

Forest Tech 101

Course Worksheet

Required for Workshop Participation

1. What is Technology?

What do you think of when you hear the word “technology”? Write your own definition below:

2. Addressing Pain Points

We often look to technology to solve problems. Perhaps we need to do something faster, cheaper, better, etc. What is one aspect of forestry work that has similar pain points that maybe new technology could help address? What are the pain points you would address?

3. Catalyzing Synergy

New technology requires trying new things or trying old things in new ways. This comes from having a broad understanding of many diverse and seemingly unrelated subject matters. Where can we look for new ideas and synergies in forestry?

a) reflect on a seemingly unrelated profession or application that you think might bring valuable synergies to your chosen aspect of forestry tech and innovation, see page 3 for inspiration on fire and forestry career pathways.

b) now think of a profession that is totally in the outfield that would be shocking to synergize with forestry; what’s a whimsical synergy? No wrong answers!

4. Envisioning the Future

Now let's imagine the year is 2100 and we've solved the above stated problem. What does that look like? Don't hold back! Write the introductory lines of a news article comparing technology in 2100 vs 2025 for the aspect of forestry you set out to address. What innovation/s could amplify current capabilities and sustain better outcomes for communities and forests?

5. Barriers and Challenges

However, fulfilling our vision for the future is never simple or easy. It takes hard & strategic work, with many challenges to overcome! Which of these challenges do you feel would be the biggest obstacle for implementing your vision of the future?

- Culture
- Scope
- Resources
- Economics
- Other

Write one idea for how to overcome it:

Bring this completed worksheet to the Forest Tech 101 workshop, we'll help you work through your ideas as part of a micro hackathon!

Self-paced Micro-hackathon – Pitch your idea!

Drawing on the ideas you've just brainstormed, assuming you had sufficient \$ in seed capital, think about what will make a forestry job/ process/ system easier, more effective, and sustained?

Set a timer for 5-minutes. Put together the best 30 second pitch you can for a tech-enabled solution in forestry. Make sure you:

a) define the problem:

b) effectively summarize your solution (elevator pitch):

c) clearly identify the next action/s that will bring this idea into reality:

Don't worry too much about the seriousness of your idea, the process is more important than the outcome. Let's go!

Additional space for notes:

OPTIONAL: Record your 30 second pitch and send to info@fire-up.net prior to the workshop, we'll be in touch!

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Fire & Forestry Career Pathways

Learn about Career Paths:

Applied science, research, & outreach
(cross-cutting).

- Archeology and curation
- Biology, Botany, and Wildlife
- Community resilience
- Data, GIS & mapping
- Ecology
- Fire science
- Geology
- Hydrology & watersheds
- Research
- Training & education

Conservation

- Natural resource management
- Landscape restoration
- Parks & trail management
- Recreation and visitor services

Forestry and Land Management

- Transportation
- Urban forestry
- Logging and timber
- Wood products industry

Wildland Fire Management

- Early detection & response
- Firefighting & aviation
- Insurance
- Medical and safety
- Prescribed fire
- Recovery management
- Structural mitigation & protection
- Vegetation/fuels management

Match your Skills to Job Functions:

- Administrative
- Customer success
- Data science
- Engineering
- Funding
- Finance and accounting
- Human resources
- Information Technology
- Legal services
- Marketing and communications
- Media and journalism
- Operations
- Policy and advocacy
- Product and design
- Professional services & consulting
- Project management
- Sales & business development

Select Industry Synergy:

- Federal agency
- FireTech start up
- Local agency
- Local/ small business
- Non-profit
- Private company
- State agency
- Training & education
- Tribal organization
- University
- Utility