Greetings,

Pacific Northwest National Laboratory (PNNL) is seeking ambitious, high caliber candidates for assignments within the National Security Internship Program (NSIP). We ask that you share this information with your department and any interested applicants.

PNNL is hosting its 5th Annual Summer Biosurveillance Web-based Application Development Competition to foster novel and creative approaches for enhanced biosurveillance. Intern teams, comprised of Public Health/Biostatisticians, computer software engineers/scientists, and user design students, will be responsible for identifying the target user (surveillance analyst) and usage scenarios, in addition to designing and developing the application. Interns will be encouraged to leverage and adapt existing algorithms, models, tools, and other methods to support the analytic needs of the target users. Over the course of the 10-week program, each intern team will develop and produce a fully functional disease surveillance-related web application. The experience will include mentorship from various field-related experts along with networking and exposure to working in a national laboratory environment with governmental sponsors. At the conclusion of the program, a panel of domain experts will judge the intern apps and the winners will be awarded with cash bonuses. The competition will be managed to provide both a positive educational experience for the interns as well as a high-quality software product.

PNNL will organize and provide support and guidance for a solid design and implementation process. Teams will be chosen to contain a suitable representation of experience, including software engineering, human-computer interaction, social media, epidemiology, biosurveillance, and mathematical modeling and simulation. Additionally, interns will exhibit a strong desire to work collaboratively in a team and the ability to effectively communicate and present their ideas.

Applications are accepted here:

- **Master’s intern** – Biosurveillance App Development Competition (NSIP):
  [https://pnnl.jibeapply.com/jobs/306926/Masters+Intern+-+Biosurveillance+App+Development+Competition+(NSIP)]

- **PhD intern** – Biosurveillance App Development Competition (NSIP):
  [https://pnnl.jibeapply.com/jobs/306927/PhD+Intern+-+Biosurveillance+Web-App+Development+Competition+(NSIP)?lang=en-US]

Some information on previous competitions can be found here:

- [http://europepmc.org/articles/pmc5462221](http://europepmc.org/articles/pmc5462221)
- [https://www.youtube.com/watch?v=HVly1bWt29Y](https://www.youtube.com/watch?v=HVly1bWt29Y)
- [http://news.iupui.edu/releases/2015/02/informatics-student-app-flu.shtml](http://news.iupui.edu/releases/2015/02/informatics-student-app-flu.shtml)
Positions are located in Richland, WA with the competition beginning on June 11, 2018 (must be able to start on this date).

**Minimum Qualifications**
Candidates must be matriculated/enrolled in a PhD or Master's program at an accredited college or university. Minimum GPA of 3.3 is required.

**Preferred Qualifications**
Applicants with experience in one or more of these areas, or closely related topics, are encouraged to apply:
- Web application development
- Software Engineering/ Computer Science
- Epidemiology / Public Health / BioStatistics
- User Experience Design

Please feel free to reach out to me if there are additional questions.

Sincerely,

Lauren Charles, DVM, PhD
Senior Data Scientist, Pacific Northwest National Laboratory
Research Professor, Paul G. Allen School for Global Animal Health

Lauren.Charles@pnnl.gov | Tel: (509) 372-4976
Collaboration | Creativity | Courage | Integrity | Impact