Pacific Northwest
NATIONAL LABORATORY

Pacific Northwest National Laboratory

A National Asset in the Tri-Cities

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U.S. DEPARTMENT OF ENERGY BATTELLE

PNNL is operated by Battelle for the U.S. Department of Energy

PNNL-SA-146404

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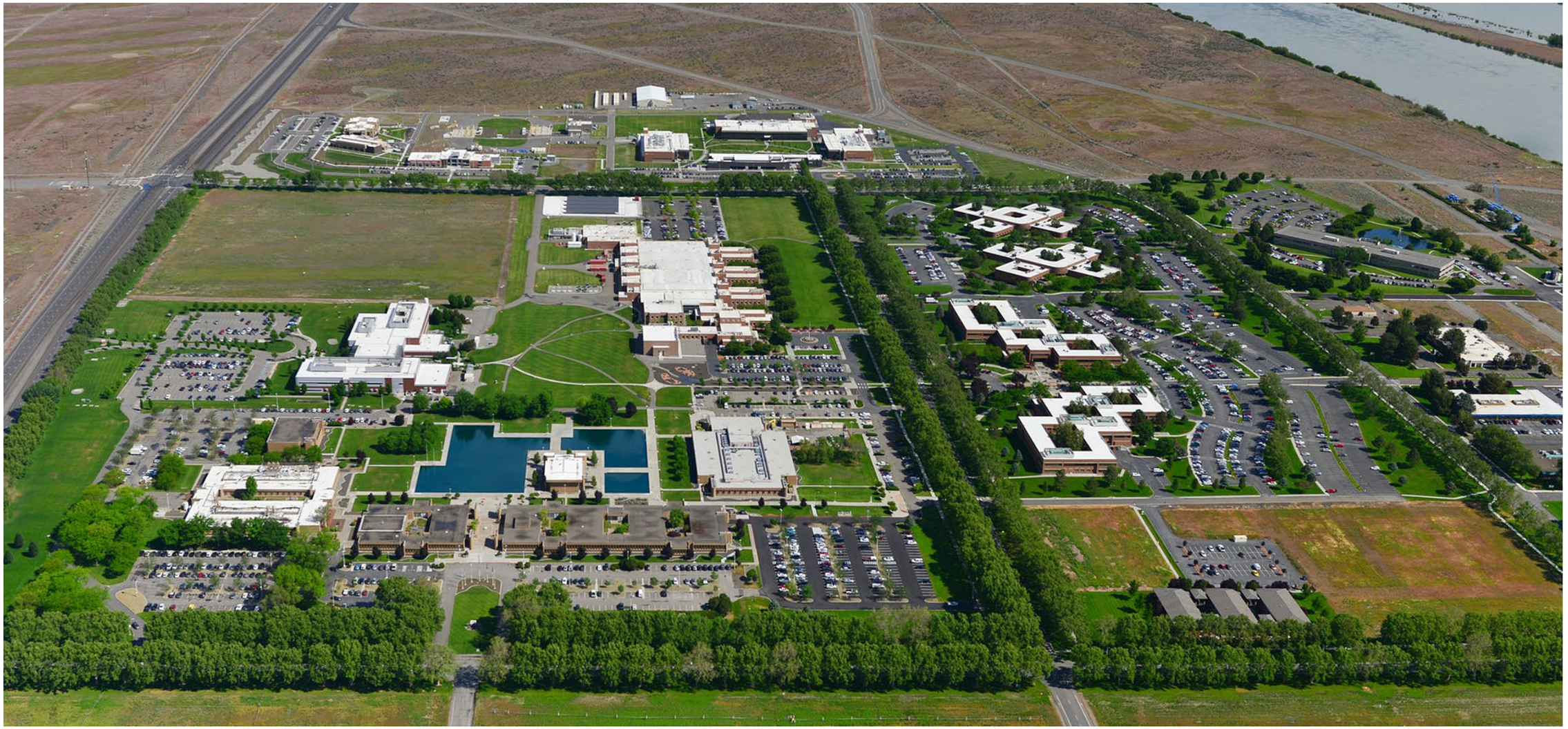
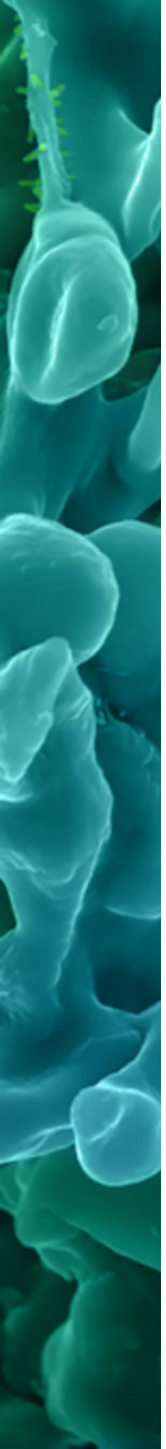
PNNL is a regional, national, and international **scientific resource**





