

MILRD Virtual Training Projects

Professional Development for High School Teachers

About Us

[MILRD](#) is an education organization that offers **Virtual Training Projects (VTPs)** for professionals, trainees, and students (graduate to high school level) to cultivate advanced **computational biology, bioinformatics** & other **data science** skills and to learn about related occupations & industries. VTPs utilize published research and created in collaboration with scientists from academia, government and industry.

Virtual Training Projects (VTPs)

Each VTP is a **virtual experience**, during which participants analyze and reproduce the results from a published research paper. During the project, participants complete an introductory session, have two group cohort meetings and complete independent work. Throughout the experience, participants receive unlimited 1-on-1 support and attention from cohort mentors, all experts in the field. VTPs can be completed over 1 or 2 weeks to accommodate scheduling constraints.

VTP Structure



Note: VTPs can be spread across two weeks (4-10 hours per week) to accommodate students with substantial courseloads or scheduling constraints.

Learn Biomedicine + Data Science Skills

VTPs cover a wide variety of topics **at the cutting edge of biomedicine and data science** using recently published datasets as a guide. Example topics include metagenomics, single-cell transcriptomics, characterising COVID-19 variants, and more. Descriptions of our **current and upcoming VTPs** can be found [here](#).

Teachers can enroll in VTPs as a professional development activity and then teach components of the learned content to their students: all VTPs use programming languages, and data analysis/visualization tools, and datasets that are open source.

Ten Professional Development Hours

Teachers who complete VTPs have **10 hours** of scheduled meetings and interactions with mentors & participants over the course of the VTP on average. All other work is completed independently. Teachers receive a certificate of completion upon successfully completing a VTP.

Unique Approach

MILRD's unique model allows us to mix teachers with other professionals, trainees, and students (graduate to high school level) in the same cohort to enable group learning, professional networking, and

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skill development—without leaving beginners behind or holding back folks with more expertise.

A summary of our participant breakdown can be found on our website [here](#).

MILRD Provides

- Unlimited support from expert mentors
- Access to all required analysis tools and software
- Access to all required source data
- Optional pre-VTP preparation
- Certificate of Completion

Participant Provides

- A computer running Windows, MacOS or Linux
- A stable internet connection
- Google Chrome, Safari, Firefox, or Edge web browser

Pricing

Enrollment fees can be found on our website [here](#).

Sign Up

Contact info@milrd.org with questions and to enroll student groups in VTPs.