Exploring Connections with Active Military & Veterans for Technology Programs

CENTER FOR NANOTECHNOLOGY EDUCATION AND UTILIZATION
Bringing Nanotechnology to Education and Industry
Introductions

CENTER FOR NANOTECHNOLOGY EDUCATION AND UTILIZATION
Bringing Nanotechnology to Education and Industry
Ned Young

Professor - Sinclair Community College/Co-Principal Investigator at National Center for Supply Chain Automation
Dayton, Ohio
Veterans

Use Your Military Skills

While serving our country, many soldiers become highly trained in positions that lay the foundation for a career in Supply Chain Automation. We're here to show you how to hone your skills, utilize the GI Bill, and get the best education possible so you can be ready for a career in one of the fastest growing industries in the USA.
<table>
<thead>
<tr>
<th>Military Service</th>
<th>Number</th>
<th>Occupational Specialty</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Army (MOS)</td>
<td>91A</td>
<td>M1 Abrams Tank System Maintainer</td>
<td>Similar to USMC MOS 2146</td>
</tr>
<tr>
<td></td>
<td>91B</td>
<td>Wheeled Vehicle Mechanic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>91G</td>
<td>Fire Control Repairer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>91L</td>
<td>Construction Equipment Repairer</td>
<td></td>
</tr>
<tr>
<td>USN (Rating)</td>
<td>AE</td>
<td>Aviation Electrician’s Mate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AS</td>
<td>AS-7606:Support Equipment Gas Turbine Mechanic</td>
<td>AS Aviation Support Equipment Technician</td>
</tr>
<tr>
<td></td>
<td>CE</td>
<td>Construction Electrician</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UT</td>
<td>Utilitiesman</td>
<td></td>
</tr>
<tr>
<td>USMC (MOS)</td>
<td>2146</td>
<td>Main Battle Tank Repairer Technician</td>
<td>Similar to Army MOS 91A</td>
</tr>
<tr>
<td></td>
<td>3524</td>
<td>Fuel and Electrical Systems Technician</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6023</td>
<td>Aircraft Maintenance Support Equipment Electricians/ Refrigeration Mechanic</td>
<td></td>
</tr>
<tr>
<td>USAF (AFSC)</td>
<td>2A02</td>
<td>Aerospace Ground Equipment Maintenance Technician</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2M0X3</td>
<td>Missile and Space Facilities Technician</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3E0X2</td>
<td>Electrical Power Production Technician</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3E1X1</td>
<td>Heating, Ventilation, Air Conditioning, and Refrigeration Technician</td>
<td></td>
</tr>
</tbody>
</table>

Notes: CMF: Career Management Field; CMF with 4-letter specialization (e.g., 541X) not all letters used.
Steve Kane
Executive Director SPACETEC, Aerospace, Aviation and Advanced Manufacturing Workforce Skills Validation Titusville, Florida

SpaceTEC®
NSF National Center for Aerospace Technical Education
Remote Proctoring Now Available!

SpaceTEC Partners, Inc. is excited to announce the availability of remote proctoring with ExamRoom.AI.

To have an exam proctored remotely, a working webcam and microphone is required.

Contact us here to learn more.

SpaceTEC Partners, Inc. (SPI), a 501(c)(3) non-profit corporation, is the parent company of credentialing divisions SpaceTEC, CertTEC and Credential Testing Services.

The mission of SPI is to serve as a clearinghouse of information, resources, custom knowledge assessments and credentials in selected technology areas. SPI credentials are preferred by practitioners and employers alike as a valid indicator of technical capabilities in core competencies needed in today's high performance workplace.

Whether providing knowledge and skills validation, professional development support, gearing up for demanding operations requiring proven competencies in technical disciplines, or assisting in identifying career pathways for changing needs, SPI offers a proven process of objective, performance-based evaluations across a broad spectrum of high technology areas in the core capabilities most employers want, with strong emphasis on the fundamentals of Systems Thinking and Troubleshooting.

