**REQUEST FOR PROPOSALS**

**CENTRAL IRRIGATION CONTROL SYSTEM**

**INTRODUCTION:**

Southern Oregon University (SOU) requests proposals from qualified distributors to supply parts and materials for a central control irrigation system upgrade on the SOU campus, located in Ashland, OR 97520. The central control system will be used to increase water efficiency and control.

**CENTRAL CONTROL REQUIREMENTS:**

Features

* (1) Central control computer program installed on the Grounds Superintendent’s Computer, (Located inside the Grounds Maintenance Office at 382 Wightman St. Ashland, OR 97520).
	+ This program must include including:
		- Must have flow sensing capabilities.
		- Ability to send text message alerts to cell phone or PDA’s.
		- Must be web system based.
		- Must be able to communicate to Master Control Clocks via Ethernet communication, already in place by the College.
* (1) Wireless communication I-pad for adjustments to the irrigation system in the field.
	+ This communication devise must be loaded with the same software as the main irrigation control computer.
	+ This devise must communicate through wireless communication (WI-FI) with Central Control Computer.
* (2) Master Control Clock.
	+ This Master Clock will need to communicate to Central Control Computer, (Located inside the Grounds Maintenance Office at 382 Wightman St. Ashland, OR 97520), by way of Ethernet connection. The Ethernet connection located at the Master Control Clocks will be provided by the “Client” or “Client’s Representative”.
	+ This Master Control Clock will need to be able to communicate to the Slave Control Clocks via Standard Station wire, 2-wire communication and by Wi-Fi wireless communication.
	+ The Master Control Clock will need to be able to simultaneously be able to control:
		- Slave Control Clocks with (48) stations of “Standard” 14-1 Station wire, through this Master Control Clock.
		- Slave Control Clocks with (48) stations of 2-Wire communication, through a Slave Control Clock.
		- Slave Control Clocks with (12) stations on each Control Clock with either Wi-Fi or RF Radio Control communication.
		- Must be expandable to 200 zones using 2-wire, conventional or wireless communication.
* (2) Slave Control Clocks.
	+ These Slave Clocks must be able to communicate to the Master Control Clock by 2-wire communication.
	+ Each of these Slave Control Clocks will need to be able to run (36) irrigation stations.
	+ These Slave Control Clocks must include wall mount cabinets.
* (2) Slave Control Clocks.
	+ These Slave Clocks must be able to communicate with the Master Control Clock via Wi-Fi or RF Radio controlled wireless communication.
	+ Each of these two Slave Control Clocks will need to be able to run (12) irrigation stations.
	+ These two Slave Control Clocks must include Stainless Steel Control Pedestal Mounts.
* (1000’) of “2-Wire Communication wire” per recommendation by the Central Control System manufacture requirements.
	+ Must be Polyethylene double jacketed or PVC double jacketed two-conductor solid core designed for direct burial.
* (6) Moisture Sensors, 2-wire communication compatible.
	+ Sensor must be self calibrating for all soil types and conditions.
	+ Sensor must be freeze/heat resistant.
	+ Sensor must not have any electrical contact with soil.
	+ Sensor must have the ability to measure soil temperature.
* (3) 2” Hydro-Meter.
	+ Must be 2-wire communication compatible.
	+ Must be able to sense and control water flow.
* (1) Handheld RF Remote Control unit.
* (4) Additional Universal Receiver Units for the above mentioned Handheld Remote Control Unit.
* (2) Surge protector/lightning arrestors.
	+ Must be fully sealed and submersible to protect all electronics.
	+ Must be able to communicate by 2-wire communication links to the Master Control Clock.
* All products listed above must be from the same manufacture.
* (50) DBR-6, DBG, or equivalent direct bury splice packets, made for full submersion and must effectively seal out moisture.

Warranty Requirements

* A minimum of (1) year warranty on all parts and supplies.

Safety Requirements

* Parts and supplies to be Underwriters Laboratories (UL) listed.
* Comply with all OR-OSHA requirements.

**PROJECT TIME LINE:**

April 11, 2012 RFP Release Date

April 16, 2012 Voluntary Pre-proposal Meeting on Site for Interested Firms at 9:00 AM

April 19, 2012 Written Questions due from Proposers by 4:00 PM

April 20, 2012 Owner's Written Response to Questions

**April 25, 2012 Proposals Due by 4:00 p.m.**

April 30, 2012 SOU Review of Proposals and Notice of Intent-to-Award

May 4, 2012 SOU to issue Purchase Order to successful proposer

May 18, 2012 Parts & supplies delivery complete

**SUBMITTAL REQUIREMENTS:**

Submit proposal on the Company’s standard proposal form signed by an officer of the company. **Attach complete specifications for the complete package of parts & supplies**. Submit proposals to Southern Oregon University, c/o Drew Gilliland, Director of Facilities Management & Planning, 351 Walker Avenue, Ashland OR 97520 by **4:00 p.m. on April 25, 2012**. Proposals may be emailed to: Gilliland@sou.edu.

**PROPOSAL EVALUATION:**

Proposals will be evaluated on a combination of cost, quality and required features as they fit into the campus master plan irrigation upgrades. Consideration will be given features such as flow sensing and management abilities, retro-fit capabilities, the ability to run conventional station wire, 2-wire and wireless communication from the Master Control Clocks.

**QUESTIONS FROM PROPOSERS**

Questions or requests for clarification from Proposers regarding this Request for Proposals shall be directed to Paul Winterbottom, Grounds Superintendent, 351 Walker Avenue, Ashland, OR 97520,

E-mail: winterbop@sou.edu by **4:00 PM April 19, 2012**. Any change or modification to the procurement process will be in the form of an addendum to this RFP. Addenda, if required, will be posted on the OUS website on April 20, 2012.

End of RFP