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PNNL is an economic **ENGINE**

4,700
Employees

$1B
Annual Spending

$465M
Total Payroll

265
Inventions

88
Patents

34
Licenses and Options

$1.46B
Total Economic Impact

7,180
Jobs Generated
in Washington

99
WA Companies
with PNNL Roots

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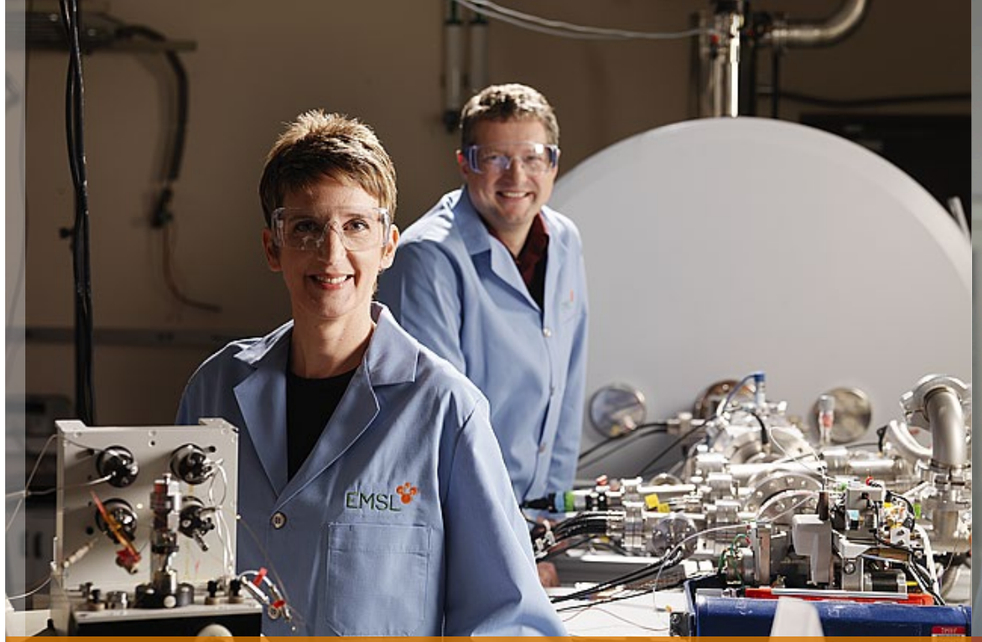
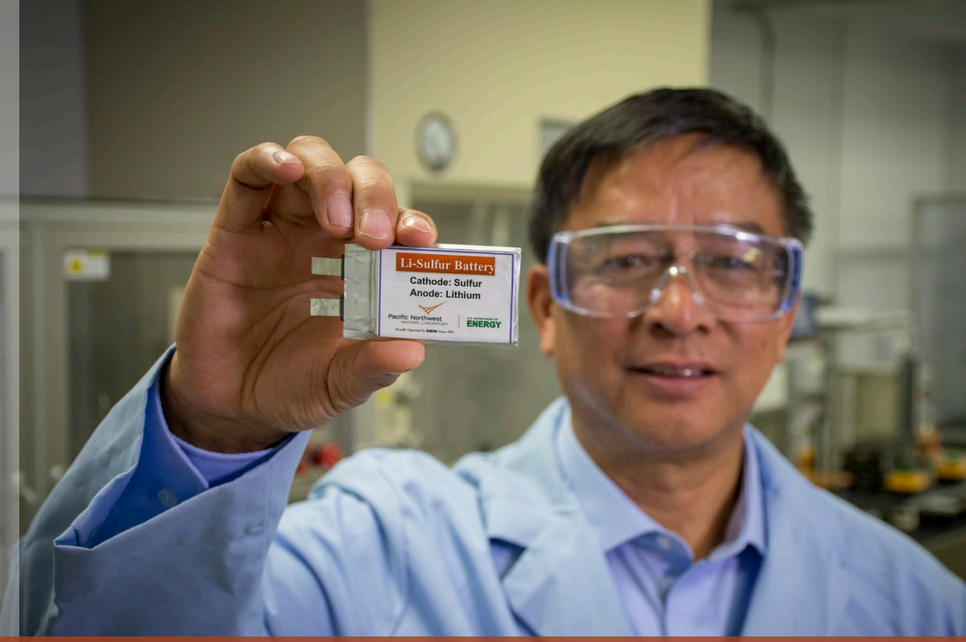
PNNL advances

