

2020 Virtual Data Academy and Conference

October 26 - November 12, 2020

The event designed for tribal professionals working with environmental data; for those seeking to leverage technology solutions to streamline their work and enhance their data management capacity.

[PRE-REGISTER HERE](#)

CONFERENCE	Time (Pacific)	Topic	Featured Activities
10/26/20 - Monday	12:00pm-1:00pm	Event Launch and Preview Sessions	Access to Peer Mentors Resources and Information Networking and Interaction Games and Prizes
10/27/20 - Tuesday	10:00am-11:30am	Welcoming Remarks and Introduction to the Exchange Network & Tribes	
	1:00pm-3:00pm	BREAK Exchange Network Tribal Projects Showcase	
10/28/20 - Wednesday	10:00am-3:30pm	Interactive Discussion Sessions & Closing Remarks	

ACADEMY	Time (Pacific)	Track A	Track B
Week 1			
11/2/20 - Monday	10:00am-2:00pm	Workshop Check-in and Prep Sessions	
<i>11/3/20 - Tuesday - ELECTION DAY - No sessions scheduled</i>			
11/4/20 - Wednesday	9:00am-11:00am	Data Carpentry-Part I	EECIP for Tribes
	12:00pm-2:00pm		
11/5/20 - Thursday	9:00am-11:00am	Data Carpentry-Part II	QREST Tool Demo & Beta Test
	12:00pm-2:00pm		
Week 2			
11/9/20 - Monday	9:00am-11:00am	Data Carpentry-Part III	ESRI-Mobile Field Data Tools-Part I
	12:00pm-2:00pm		
11/10/20 - Tuesday	9:00am-11:00am	Data Carpentry-Part IV	ESRI-Mobile Field Data Tools-Part II
	12:00pm-2:00pm		
<i>11/11/20 - Wednesday - VETERANS' DAY - No sessions scheduled</i>			
11/12/20 - Thursday	9:00am-11:00am	Mentoring & Sharing Sessions - tentative	
	12:00pm-2:00pm		

WORKSHOP NOTES AND DESCRIPTIONS

- ⇒ Attendees must pre-register for the event in order to register for the workshops.
- ⇒ Workshops are free, require advanced registration, and is limited to tribal employees only. Registrants must be approved to attend.
- ⇒ Workshop participants must have internet access to participate in live sessions.
- ⇒ You may register for more than one workshop session, however, if workshop schedules overlap you will be approved to attend only one.
- ⇒ ***Details for approved participants will be provided in advance of the workshop session to the email address used during registration.***

Data Carpentry – Ecology Curriculum (R emphasis)

November 4, 5, 9, and 10 | 9am–2pm Pacific (16 hours total)

Good data organization is the foundation of any research project. Most researchers have data in spreadsheets, so it is the place that many research projects start. We organize data in spreadsheets in the ways that we as humans want to work with the data, but computers require that data be organized in particular ways. In order to use tools that make computation more efficient, such as programming languages like R, we need to structure our data the way that computers need the data. Since this is where most research projects start, this is where we want to start too!

This workshop is intended for tribal professionals working with tabular data (data with rows and columns, e.g. Excel). We will clean data with OpenRefine, then teach you how to use R and RStudio to perform exploratory analyses and learn how to plot results graphically. The data used for this workshop is an ecology dataset (counts of animal species that were observed in different locations over time, along with information about their sex, weight, etc.). This data is easily understandable by non-ecologists and is considered Data Carpentries' most general-purpose workshop. There are no prerequisites for this workshop, and it is assumed that participants have no prior experience with the tools we will cover. Several work sessions are planned throughout the course to help reinforce the topics learned with the sample data – participants are encouraged to bring some of their own data to practice with during these sessions. Lessons will be taught using different open-source software tools that require downloading and advanced setup. Instructions will be provided to approved registrants.

The E-Enterprise Community Inventory Platform (EECIP): A Live Demo & Workshop for Tribes

Wednesday, November 4 | 9am–11am Pacific (2 hours)

Presented by the Environmental Council of the States (ECOS) and tribal users of the E-Enterprise Community Inventory Platform (EECIP), this workshop will introduce tribal participants to the EECIP and its use as an online user community and an inventory of efforts, tools, and services that state, tribal, and local agencies can use in their environmental program management. The inventory has a broad focus encompassing topics related to information technology, process improvement, and data exchange. While the resources in EECIP are especially rich in the areas of IT and process improvement, there is ample programmatic content and discussions between users can touch on any environmental theme.

Topics covered will include accessing EECIP and building a user profile, searching the EECIP database, and adding projects, discussion comments and other content to the EECIP. First-time users of EECIP must also register to access the platform (instructions provided with acceptance notification, for questions or assistance contact Owen McAleer omcaleer@ecos.org). Past users who are looking for a refresher are also invited to register.

>> [REGISTER FOR WORKSHOPS](#) <<

WORKSHOP DESCRIPTIONS

The Quality Review and Exchange System for Tribes (QREST)

Wednesday, November 5 | 9am—11am Pacific (2 hours)

The Quality Review and Exchange System for Tribes ([QREST](#)) is a free, open source tool that can automatically retrieve data from data loggers (manual import is also a feature), and store it in the cloud for tribal data quality review. QREST currently includes an integrated node-client for data submission to AirNow and EPA's Air Quality System (AQS), as well as data logger integration, automated hourly summary calculations, automated data validation and alerts, and various capabilities to enhance data quality. Publicly available maps and reports are also accessible through the QREST website.

This workshop is designed for tribal staff working with data and interested in exploring this new, open-source tool. The workshop will provide an overview and demonstration of the QREST tool and a discussion on the importance of data validation and review. Attendees will be able to practice the skills learned using their own sample data in a "sandbox" environment to set up a site and import data.

Introduction to ESRI Field Operations

Monday, November 9, and Tuesday, November 10 | 9am—11am and 12pm—2pm Pacific (8 hours total)

The goal of this workshop is to introduce WebGIS and Field Operations workflows in the ArcGIS online platform to inform field operations planning, data collection, management and visualization activities. Topics and skills to be covered include WebGIS, field operations, mobile data collection tools, data management, and solutions for working in connected and disconnected environments.

This workshop is designed for tribal professionals interested in ESRI Field Operations Workflows on and offline, leveraging the power of Web and Mobile GIS. Participants will be provided an ArcGIS Online training login to use during the workshop and for 48-hours after it ends to continue exploring and practicing skills learned. Example datasets will be provided for use during the workshop and students will learn how to save a copy of their projects to be accessed later. It is strongly recommended that all attendees complete the following online module prior to attending: [Getting Started with ArcGIS Online](#).

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Presented by the Institute for Tribal Environmental Professionals and the Tribal Governance Group
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