

ATE COORDINATION NETWORKS

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*Extending ATE's Reach Through
Collaborative Synergies*



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NETWORKING THOUGHT FOR THE DAY

One of the challenges in networking is everybody thinks it's making cold calls to strangers. Actually, it's the people who already have strong trust relationships with you, who know you're dedicated, smart, a team player, who can help you.

-Reid Hoffman

Founder, LinkedIn





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VISION:

- Develop a Coordination Network resource for Aviation/Aerospace Advanced Manufacturing industries capable of identifying current employer occupational needs and then connecting them with local, state, and national public and private solutions.
- Develop a Coordination Network resource for regional workforce boards and economic development agencies to identify relevant training and credentialing programs which refine and strengthen technician preparation for entry into Aviation/Aerospace Advanced Manufacturing careers.
- Develop a Coordination Network resource where educators can cross-link to share information and ideas, foster synthesis, and develop new collaborations and common standards for relevant technician education.
- Develop a Coordination Network resource that assists employers through talent pipelines that enable onboarding of qualified technicians for Aviation/Aerospace Advanced Manufacturing careers.

IMPLEMENTATION:

- Define performance standards and engage hybrid, apprenticeships and/or traditional classroom education systems for effective, robust technician education as pathways to employment.
- Publish Candidate Action Plans (CAPs) as roadmaps to Aviation/Aerospace Advanced Manufacturing careers.
- Sponsor development of credentialing options across a broad spectrum of industries that test and verify outcomes, thereby satisfying performance requirements and providing professional development at the entry level and beyond.
- Sponsor strengthening of existing employer placement activities with aptitude assessments that identify knowledge and skill gaps and integrate work ethic credentials to foster success in the workplace.

MakerTEC Coordination Network





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COORDINATION:

- Identification of industry skills gaps through Job Task Analyses (JTAs) and then developing solutions for closing the gaps.
- Integration of industry-validated stackable credentials supporting industry skilled labor needs across multiple fields.
 - Center for Work Ethic Development
 - ASTM/NCATT
 - NIMS
 - SpaceTEC
 - CertTEC
- Connecting training partners and educators with faculty professional development opportunities to bring instruction to a level that meets industry needs.
 - FESTO Didactic (mechatronics train-the-trainer)
 - Abaris (composites train-the-trainer)
 - MAZAK and EMCO (CNC machining equipment operation for instructors)
 - Siemens (CNC software coding)
 - EOS (additive manufacturing equipment operation for instructors)

ACTIVITIES:

- Advanced Maintenance Technician JTA and curriculum development – SAWDC, Mobile, AL
- Aerospace Technician JTA and curriculum development – Nunez CC, Chalmette, LA
- Space Coast Consortium Apprenticeships:
 - CNC Machining – NIMS stackable credentials
 - Mechatronics – NIMS stackable credentials
 - Fiber Composites – CertTEC Composites
 - Industrial Maintenance – NIMS stackable credentials
 - Avionics – ASTM/NCATT/CertTEC stackable credentials
 - Aircraft Sheet Metal – CertTEC stackable credentials
- IMTS Smartforce Student Summit CNC Competition
- ATG/NETWorX AeroSkills Aircraft Sheet Metal Tournaments
- Fossil Fuel Energy Technician to Aerospace Technician transition – Midland, TX
- Center for Work Ethic Development ‘Bring Your A-Game’ (train-the-trainer) – Titusville, FL (Feb. 2019)

