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## Creating Tomorrow - Engineering Stories Heard on Utah Public Radio | College of Engineering

USU College of Engineering

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# Creating Tomorrow - Engineering Stories Heard on Utah Public Radio | College of Engineering

12/01/2016

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## UTAH PUBLIC RADIO

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### Changing the Conversation

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309081202&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309081202&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Our perception of *who* engineers are and *what* they do is a little skewed. And now, engineers are trying to change that.

### Engineers Without Borders

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309903609&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309903609&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Engineering students at USU developed a simple shelter that protects alpacas from the cold.

### 'Green' Rocket Motors

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/310005619&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/310005619&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Aerospace engineers at Utah State University are developing a small rocket motor made of printed ABS plastic.

### Aggie Air

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309894518&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309894518&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Engineers at USU's Utah Water Research Lab are developing advanced unmanned aerial vehicles.

## Putting Quality Teaching First

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309079509&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309079509&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Engineering education researchers at Utah State University are putting quality teaching first.

## Data Compression

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309901942&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309901942&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
How does YouTube and Netflix stream all that content? The answer is data compression.

## Bio Energy

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309897235&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309897235&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
What if we could turn plant waste into something useful?

## Concrete Canoes

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309899903&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309899903&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Will it float? The story behind the concrete canoe.

## Smartphone Apps

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/310582081&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/310582081&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Computer scientists at USU and Berkley created a smartphone app that detects earthquakes.

## Cancer Research

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309899148&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309899148&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Developing cancer drugs in a lab takes time. But with computer science, researchers can fast-forward the process.

## Using LiDAR in Archeology

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/310421292&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/310421292&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Archaeologists used LiDAR to spot the remnants of a forgotten civilization in the rainforest.

## Making Natural Products

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309083622&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/309083622&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Natural products are replacing many of the synthetic ingredients found in everything from food to pharmaceuticals.

## Space Junk

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/310582592&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/310582592&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Above our heads there's a floating junkyard of space debris.

## **The Fate of PPCPs**

[https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/310575248&auto\\_play=false&hide\\_related=false&show\\_comments=true&show\\_user=true&show\\_reposts=false&visual=true](https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/310575248&auto_play=false&hide_related=false&show_comments=true&show_user=true&show_reposts=false&visual=true)  
Pharmaceuticals and personal care products (PPCPs) are finding their way into surface waters.

**Tune in to Utah Public Radio at 89.5-FM or 91.5-FM in Cache Valley to hear the *Creating Tomorrow spots*.**