DOE's MISSIONS



Scientific Discovery



Energy Independence

National Security

Environmental Management

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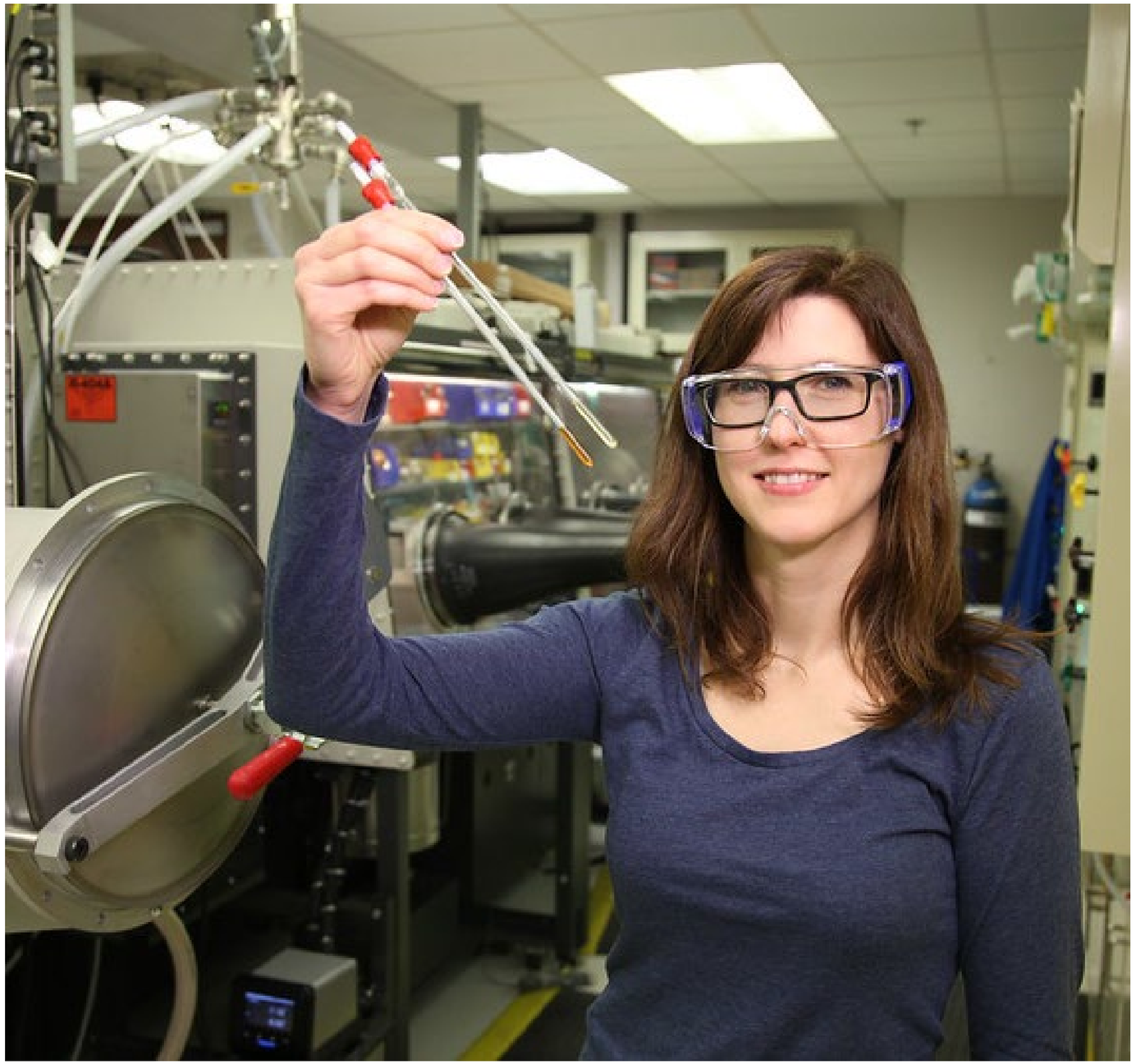
Science
HIGHLIGHT

