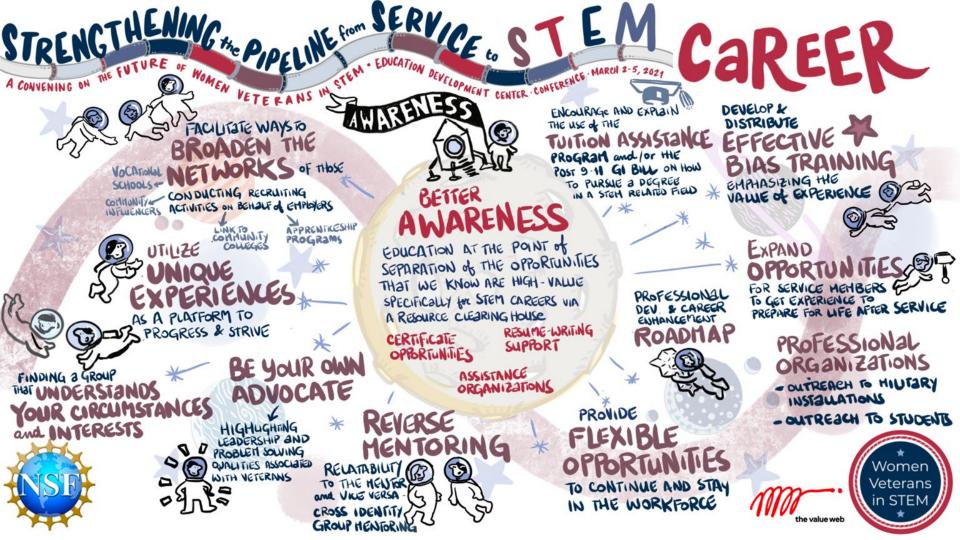


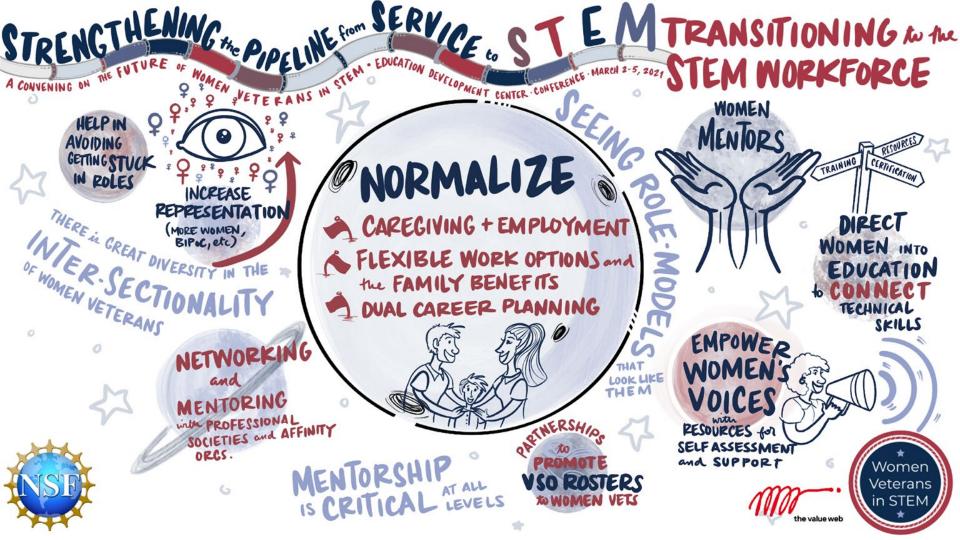
The Convening was comprised of:

days,keynote speakers,networking sessions,working groups,

panel discussions









AN INFORMATION

CLEARINGHOUSE

BETTER & MORE

OUTREACH RESOURCES

FOR ON-BASE EDUCATION

RESOURCES/EDUCATION/

INFO ON TUTTION ASSISTANCE



WITH INDUSTRY,

PROFESSORS, PEERS ...)

OR STUDENTS THAT ARE ACCESSIBLE DURING CLASS & STUDY

ON VETERAN NEEDS



PROGRAMS THAT

reframe

SERVICE







THROUGH PROFESSIONAL

Have Civilian INCORPORATE STEM WOMEN MENTOR WOMEN SERVICEMEMBERS MOS

TRAINING

THAT TRANSFER TO

CIVILIAN SPACE,

PROGRAMS

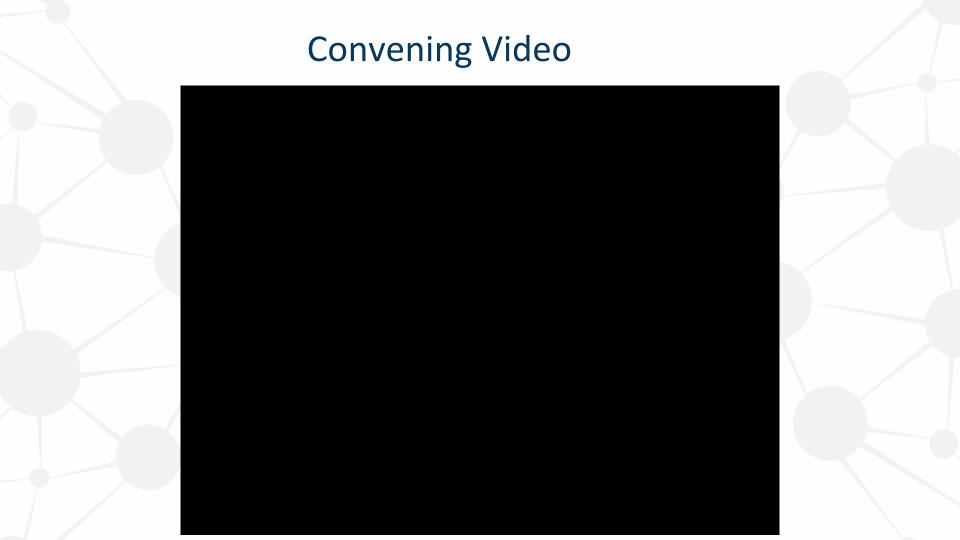
PROVIDE CERTIFICATION

UNIVERSITY SABBATICAL

INCLUDE FREE MEMBERSHIPS TO PROFESSIONAL ASSOCIATIONS

ARE KEY!







