



# FREE Bioinformatic training for LSU and LBRN students!

## Live Orientation October 14, 2022

Learn More About the Upcoming LSU BIOMMED FALL PROGRAMS:

<http://edu.omicslogic.com/lsu-biommed>

Fill out this form <https://redcap.lbrn.lsu.edu/surveys/?s=PAKD937C7A> to get zoom meeting invitation and email notifications about the LSU BIOMMED Fall Bioinformatics & Data Science Programs.

- ✓ Complete Assignments at Your PaceOnline!
- ✓ Recorded Lectures and Written Courses!
- ✓ Integrated Online Environment for Practice and Research!
- ✓ Online Chat and/or Email Assistance
- ✓ Q&A sessions with Experienced ProgramMentors!
- ✓ Program Certificates from LSU and LBRN Upon Completion!

Introduction to Bioinformatics: Getting Started with Genomics, Transcriptomics and Metagenomics	Data Science: Data Visualization, Statistical Analysis & Machine Learning in R or Python	Bioinformatics in Biomedical Research
<b>BEGINNER</b>	<b>INTERMEDIATE</b>	<b>ADVANCED</b>
<p>Introduction to methods for Genomics, Metagenomics and Transcriptomics Data Analysis. Practical Analysis, Visualization and Biological Interpretation using a case study approach &amp; practical hands-on T-Bio server. We will also explore and practice R language to analyze different types of omics data.</p>	<p>Practical hands-on methods of data wrangling, visualization and machine learning for complex biomedical data &amp; demonstrate successes and limitations of conventional machine learning (ML) methods and deep learning (DL) using data from public repositories.</p>	<p>Explore how the various -omics data types generated in these studies can be analyzed &amp; integrated to understand the basic biology associated with communicable &amp; non-communicable diseases, diagnostic strategies &amp; treatment selection, development &amp; repurposing.</p>