

B4. Web-based Data Delivery Systems

Program for Computer Science or Engineering students

We maintain network of remote field data collection stations around southwest Florida. Data from these stations get transferred to our office server by telemetry systems and then integrated to online databases. The same data gets also collected by our program participants visiting the field sites on regular basis, fixing the instrumentation bugs and downloading data from CR dataloggers to PDAs and laptops for backup and verification purposes.



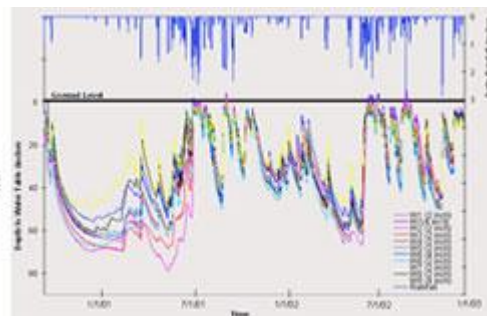
This assignment offers practical experience in developing web-based data delivery systems fed by low-cost telemetry system and scripting associated databases and websites.

List of main tasks:

- Study associated hardware to understand the telemetry feeding systems;
- Study associated software and programming languages (PC 208W, FTP applications, PHP, MySQL, Apache, Campbell Scientific DataLogger programming language etc.) to understand the telemetry processing systems;
- Design associated online databases structure fed by the telemetry;
- Develop scripts powering the databases systems websites and users interfaces;
- Test and debug newly developed websites;
- Develop intelligent systems, designated to automatically notify about actual situation of the telemetry system;
- Check data input and output in online databases to detect any malfunctions.

Analysis of Variance for P conc in tissue, using Adjusted SS						
Source	DF	Seq SS	Adj SS	Adj MS	F	P
Fertiliz	3	0.007542	0.008675	0.002892	1.40	0.194
P Level	1	0.016638	0.016638	0.016638	9.23	0.003
WTR	1	0.044204	0.044204	0.044204	24.51	0.000
Block	2	0.019115	0.019114	0.009557	5.30	0.007
Dates	1	0.045938	0.045938	0.045938	25.47	0.000
Error	87	0.156898	0.156898	0.001803		
Total	95	0.290333				

Analysis of Variance for Mass of P harvested, using Adjusted SS						
Source	DF	Seq SS	Adj SS	Adj MS	F	P
Fertiliz	3	35.277	36.895	12.278	1.61	0.193
P Level	1	19.515	19.515	19.515	2.56	0.113
WTR	1	80.597	80.997	80.997	10.63	0.002
Block	2	68.632	68.632	34.316	4.50	0.014
Dates	1	12.615	12.615	12.615	1.66	0.202
Error	87	662.986	662.986	7.621		
Total	95	880.022				



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Essentials:

Do I fit the position?

If you want to enhance your knowledge in data delivery systems, in building and maintaining databases and related websites, then this is the right position for you.

Do I necessarily need visa to participate in your program?

Yes, if you are a non-US student. However, keep in mind that you might be also coming under Visa Waiver Program, if you qualify for that. For details on this visa-free traveling option, refer to [here](#).

When can I come?

Any time, as our projects run all year round

How do I learn more or apply?

Submit On-line Application button at the bottom of this page.

I can't submit on line application. Can you help me?

If you face some technical difficulties, please [download](#) the Application form in Word, complete and email back to us with your CV and Cover Letter attached.