Integrating Projects with Tribal College Curricula
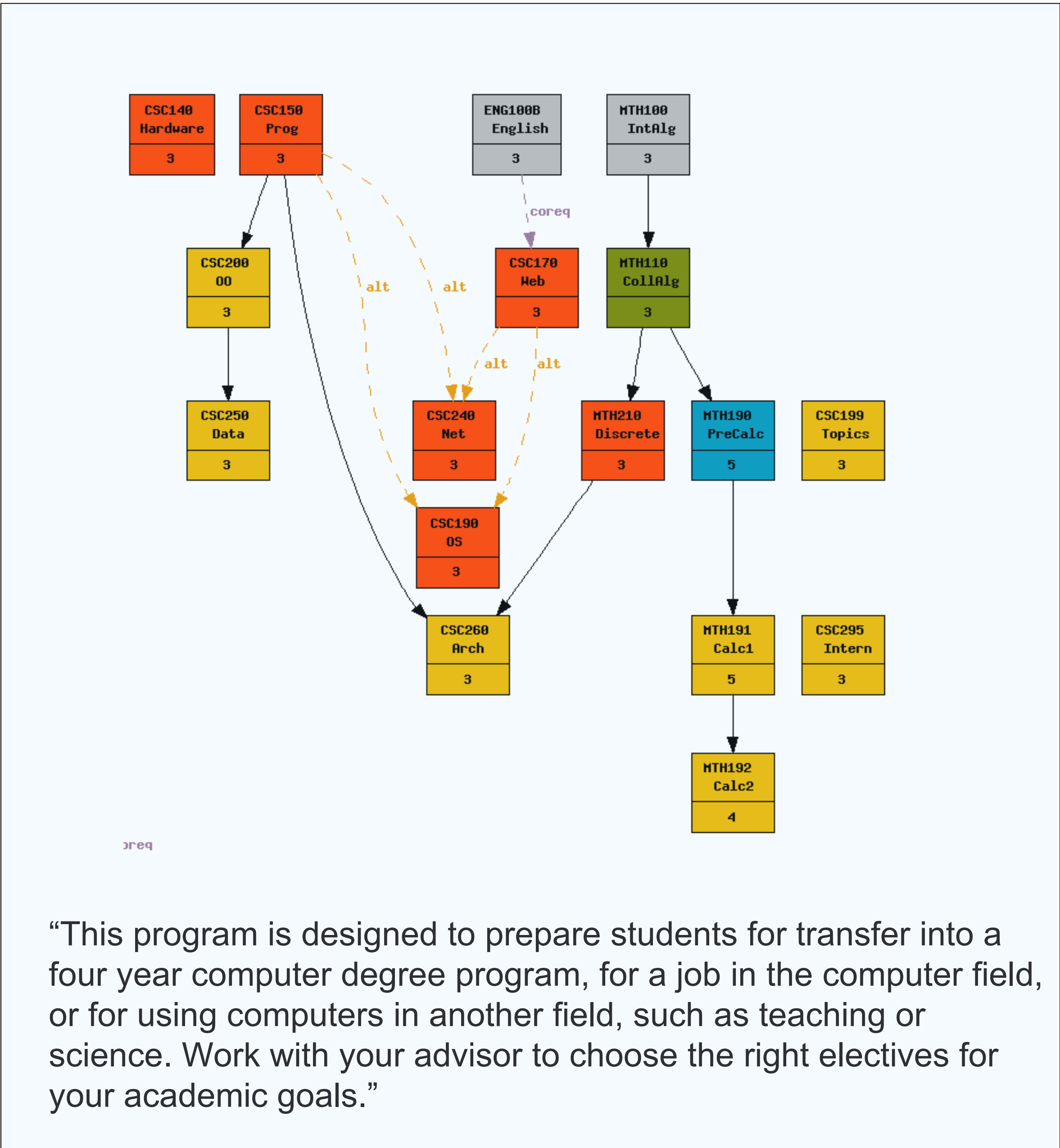
MIT's Imara Project partners with Diné College for technology outreach in the Navajo Nation

"While refurbishing computers for use in under served communities is nothing new, having a college level course focused on it taught to local students is a unique opportunity to build a sustainable local technology community."
http://imara.csail.mit.edu/?q=node/8

StoryBook Markup Languages ?

```
<sceál>
    <teideal>Cá bhfuil mo hata?</teideal>
    <rannóg>
        <gaeilge>Cá bhfuil mo hata?</gaeilge>
        <phictúir foinse="hata01.jpg"/>
        <fuaime foinse="hata01.mp3"/>
    </rannóg>
    <rannóg>
        <gaeilge>Cá bhfuil mo hata?</gaeilge>
        <phictúir foinse="hata02.jpg"/>
        <fuaime foinse="hata02.mp3"/>
    </rannóg>
    <rannóg>
        <gaeilge>Cá bhfuil mo hata?</gaeilge>
        <phictúir foinse="hata03.jpg"/>
        <fuaime foinse="hata03.mp3"/>
    </rannóg>
    <rannóg>
        <gaeilge>Sin é!</gaeilge>
        <phictúir foinse="hata04.jpg"/>
        <fuaime foinse="hata04.mp3"/>
    </rannóg>
</sceál>
```