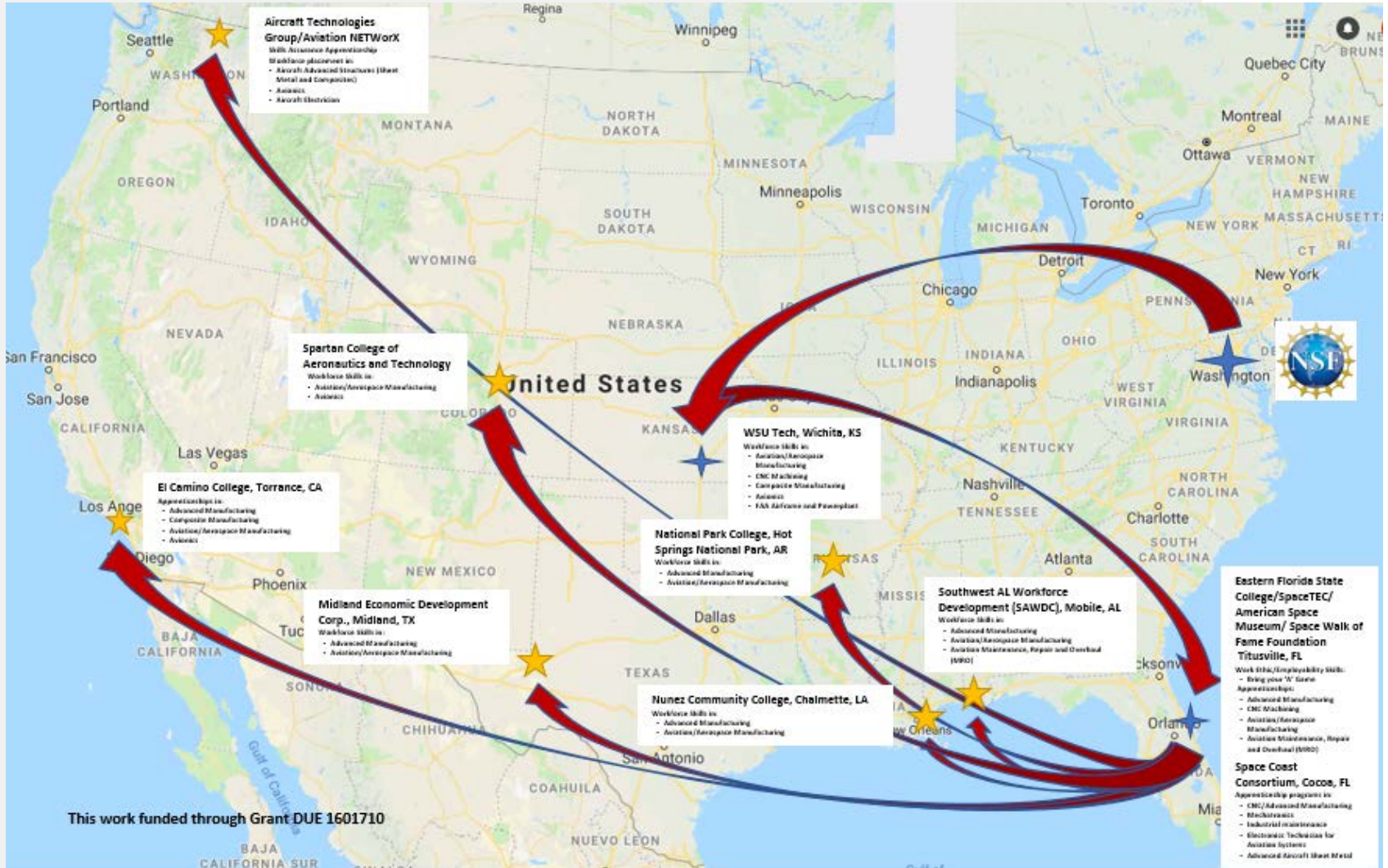
In Approval Process

Coming Soon



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Sustainability

- Coordinate Job Task Analyses focused at the regional or local level to identify skills gaps (fee-based) .
- Coordinate development of curriculum and acquisition of appropriate educational equipment (fee-based).
- Coordinate upskilling of instructors (fee-based).
- Coordinate development of relevant, stackable, industry-endorsed credentials (fee-based).
- Decentralize CN resources, spread the wealth and empower Executive Committee and Advisory Working Group colleagues.

