

Opportunity Title: EPA Information Technology & Data Science Internship

Opportunity Reference Code: EPA-OTAQ-2021-06

Organization U.S. Environmental Protection Agency (EPA)

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A complete application consists of:

- An application
- Transcript(s) – For this opportunity, an unofficial transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. All transcripts must be in English or include an official English translation. Click [here](#) for detailed information about transcripts.
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- Two educational or professional recommendations

All documents must be in English or include an official English translation.

Application Deadline 7/7/2021 3:00:00 PM Eastern Time Zone

Description ***Applications may be reviewed on a rolling-basis and this posting could close before the deadline.** Click [here](#) for information about the selection process.

EPA Office/Lab and Location: A research training opportunity is available at the Environmental Protection Agency's (EPA) Office of Transportation and Air Quality (OTAQ), National Vehicle and Fuel Emissions Laboratory (NVFEL) located in Ann Arbor, Michigan.

During COVID-19 restrictions, the participant will be allowed to perform their research remotely. However, when the facility reopens, the participant will be required to perform their research at NVFEL, and telework will not be allowed except in special situations, such as closure due to extreme weather.

Research Project: The National Vehicle and Fuel Emissions Laboratory (NVFEL), is seeking an undergraduate computer science or Information Technology student with desires, familiarity and/or experience in Information Technology or Data Science.

The participant will research IT platforms, IT preservation methods, data computation methods, large scale data storage, and massive data repositories in discovering the importance information technology and science play in environmental data modeling and other environmental data analysis. The participant will perform research alongside computer scientists, information technologists, data modelers, and other professionals in the fields of Information Technology, Information System Services and Data Science/Modeling. An in-depth view of a National Laboratory's technologies and complex technology platforms will be provided to the participant. The participant will be provided research and



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development equipment to aid in self-learning through advancing the understanding of discovered technologies, methods, configurations and information solutions.

Learning Objectives: The participant will gain a deep understanding of IT technologies, Data Science structures, analytical platforms and large scale data computation and repositories, with an emphasis on IT infrastructure research and development and next-generation Data Science models and platform constructions. The participant will further enhance their understanding of Information Technology and the value gained through innovation and planning. At the conclusion of the project, the participant will realize how creating next-generation IT infrastructures and Data Science platforms for collecting what appears to be insignificant data, when analyzed deeply using in-depth data science tools on a properly designed IT infrastructure and Data Science platform, can actually change the air we breathe.

Mentor(s): The mentor for this opportunity is Fidel Galano (galano.fidel@epa.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: June 7, 2021. All start dates are flexible and vary depending on numerous factors. Click [here](#) for detailed information about start dates.

Appointment Length: The appointment will initially be for one year and may be renewed four additional years upon EPA recommendation and subject to availability of funding.

Level of Participation: The appointment is full-time.

Participant Stipend: The participant will receive a monthly stipend commensurate with educational level and experience. Click [here](#) for detailed information about full-time stipends.

EPA Security Clearance: Completion of a successful background investigation by the Office of Personnel Management (OPM) is required for an applicant to be on-boarded at EPA.

ORISE Information: This program, administered by ORAU through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and EPA. Participants do not become employees of EPA, DOE or the program administrator, and there are no employment-related benefits. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE.

Questions: Please see the [FAQ section](#) of our website. After reading, if you have additional questions about the application process please email ORISE.EPA.REG@orau.org and include the reference code for this opportunity.

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Qualifications The qualified candidate should be currently pursuing or have received a bachelor's degree in one of the relevant fields. Degree must have been received within the past five years.

Preferred skills:

- Introductory level knowledge of software development
- Basic understanding of computer systems and hardware
- Knowledge of research methods and sources

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Bachelor's Degree received within the last 60 months or currently pursuing.
 - **Discipline(s):**
 - **Computer, Information, and Data Sciences** ([17](#) 👁)
 - **Engineering** ([27](#) 👁)
 - **Mathematics and Statistics** ([10](#) 👁)
 - **Physics** ([16](#) 👁)
 - **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).