Using bio-inspired design to produce fast, reversible, **catalysts** that could be used to efficiently store and retrieve **renewable energy**



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Energy & Environment

HIGHLIGHT

Developing better **grid-scale** and **transportation** batteries

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National Security HIGHLIGHT

Providing situational awareness to counter **cyber security threats**

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Energy & Environment
HIGHLIGHT

Demonstrating the immobilization of **radioactive waste** for safe, permanent storage

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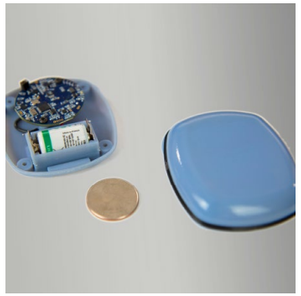
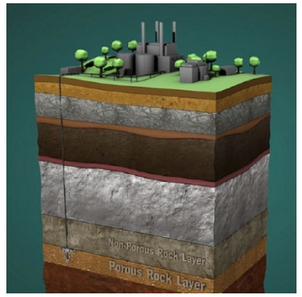
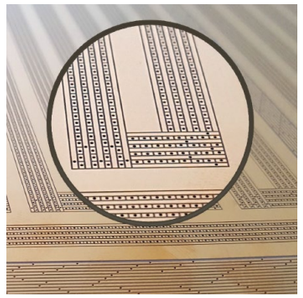
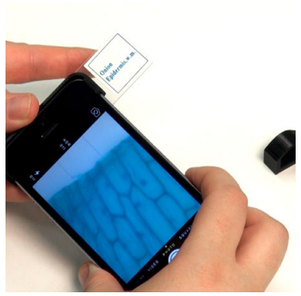
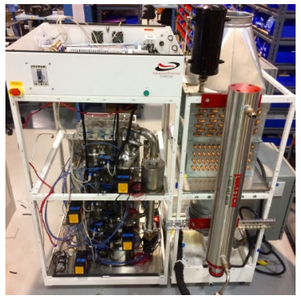
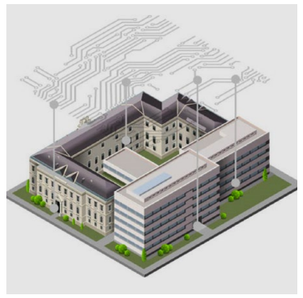
Growing strategic partnerships with **academia**, engaging **regional stakeholders** and collaborating with **industry**

Academia

Industry

We are transitioning our **technologies** to **industry**

IN FY2019:

6 R&D100 and FLC Awards

88 U.S. and International Patents

34 Licenses and Options

ONE
INVENTION
nearly every business day

About
TWO
PATENTS
per week

99
Active
BUSINESSES
with **PNNL** roots since 1965

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Innovations to Industry
HIGHLIGHT

Enabled the first commercial flight using **jet fuel** from industrial waste via PNNL's novel **catalysis technology**

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Innovations to Industry
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Providing improved **sensitivity** in thousands of commercial research instruments with patented **mass spectrometry** technology

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Innovations to Industry
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Improving the ability to **detect digital threats** in **near-real time** with award-winning technology now offered by local company

