

**Post-Doctoral Fellow
Worcester Polytechnic Institute**

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Posted Aug. 15, 2019, removed Sep. 17, 2019

Job Title	Post-Doctoral Fellow
Department	
Institution	Worcester Polytechnic Institute Worcester, Massachusetts
Date Posted	Aug. 15, 2019
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Computer/Information Sciences
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Job Description

JOB TITLE

Post-Doctoral Fellow

LOCATION

Worcester

DEPARTMENT NAME

Computer Science III

DIVISION NAME

Worcester Polytechnic Institute - WPI

JOB DESCRIPTION SUMMARY

We seek to hire a post-doctoral researcher to join our research team, which includes faculty, several

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graduate students and a software engineer, for the DARPA-sponsored Warfighter Analytics using Smartphones for Health (WASH) project.

Warfighters face an increased exposure to ailments such as Traumatic Brain Injury (TBI) and infectious diseases. Digital biomarkers are smartphone-sensible user behaviors that can reliably indicate the health status, ailment symptoms and condition of the smartphone user. For example, an ailing smartphone user may exhibit reduced daily step counts, slurred speech, or an increase in sedentary activity states during their day.

Our team is researching and developing machine/deep learning algorithms that synthesize reliable smartphone biomarkers for the detection of ailments. Continuous, real-time assessment of TBI and infectious diseases afflicting warfighters will be enabled by mining data unobtrusively captured from smartphone sensors. Our resulting smartphone biomarker detector will be tested and ultimately deployed on a cohort of millions of smart-phone users.

JOB DESCRIPTION

Responsibilities:

In addition to original research resulting in quality publications on the above topics, the postdoctoral scholar will also assist in managing the project, directing the research of undergraduate and graduate students, coordinating research across the team, and preparing project deliverables for the sponsor.

Research funding for the post-doctoral position is available for 18 months; with a likely extension for a total of 4 years.

Requirements:

The ideal candidate will have a PhD in computer science or closely related field, with demonstrated background in statistical analysis, signal processing, machine learning and/or deep learning. Specific research tasks include:

- * Feature engineering of smartphone sensor data
- * Statistical modeling of personalized behavior typical of a smartphone user
- * Detection of higher-order activity states from low-level signals
- * Machine/Deep learning of robust outliers or deviations from normal, healthy behavior
- * Inference of classes of diseases affecting a smartphone user
- * Empirical study and evaluation of robustness of biomarker detectors

An interest in interdisciplinary research, in particular, in digital health, and a proven track record of high-quality research and academic excellence are expected. Experience analyzing smartphone sensor signals is desirable but not a must. Excellent written and verbal communication in English are required.

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Founded in 1865, WPI is one of the nation's first technological universities. A highly selective private university located within an hour of Boston, WPI is consistently ranked among the top 70 research institutions by US News & World Report. The university is home to an innovative and intensive project-based curriculum that empowers students with the knowledge and skills to address real world problems around the globe, an approach repeatedly cited for excellence by The Fiske Guide to Colleges and The Princeton Review. Located in the heart of New England, WPI is surrounded by cultural and recreational opportunities. The UMass Medical Center, a large number of technology companies and many colleges and universities are located in the immediate area making it ideal for two-career families.

Applications will be considered until the position is filled.

To apply, please send a cover letter, CV, a statement of research interests, and the names and contact information of three references, to:

Professor Emmanuel Agu

([url=https://apptrkr.com/get_redirect.php?id=1576142&targetURL=mailto:emmanuel@cs.wpi.edu](https://apptrkr.com/get_redirect.php?id=1576142&targetURL=mailto:emmanuel@cs.wpi.edu))emmanuel@

Computer Science Department

Worcester Polytechnic Institute

Worcester, MA 01609

FLSA STATUS

United States of America (Exempt)

WPI is an Equal Opportunity Employer. All qualified candidates will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, national origin, veteran status, or disability. We are seeking individuals with diverse backgrounds and experiences who will contribute to a culture of creativity and collaboration, inclusion, problem solving and change making.

To apply, visit: ([url=https://apptrkr.com/1576142](https://apptrkr.com/1576142))https://wpi.wd5.myworkdayjobs.com/en-US/WPI_External_Career_Site/job/Worcester/Post-Doctoral-Fellow_R0000129

About WPI

WPI is a vibrant, active, and diverse community of extraordinary students, world-renowned faculty, and state of the art research facilities. At WPI, we have competitive and comprehensive benefits, including health insurance, long-term care, retirement, tuition assistance, flexible spending accounts, work-life balance and much more.

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Diversity & Inclusion at WPI

WPI is committed to creating an inclusive workplace where everyone feels valued and respected; a place where every student, faculty and staff member can be themselves, so that they can study, live, and work comfortably, to reach their full potential, and make meaningful contributions in order to meet departmental and institutional goals. WPI thrives on innovative practice and welcomes diverse perspectives, insight, and people from diverse lived experiences, to enhance the community environment and propel the institution to the next level in a competitive, global marketplace.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Please see the job description for contact details pertaining to this university job announcement.