



Water Center of Excellence

Annual Progress Report

Reporting Period: Project Inception to June 30th, 2015

October 30th, 2015

Table of Contents

Project Purpose	2
Section I: Proposal Progress	2
1. Major Accomplishment 1:	2
2. Major Accomplishment 2:	2
3. Major Accomplishment 3:	2
4. Additional Accomplishments:	2
5. Commercialization / Partnering	3
6. Intellectual Property	3
NA.....	3
7. Programmatic & Project Changes	3
8. Looking Forward	3
Section II: Performance	4
Table 2: Progress Toward Metrics	4
Project Scorecard Narrative	5
Section III: Budget	6
Appendix 1 – Sales Pipeline	7

Project Purpose

The Nevada Center of Excellence (NvCOE) in Water aims to make Nevada a global water innovation hub and portal for investment by leveraging the state's leadership and expertise in water. The NvCOE business model involves a joint venture between academic, public, and private sectors. Each partner brings critical resources to create a mechanism to accelerate the economic cycle through applied research. These resources will lead to technology commercialization that will bring high-value, shared services to a broad range of public and private sector clients as well as an advanced workforce with core technology skills and domain expertise to meet employers' needs and attract technology-focused companies to Nevada. At the same time the NvCOE's efforts will enhance Nevada System of Higher Education's goal of strengthening public private partnerships to generate additional sources of nonfederal grants and contracts. By combining the domain expertise of the NSHE institutions, SNWA, and the LVGEA, the NvCOE will:

- Act as a portal for attracting, partnering with, and servicing national and international business in the water domain.
- Deliver high-value, shared services to public and private sector clients while building job skills and assisting DETR to grow Nevada's future workforce.
- Assist with commercializing and distributing the collective domain expertise in water sciences, technology, and management areas with NSHE & Water Utility Partners (SNWA, TMWA, etc).
- Provide additional sources of grants and contracts to NSHE faculty members

Section I: Proposal Progress

Since project inception, the NVCOE has made significant progress toward meeting proposed metrics. Major accomplishments from inception to June 30th, 2015 include:

1. Major Accomplishment 1:

Initiated Research and Demonstration Projects – The NVCOE initiated research and demonstration projects with 5 companies.

- Using the “Implan” method just one of these companies was estimated to generate \$1.8 million in state tax revenues this year.
- Generated an estimated 15 new high-tech positions
 - these high-wage technology jobs estimated to have annual salaries of \$60,000.00 (value of approximately \$900,000 in new wages).

2. Major Accomplishment 2:

Generated Additional Income: The NVCOE has generated an additional \$288,000 in additional income via grants, contracts and memberships.

3. Major Accomplishment 3:

Conducted two international recruiting trips – The NVCOE conducted two international recruiting trips to Singapore International Water Week and the Desert, Drylands, and Desertification Conference in Israel. As a result of these trips, the NVCOE initiated a pipeline of technology companies that have inquired about the NVCOE and its services.

4. Additional Accomplishments:

- Received a \$500,000 Knowledge Fund Grant in April, 2014.

- Appointed an Executive Director, Nathan S. Allen (formerly from the University of Arizona) in September 2014.
- Identified technology areas of interest
- Began strategic planning process
- Submitted over \$500,000 of new grant proposals
- Received more than \$200,000 of in-kind support

5. Commercialization / Partnering

Israeli Ministry of Economy- While attending the international conference on Deserts, Drylands, and Desertification in Israel in November 2014, the NvCOE staff met with 8 water technology companies who have interest in growing their business in Nevada. Recognizing the mutual benefits for both nations, additional meetings have taken place with the Israeli Ministry of Economy and the Israeli Consul General surrounding an agreement that will facilitate funding to companies to do business in Nevada.

