

Position Description: NIST PREP Student – Software Developer Position

The Applied Economics Office (AEO) of the Engineering Laboratory at the National Institute of Standards of Technology (NIST) anticipates the need for an **Undergraduate Student in computer science or a related field** to develop server-side code for web applications that enable complex economic analysis.

The position would be supported through the NIST Professional Research Experience Program (PREP) (<https://www.nist.gov/iaao/academic-affairs-office/nist-professional-research-experience-program-prep>).

Proposed start date: negotiable

Proposed duration: 1 year with potential for extension

Position Location: Telework

General Duties and Responsibilities

Responsibilities include, but are not limited to:

- Develop server-side elements including algorithms & data storage for web applications
- Develop a library of economic analysis calculations
- Assist with special software development projects as assigned

Requirements

- Degree in Computer science, Software engineering, Web development, Programming or related field.
- Python or Java and knowledge of open source databases, cloud storage, REST API, Git
- HTML, JavaScript, CSS, JSON, Flask or another web framework a plus
- Google Analytics and data visualization experience a plus
- Logical thinking and Problem solving
- Patience and Attention to detail
- Excellent writing, code documentation and testing skills

About AEO

The AEO (Applied Economics Office), a part of the Engineering Laboratory (EL) at NIST, provides economic products and services through research and consulting to industry and government agencies in support of productivity enhancement, economic growth, and international competitiveness, with a focus on improving the life-cycle quality and economy of constructed facilities and manufacturing processes that support social and economic functions.

The AEO is integrated within EL's major research thrusts: sustainability, energy conservation, community resilience planning, manufacturing, fire, smart grid, building construction, and safety. The AEO delivers high quality research and tool development that informs and assists stakeholders in their decision-making processes.

Interested developers should email Joshua Kneifel at joshua.kneifel@nist.gov, with "AEO PREP Software Developer" in the subject line with a recent curriculum vitae (CV) or resume.