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We are **building** for the future

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The **Energy Sciences Capability Project** is now breaking ground

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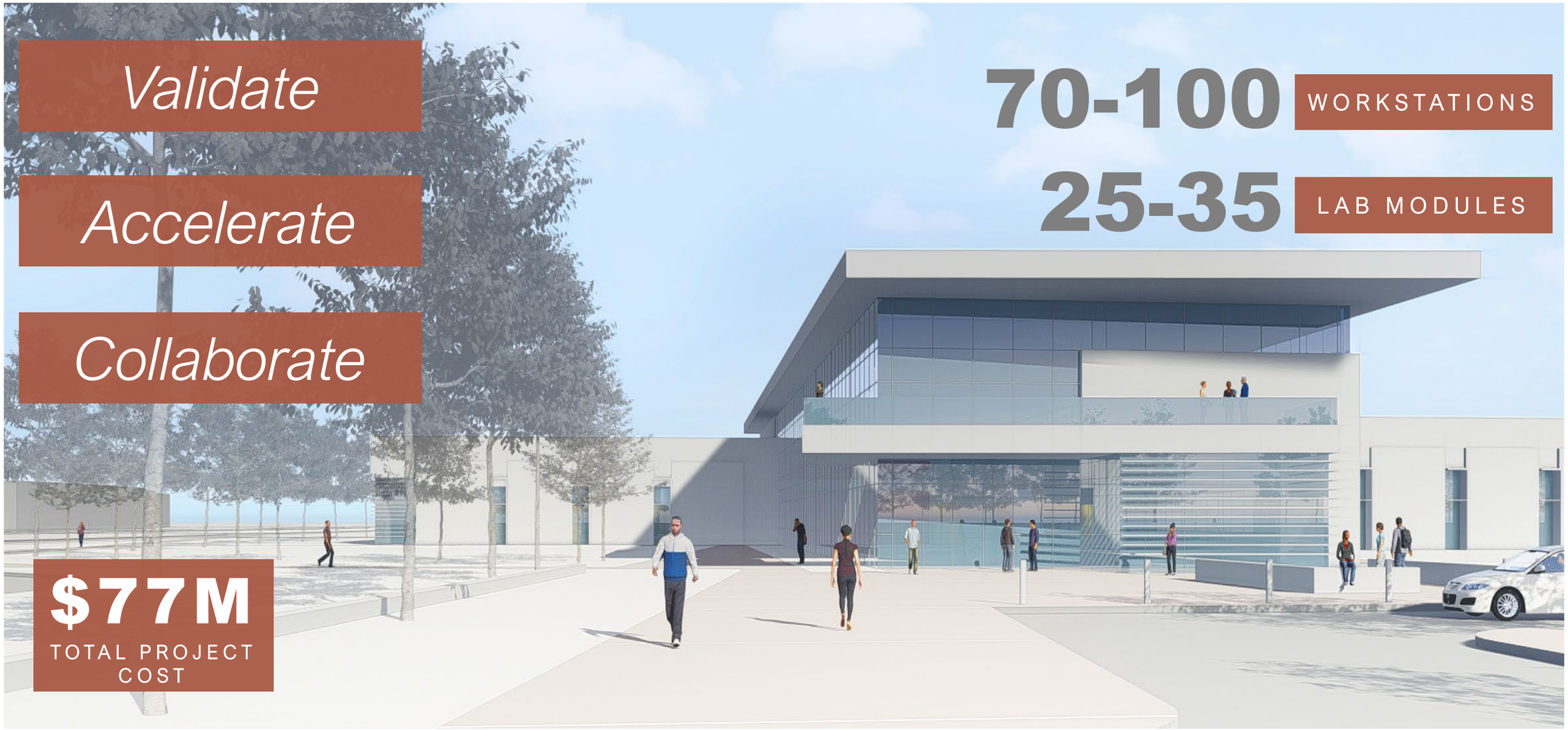
Planning is underway for the **Grid Storage Launchpad**



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Supporting our **neighbors** with **charitable giving** and ~30,000 staff volunteer hours per year

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Thank you

for your continued
leadership
and support

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