"This program is designed to prepare students for transfer into a four year computer degree program, for a job in the computer field, or for using computers in another field, such as teaching or science. Work with your advisor to choose the right electives for your academic goals."
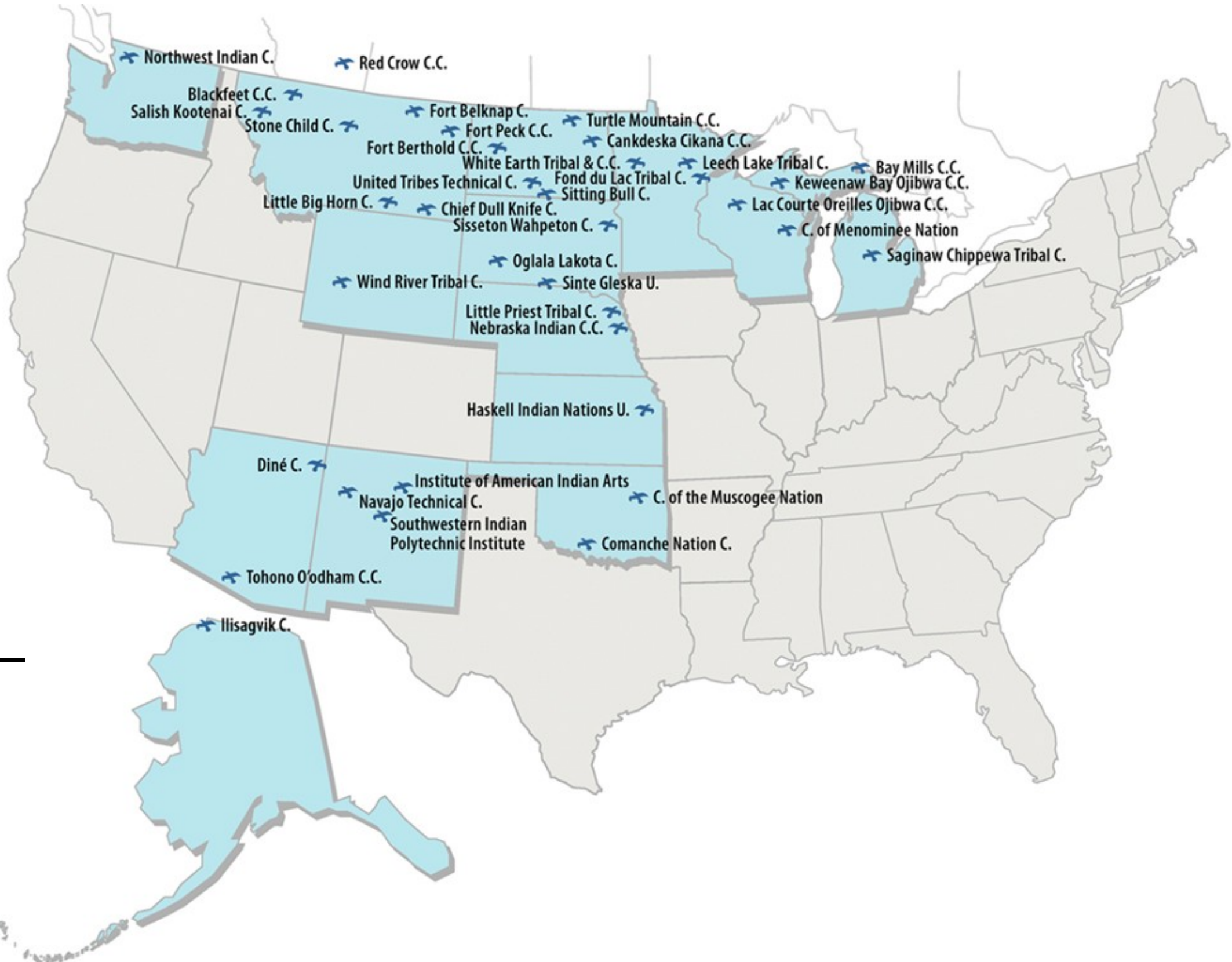
Research Meets Fundamentals

- Delay Tolerant Networking
- Opportunistic Computing
- Secure Mobile Environments
- Low Power Computing
- Custom Operating Systems
- Curriculum Design, Presentation, Assessment and Transfer
- Localization
- Culture and Technology
- Language Learning
- Human-Comuputer Interface

Tribal Colleges and Universities (TCUs)

"TCUs were created in response to the higher education needs of American Indians and generally serve geographically isolated populations that have no other means accessing education beyond the high school level."   *http://aihec.org*

Think outside the box –
    and inside it -
        and behind it,
    and below it, ...

For projects of the sort intended for Developing World Applications, Tribal Colleges and Universities are in a unique position to partner with Research Institutions. Conditions in some areas served by Tribal Colleges are in some ways similar those in the developing world.

As part of the local community, students at TCU's have an understanding of those conditions and the real needs and interests that result.

As Computer Science students, they are committed to learning the fundamentals of computer technology.

These students can provide sustainability to the deployment of research projects. They can also help those projects evolve beyond the ivory tower and into real communities.

David Broderick (UW CSE)