Top 3 Lessons Learned

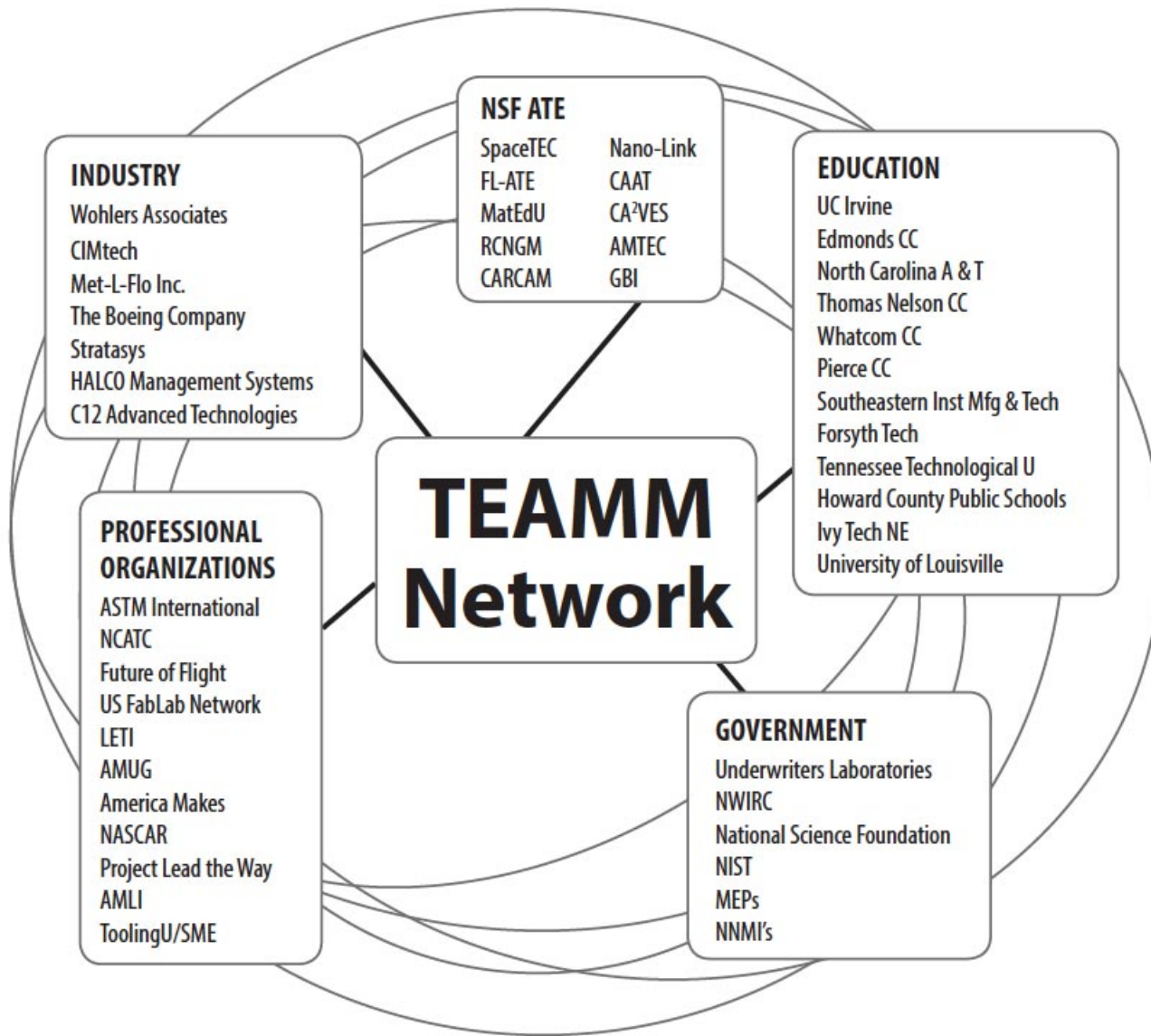
- Keep expectations manageable.
- Managing multiple locations is challenging.
- Continuously work to improve communications across the network.

TEAMM Coordination Network Goals:

- Establish a new collaboration network supporting the convergence of materials science and additive manufacturing
- Offer professional development opportunities to assist educators and industry to integrate core competencies
- Disseminate AM core competencies, instructional materials and resources nationally

Building Strategic Partnerships:

- Educators – teaching the technology; developing programs
- Industry members – developers, end users, innovators, influencers
- Government – professional organizations, standards developers
- NSF ATE – sharing information across grants to optimize resources



Regular communication:

- Bi-monthly AM news articles to network members
- Stratasys Extreme Competition participation
- Incorporation into regular AM activity planning with SME, LIFT, ASTM, Tooling U
- Core competencies used by network members