



## Wearable Research for In-service STEM Teachers (WRIST)

NSF Research Experience for Teachers (RET)

### Summary

The objective of the WRIST RET site program is to engage high school computing teachers in cutting-edge research projects in wearable computing and related areas.

- Six-week immersive summer research experience under direct faculty mentorship
- Research in one of the following areas while developing teaching materials for class:
  - Activity Recognition Using a Wrist Accelerometer
  - Software Engineering Principles for Wearable Application Development
  - Pattern Extractor on Wearables
  - Wearables in Fashion for Introductory Computing
- One-day intensive Spring workshop

### Schedule at a Glance

Summer Component (June 9 – Aug 3)



*Mandatory Attendance required*       *Choose 20 working days*

- Friday Meetings: June 9 (RET kick-off meeting), June 30, July 21 (Progress report meetings).
- Computational Thinking Workshop: June 13 - June 16
- Aug 2 & 3: RET Project final presentation/demonstration
- Research with Faculty Mentors: the participating teachers can choose 20 working days

Spring Workshop (Spring 2018)

- The summer research participants will present, exchange, and share their research experience and teaching materials. The curriculum modules developed during the summer will be distributed for other schools to adopt.

### Compensation

Participating teachers will receive stipends totaling an amount of \$6,000 for completing all summer activities and \$1,000 for the spring workshop.

### Application: Application deadline is Apr 14, 2017

Applications will be reviewed on a rolling basis starting March 15, 2017.

#### Eligibility

- High School Computer Science or Information Technology teacher from Omaha Area
- Full-time commitment of 40 hours per week to the six-week summer research program and one-day spring workshop

For inquiries or to notify us of your interest, please contact:

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