Additional discussions regarding the efforts of the NVCOE have taken place with:

- Singapore Public Utilities Board
- National Institutes of Standards and Technology
- Water Research Foundation
- IBM
- AT&T

6. Intellectual Property

NA

7. Programmatic & Project Changes

NA this quarter


8. Looking Forward

Having gained valuable experience and a more refined perspective on the global water sector, the NVCOE will focus on pursuing opportunities to grow its team and to expand on commercialization and recruitment successes in municipal water to further:

- Organize statewide partners to establish test-sites for new water-technologies and innovation
- Establish a commercialization fund to support the demonstration and testing of compelling early stage technologies
- Develop a global network of partner agencies and large water users that also include the wastewater, industrial, agriculture, and power sectors.

Section II: Performance

Table 2: Progress Toward Metrics



Nevada Center of Excellence Progress Dashboard

Metrics as defined by Knowledge Fund	Current Status/Target Status		
	Actual as of 6/30/2015	Estimated By June 30, 2016	Estimated By June 30, 2017
Companies Moved to Nevada	2	10	15
Companies Supported	2		
Start-up Companies	-	-	-
Jobs Created	12	90	180
IP Licenses	-	-	-
IP Revenue	-	-	-
Grants Received	\$76,000	\$530,000	\$890,000
Sponsored Research:			
# of Contracts			
Total \$ Committed	\$224,351	\$210,000	\$250,000
Patents:			
Filed	0		
Awarded	0	4	6
Students placed with Companies	-		
Faculty Hired	2	4	2
Gifts/Donations/Memberships	\$20,000	\$725,000	\$1.025M
Student Internships	-		

Notes:

Color Key:

n/a

Too early to

Goal not met

Close to

Goal

Project Scorecard Narrative

Companies Moved to Nevada: Water Shark Systems, Echologics

Companies Supported: Innovyze, MultiSense

Start-up Companies:

Jobs Created: Projected number

IP Licenses:

IP Revenue:

Grants Received:

Sponsored Research:

Acqua Innovations- The Nevada Department of Employment, Training, and Rehabilitation provided the NVCOE \$150,000 to enable a collaborative pilot project for the removal of THMs from drinking water between Acqua and SNWA.

Solar City- \$74,351 to evaluate impacts of renewable energy on water use

Patents:

Students Placed with Companies:

Impact Faculty Hired: Hired Executive Director and Program Coordinator

Gifts/Donations:

Received a gift from the Las Vegas Global Economic Alliance

Student Internships:

Section III: Budget

[Knowledge Fund] Expenditures			
For Reporting Period Jul 1 – Sep 30, 2015			
	Estimate (Year 1)	Expenditures Inception to Date Apr 1, 2014 – Sep 30, 2015	Expenditures Current Period Jul 1-Sep 30, 2015
Total Salary & Benefits	\$ XXX,XXX	\$ 217,591	\$ 78,756
Equipment	\$ XX,XXX	\$ 0	\$ 0
Travel	\$ XX,XXX	\$ 10,011	\$ 3,615
Other Direct Costs	\$ XXX,XXX	\$ 312,984	\$ 5,147
Graduate Tuition	\$ X,XXX	\$ -	\$ -
Total	\$ X,XXX,XXX	\$ 540,586	\$ 87,518

[Add budget narrative related to project income]

Water Center of Excellence Income			
For Reporting Period Jul 1 – Sep 30, 2015			
	Estimate (Year 1)	Income Inception to Date April 1, 2014 – Sep 30, 2015	Income Current Period Jul 1-Sep 30, 2015
Grants / Contracts*	\$ -	\$ -	\$ -
Gifts	\$ -	\$ -	\$ -
Cont. ED/ Outreach	\$ -	\$ -	\$ -
Other Contributions*	\$ -	\$ -	\$ -
Knowledge Fund	\$ -	\$ 425,000	\$ -
Total	\$ X,XXX,XXX	\$ 425,000	\$ -

Section V: Appendix

Appendix 1 – Sales Pipeline

See Attached table