When needs arise for specialized competencies requiring demonstrated skills in hands-on work, SPI can assist in developing and administering the third party credentialing processes that validate the nation’s technical workforce. SPI takes pride in leading the way for professionalizing technicians by “Certifying what you know AND what you can do™.”
VetTEC® assists active duty and transitioning Servicemembers and Veterans interested in translating their technical skills from military occupational specialties into civilian jobs by gaining industry-recognized SpaceTEC®, CertTEC®, and ASTM NCATT credentials desired in the fields of aviation, aerospace, and technology.
Kate Alcott

Associate Dir. - Northeast Advanced Technological Education Center (NEATEC)
Veteran Liaison - MNT-EC
Albany, NY
For Industry
The Center is creating hands-on, professional development workshops for current employees in the semiconductor manufacturing and nanotechnology related industries. More information

For Veterans
- Advanced Manufacturing Career Opportunities
- Workshops For Transitioning Soldiers and Recent Veterans
- Fort Drum Graduates
- 10 Reasons Why Companies Want to Hire Vets

The Training Center
- Photonics Equipment
- Mechatronics Equipment
- Workmanship Skills
VET S.T.E.P.
(Semiconductor Training & Experience Program)

2 Week Training + 8 Week Internship Opportunity:

2 August - 8 October 2021

Hands-On, High Tech Training:

- Advanced Manufacturing Practices
- Pneumatics Technology
- Basic Electronics & Programmable Logic Controllers
- Vacuum Technology
- Mechatronics Diagnostic/Troubleshooting

Soldiers receive SEMI Credential!
@Lewis Co., JRTC Training Center, Lowville, NY

Choice of 3 Different Internship Sites:

**INDUM**
Intern Site: Rome, NY Facility 66 miles from Drumm
Supplies advanced electronic assembly materials worldwide - all made in America!
>900 employees, 13 facilities and growing
https://www.indum.com/corporate/

**CREE**
Intern Site: Marcy, NY (near Utica) 85 miles from Drumm. New, $1B fab, world's largest Silicon Carbide device manufacturing facility. Veterans PACT Employee Group
https://www.cree.com/Careers

**GLOBALFOUNDRIES**
Intern Site: Malta, NY (near Albany) 163 miles
3rd Largest chip manufacturer in the world, > 15K employees, Veterans Resource Group
https://globalfoundries.com/about-us/careers

POC: Kate Alcott, alcottk@sunypoly.edu
Nanomanufacturing Certificate Program

A SkillBridge Approved pathway to advanced technology skills

APPLY TODAY!

QUESTIONS?

cneu.psu.edu/ncp/
**Nanomanufacturing Certificate Program**

Your pathway to advanced technology skills

The Nanomanufacturing Certificate Program (NCP) helps equip military veterans, as well as transitioning military personnel, with skills in nanotechnology-based manufacturing and new product development—skills companies need to move life-changing nano-scale applications out of the laboratory and into the marketplace.

### Have a Hand in Creating Your Future

As a NCP student, you will receive the most current, hands-on exposure available in nanofabrication manufacturing and characterization technology. You will learn a new skill set, making you uniquely qualified to work in the cross-disciplinary field of nanotechnology. These skills will also prepare you to obtain the American Society for Testing and Materials (ASTM) International stackable nanotechnology certificates.

**The skill set, established by the Nanofabrication Manufacturing Technology National Advisory Council, includes:**

- Basic nanotechnology
- Environmental, health, and safety awareness
- Equipment and processing foundation skills
- Patternning
- Fabrication
- Characterization
- Professional skills

**Benefits**

- Hands-on training with the latest nanomanufacturing and characterization equipment.
- Exclusive access to a powerful job network through receiving industry announcements and job postings.
- **Continued Education credits** by Tidewater Community College and Nanomanufacturing Certificate issued by Center for Nanotechnology Education and Utilization.
- Preparation to take the ASTM stackable nanotechnology certificates.

**Nanomanufacturing Certificate Program**

**August 30 - November 19**

To learn how to pursue this certificate in nanotechnology and for full course descriptions and eligibility requirements, visit [www.psu.edu/nncp](http://www.psu.edu/nncp).

**FOR MORE INFORMATION:**

- **Anthony Fantes**
  Coordinator Job Skill Training Program, Tidewater Community College
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- **Susan Raper**
  Operations Manager, Center for Nanotechnology Education and Utilization, Penn State
cjrb@psu.edu

** SkillBridge Approved**
What are some “hot tips” for military population engagement?
Military Population (active duty, reservists, retired, veteran & families)

Non-Matric or Matriculated Credit Courses

COOL - Credentialing Opportunities On-Line

USMAP - US Military Apprenticeship Program

SkillBridge - Internships Employment Skills Training

6 Mos Out

DoD VoEd Programs
Have Questions ????
Please Contact Us.

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Thank You !!