National Center for Women Veterans in STEM













National Center for Women Veterans in STEM

Resource Roundup

Employment

Education

Transition & Other

STEM Employment

Challenges

- "Employers didn't recognize my MOS as actual work experience."
- "How does my military experience translate to the civilian workforce?"

National Center for Women Veterans in STEM

- Employers receive technical assistance on recruiting, hiring, and integrating veterans into the workplace
- Women Veterans access coaching on how to translate their military experience to a civilian resume
- Women Veterans access self-assessment tools and career roadmaps

The National Center will connect women Veterans with:

Hire Our Heroes | Talent Bridge for Veterans | Veterans at Work Certificate Program

...just to name a few, what else should we include?

STEM Employment - what resources should women Veterans be connected with?



STEM Education

Challenges

- "I wasn't sure where to begin my post-service education journey."
- "I feel like I have to hide my veteran status."
- "What prerequisites do I need to begin a STEM program?

National Center for Women Veterans in STEM

- Resources and guidance for women service members and veterans to understand the opportunities and pathways in STEM
- Customized technical assistance to higher education institutions on how to better recruit and retain women veterans, develop mentoring programs, and establish communities of practice

The National Center will connect women Veterans with:

GI Bill | Edith Nourse Rogers STEM Scholarship | VET TEC | One2One Mentorship Program

...just to name a few, what else should we include?

STEM Education - what resources should women Veterans be connected with?



Transition & Other Support

Before the National Center for Women Veterans in STEM

- "Services are disjointed and hard to navigate."
- "I wasn't sure where to start"
- "I had to forge my own path to a STEM career"

National Center for Women Veterans in STEM

- Centralized hub of information, resources, and services with specific portal for women service members and veterans
- Existing networking and mentoring organizations that serve veterans are navigable and searchable in a centralized location
- Webinars and tutorials to orient users to the site

The National Center will connect women Veterans with:

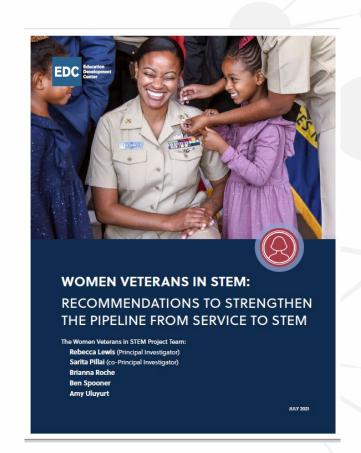
TAP | AMVETS | Onward to Opportunity (O2O) | Women Veterans Network (WoVeN) | MilitaryHire

Transition - what other resources should women Veterans be connected with?



Actionable Recommendations

- Mentoring: Tapping the Power of Women Veterans
- Expanding Networking Opportunities
- Building Strong Systems to Support Transitions
- Engaging Higher Education and Employers
- Partnering with the Military to Change Culture



Mentoring: Tapping the Power of Women Veterans

- Be a mentor!
- Sponsor affinity groups for women veterans and host networking events to match with mentors
- Seek women veterans as advisors (reverse mentoring) to better understand the unique needs of women veterans and more effectively attract them to and retain them in STEM education and the workforce.

Expanding Networking Opportunities

- Establish a professional networking alliance specifically for women veterans to connect with STEM professionals.
- Waive conference registration fees for women veterans transitioning from the military.
- Offer technical assistance to relevant professional networking organizations regarding the needs of women veterans in STEM.

Building Strong Systems to Support Transitions

- Ensure that transition planning starts long before departure and assists women in identifying and translating the skills and knowledge gained in service to relevant STEM fields
- Professional development and training opportunities, such as apprenticeship or internship opportunities with STEM employers
- Webinars, resources, and support to coach veterans to advocate for themselves
 to secure employment in the civilian sphere, and build interviewing skills so they
 are prepared for the experience

Engaging Higher Education and Employers

- Broaden recruiting networks to include vocational schools, community colleges, and apprenticeship programs, which may reach more women veterans
- Learn more about veterans' experiences by tapping veteran employees as advisors to create new engagement and retention practices as well as veteran alumni to serve as mentors to help student veterans transition and excel in higher education.
- Coach post-secondary advisors and human resources professionals on translating military experience to civilian language.

Partnering with the Military for Cultural Change

- Ensure that all service members have equitable access to transition support, including post-military career planning (pre-transition), support during the transition, and post-transition resources.
- Create a transition services office that serves all branches, rather than individual offices for each branch
- Hire an independent external agency to assess TAP, with a particular focus on the unique experiences, needs, and challenges of women veterans

Call to Action!

What are some other things you can do?

- Share the report on social media
- Join the Linkedin Group
- **Join us!** Be part of this collaborative effort to create stronger pathways to STEM for women veterans











Call to Action! What recommendations will you commit to implementing?







Learn More & Share!



@WomenVetsSTEM



LinkedIn: Women Veterans in STEM Convening

WomenVetsSTEM.edc.org













Thank you!













